

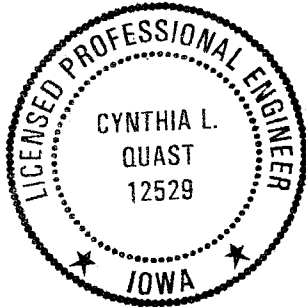
Phase II Site Assessment
Former Chamberlain Manufacturing Property
January 2005

Howard R. Green Company
Project No. 722930J23.

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER CHAMBERLAIN MANUFACTURING PROPERTY
550 ESTHER STREET
PARCEL ID 8913-13-176-002
WATERLOO, IOWA

JANUARY 2005





I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Cynthia L. Quast Date: *1/24/05*
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My renewal date is: December 31, 2005

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Entire Bound Document

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1.0 EXECUTIVE SUMMARY

The City of Waterloo has identified the former Chamberlain Manufacturing site located at 550 Esther Street in Waterloo, Iowa as a property it might purchase for redevelopment. The property is the current location of Atlas Warehouse, LLC. It is the intent of the City to assess the property to determine the viability for redevelopment without consideration of remedy for environmental impairment. The property is a Brownfields Project Area in itself and was assessed with funding from an EPA Brownfields Assessment Grant.

The Phase I Environmental Site Assessment (ESA) of the property was conducted in February. The subject site itself is a recognized environmental condition (REC) with numerous areas of concern (AOCs) due to the historical uses and material storage at the site. The processes used, material stored, and waste generated to manufacture washer wringers, aluminum awnings, munitions and ordnance present a potential for environmental contamination.

The results of the database searches and historical research identified three properties with RECs in the ASTM search distances from the subject site. None of these three sites have the potential to impact the site because of their location downgradient, or across Virden Creek from the subject site.

Based on the records review, interviews, on-site inspection, and historic information available at the time of the Phase I ESA, Howard R. Green Company recommended the following actions:

- 1) Retain a licensed radiation consultant to perform a radiation survey on areas where radioactive materials were stored or handled.
- 2) Perform a survey with Ground Penetrating Radar (GPR) to identify the location of the buried drums.
- 3) Perform an asbestos survey of building materials.
- 4) Perform an inventory, including sampling, of on-site drums.
- 5) Collect samples in AOCs at the subject site per the table included in the Phase I ESA¹.

This Phase II ESA findings and recommendations are summarized as follows:

Radiological Survey

A radiological survey conducted in accordance the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) did not identify any areas with radiological contamination greater than twice background. The results indicate that no radiological contamination is present at the site and no further action is required based on radiological concerns.

¹ Howard R. Green Company, Phase I Environmental Site Assessment, Former Chamberlain Manufacturing Property, May 2004.

Geophysical Investigation

Twelve anomalies of unknown origin were identified by the geophysical investigation. Five of the 12 are small, having dimensions of approximately five feet by three feet. Three of the anomalies have a broad profile much like a large underground storage tank (UST) or pipe. Around these three are smaller profiles that could possibly represent buried drums. Investigation of the areas of potentially buried drums and USTs should be conducted.

Soil and Groundwater Assessment

The Phase II ESA identified widespread groundwater contamination from chlorinated solvents and localized groundwater contamination from total extractable hydrocarbons (TEH). At a minimum, additional groundwater investigation is required to determine the extent of the chlorinated solvent contamination. This should be followed by a risk evaluation.

AOCs 1-1, 1-11, 1-15, 1-16, 3-12, 4-22, 4-24, 4-27, 4-28 and 4-29 exceeded statewide standards for soil. Shallow, Range 1, soil is impacted above site-specific residential standards in AOCs 1-11, 1-16, 3-12, 4-22, 4-28 and 4-29. Deeper, Range 2, soil is impacted above site-specific residential standards in AOCs 1-15 and 4-24.

Other Samples

Water from one of the outfalls to Virden Creek has lead concentrations exceeding surface water criteria for a Class A1 and Class B(WW) stream.

Sediment from outfalls to Virden Creek has heavy metals and SVOCs in concentrations that exceed statewide standards. Sediment collected from facility floor drains has concentrations of metals and PCBs exceeding statewide standards. Sediment collected from sumps has metals in concentrations exceeding statewide standards.

Sediment should be analyzed for the leachability of the contaminants and then properly disposed.

2.0 INTRODUCTION

The intent of this Phase II ESA is to assist the City in evaluating if the RECs and AOCs identified in the Phase I ESA are actual or perceived environmental impairments associated with the subject site. The goal of the Chamberlain project is to eliminate false perceptions and gather data that will allow the City and community to plan and manage this potentially environmentally impaired property. In doing so, the City will be able to obtain its goal under the EPA Brownfields Initiative Cooperative Agreement to identify the economical and technical viability of redevelopment. In addition, should the City pursue acquisition of the site, the City will meet the requirements of the bona fide prospective purchaser provisions of the Comprehensive Environmental Response and Liability Act's (CERCLA) innocent landowner defense, and the contiguous property owner and all appropriate inquiry due diligence under the Brownfields Revitalization Act.

2.1 Purpose

The City of Waterloo applied for and received an EPA Brownfields Assessment Grant for the former Chamber Manufacturing property. The property is described by the Black Hawk County Assessor's office as Parcel ID 8913-13-176-002 with a legal description as follows:

A parcel of land located in parts of Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys described as follows: Beginning at the NW corner of Lot 16 Block 10, said Logan Dale Heights, then E along southerly line of Anita St a distance of 138 feet then N a distance of 547.46 feet to NW corner of Lot 1 Block 1 said Logan Dale Heights then E a distance of 178.05 feet to NW corner Block 10 said Enterprise Place then N a distance of 50 feet to the SW corner of Block 9 said Enterprise Place then E along northerly line of vacant Louise St. a distance of 324 feet to SW corner block 8 said Enterprise Place then S a distance of 50 feet to NW corner of Block 11 said Enterprise Place then E along the southerly line of Louise St. a distance of 99.88 feet then S a distance of 191.30 feet then S 37° 41' 53" E a distance of 380.80 feet to SW corner of Block 12 said Enterprise Place then S a distance of 204 feet to northerly line of Block 16 said Enterprise Place then S 32° 37' 07" W a distance of 492.37 feet then S 14° 45' 05" E a distance of 239.21 feet then N 76° 47' 05" W a distance of 14.81 feet then S 10° 43' 42" W a distance of 40 feet to the northerly line of Waterloo RR Company then westerly along a curve concave southerly and having a radius of 1838.82 feet and long chord bearing north 84° 36' 33" W a distance of 342.55 feet then W along said northerly ROW line a distance of 399.21 feet to easterly line of E. 4th St. then N along the easterly line of E. 4th St. a distance of 188.92 feet to the NW corner of Lot 9 Block 11 said Logan Dale Heights then E a distance of 119.54 feet to the NE corner of Lot 9 Block 11 said Logan Dale Heights then south a distance of 149.89 feet to the SE corner of Lot 7 Block 11 said Logan Dale Heights then E a distance of 14 feet to the SW corner of Lot 6 Block 11 said Logan Dale Heights then N a distance of 359.80 feet to the SW corner of Lot 8 Block 10 said Logan Dale Heights then W a distance of 14 feet to the SE corner of Lot 9 Block 10 said Logan Dale Heights then N along the easterly line of Lot numbers 9 and 10 Block 10 said Logan Dale Heights a distance of 65.03 feet

then W a distance of 121.40 feet to the easterly line of E. 4th St. then N along the easterly line of E 4th St. a distance of 335.28 feet to the point of beginning and also Lot 12 Block 11 said Logan Dale Heights.

The EPA grants provide a mechanism for the City to supplement existing efforts to evaluate parcels for redevelopment, stimulate economic reuse of the area, and improve the quality of life for the residents of the area.

2.2 Problem Statement

The Project is evaluating blighted and underutilized properties owned by the City and others with the intent of encouraging redevelopment. The Brownfields Cooperative Agreement Plan calls for collection of data through EPA federal funding with this information being subject to specific requirements of quality assurance and control

Project quality assurance and quality control objectives were identified by the development and implementation of a comprehensive generic Quality Assurance Project Plan (QAPP). Appropriate elements of the QAPP are activated for use at a specific property through use of the Property-Specific Sampling and Analysis Checklist (PSSAC).

The State of Iowa has in place through the Iowa Administrative Codes (IAC), programs for evaluation of environmental impairment. These involve risk-based corrective action through the voluntary Land Recycling Program (LRP) or an agreed upon cleanup program using LRP criteria outside the program enrollment. For this Project, soil and groundwater evaluations for public risk will be conducted according to IAC 567-137(457B) Chapter 137: Iowa Land Recycling Program and Statewide Response Action Standards (IAC137).

It is the purpose of the QAPP to provide a method of decision and provides data that sufficiently balances the data quantity and quality under the Grants with that required by state programs. This must be limited funds on the maximum number of project sites to provide sufficient value to the City to be meaningful for planning.

2.3 Background

The Iowa LRP targets affected areas defined by previous assessment, not necessarily entire properties. The sampling requirements are intended to address only impacted portions of a property. The brownfields project decision regarding feasibility for redevelopment is a preliminary screening process, and does not require a final or complete IAC 137 demonstration of compliance. This is generally consistent with the IDNR's own approach of using the IAC 137 statewide standards as a screening process for unregulated releases or IAC 137 applicant sites to determine if properties are appropriate for enrollment in the LRP.

Howard R. Green Company conducted the Brownfields Phase I for the former Chamberlain Manufacturing property. Multiple industrial lots comprise the subject site and total 22.8 acres. Currently, the site is unoccupied and contains multiple single-story and two-story industrial buildings and warehouses constructed between 1919 and the early 1990s. Previous industrial businesses are tabulated below:

Owner	Date	Products Manufactured
Floyd Chamberlain Waterloo, IA As of 1929, Chamberlain Corp.	1919-1934	Metal washer wringers
American Wringers Co. Woonsocket, RI	1934-1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Waterloo Register Waterloo, IA (Property east of creek)	1938	Unknown
Ambrook Industries Location unknown	1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Chamberlain Manufacturing Corp. Location unknown	1953-1978	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Duchossois Industries, Inc. Elmhurst, IL	1978-1996	Projectile metal parts

According to the current owner, Ron Vose, the site was purchased in 1996 by Atlas Warehouse, LLC to use for storage for parts for John Deere. John Deere later moved its warehousing contract out of state.

The visual inspection of the property was conducted on February 9 and 11, 2004, guided by Gary Wilcox of the Black Hawk County Solid Waste Commission and former Chamberlain Manufacturing Corporation employee. The subject site itself is a REC with numerous AOCs due to the historical uses and material storage at the site. The processes used, material stored, and waste generated to manufacture washer wringers, aluminum awnings, munitions and ordnance present a potential for environmental contamination.

The results of the database searches and historical research identified three properties with RECs in the ASTM search distances from the subject site. None of these three sites have the potential to impact to impact the site because of their location downgradient, or across Virden Creek from the subject site.

Based on the records review, interviews, on-site inspection, and historic information available at the time of this Phase I ESA, Howard R. Green Company recommended the following actions:

- 1) Retain a licensed radiation consultant to perform a radiation survey on areas where radioactive materials were stored or handled.
- 2) Perform a survey with GPR to identify the location of the buried drums.
- 3) Perform an asbestos survey of building materials.
- 4) Perform an inventory, including sampling, of on-site drums.

- 5) Collect samples in AOCs at the subject site per the table included in the Phase I ESA.

Because of the large number of AOCs and the limited resources, the PSSAC was developed by prioritizing the potential contaminants in the facility by health risk, acreage potentially impacted by each contaminant and the cost per analysis. This PSSAC is in Appendix A. Based on the prioritization, maximum allowable costs were assigned to each contaminant to be investigated. The costs were used as input in Visual Sampling Plan to determine the number of samples and identify sample locations in each potentially impacted area for each contaminant.

The prioritization left several AOCs that were not investigated. Only the AOCs in Site Areas 1 through 4 were included in this investigation. (Refer to the Site Plan in Appendix B.) In addition, samples were not analyzed for all contaminants associated with an AOC, but one or two contaminants that would be indicators of a release in that area.

Neither the drum inventory and sampling nor the asbestos survey was included in this Phase II ESA. When additional funding is made available, a second sampling design will be submitted if necessary.

Howard R. Green Company considered the results of Phase II ESA within the context of Phase II ESA decision logic to produce a hybrid investigation approach to meet the needs of the City within the structure or data quality needs and limited funding. Howard R. Green Company next worked through the subject site using logic assistance from the Quality Assurance Division (QAD) of the U.S. EPA. With the Phase II Data Quality Objective (DQO) and generic QAPP, Howard R. Green Company provides a balanced approach for agency review.

Howard R. Green Company considered the use of a number of alternative sampling and assessment approaches used on other projects, including mobile field laboratories and direct-push technology. However, in view of probable end use under IAC 137, fixed laboratory analyses and groundwater monitoring wells were required.

2.4 Principal User

The principle end user of Project information will be the City of Waterloo. Further reliance by others will be beyond the scope of the EPA Brownfields Assessment Cooperative Agreement.

The City will make primary use of the data to aid in decision-making relative to considering properties for redevelopment. The data will not be the sole nor final determinant in the positive or negative determination of feasibility of a property for redevelopment. It is anticipated that a Phase II ESA evaluation done for preliminary assessment and feasibility for a property will be used as the basis for potential secondary phases of investigation and subsequent remedial actions. Funding for subsequent investigation and remediation by the City or other entities could be external to federal programs.

3.0 SITE CHARACTERISTICS

The former Chamberlain Manufacturing property, subject site, is located at 550 Esther Street in the City of Waterloo, Black Hawk County, Iowa. The subject site is described by the Davenport City Assessor's office as Parcel ID 8913-13-176-002 and located in the SW¼ of Section 13, Township 89 North, Range 13 West in Black Hawk County, Iowa. The deed is in the name of Atlas Warehouse, LLC (See Figure 1 in Appendix B for the site location).

3.1 Phase I Environmental Site Assessment

The Sanborn Fire Insurance Maps of the City show the Chamberlain site was industrially developed with residential lots, some with residences lining both sides of E. 4th Street west of the facility. Undeveloped residential lots are also present on the north side of the facility, which is currently part of Gates Park. Electroplating, assembly, warehouse, machine shop, and parts washing areas at Chamberlain are clearly marked on the map. The Sanborn map indicates the facility was heated with steam and powered with electricity.

Multiple single and two-story buildings occupy the site and were numbered 1 through 22 by Chamberlain Manufacturing. The buildings were gradually added between 1919 and 1994. The total square footage is approximately 500,000 and was protected by a wet sprinkler system. East of the buildings along E. 4th Street is a paved parking area. The north part of the property is accessed through a gate on Louise Street. This area is paved and was used for truck access to the loading dock area. A rail spur from the Waterloo Railroad enters the site from the south between Buildings 7 and 12 and extends to the north the length of the facility.

Because of the various ages of the buildings, construction varies from wood framing to steel framing. Floors are all concrete with numerous trench drains and sumps. Some of the trench drains have been filled with concrete. Others have been filled with sediment through the years. Sumps, filled and unfilled are located throughout the facility.

Three wells for manufacturing use are located on the site. The well depths vary from 180 to 250 feet bgs.

Gary Wilcox of the Black Hawk County Solid Waste Commission was contacted on February 17, 2004 for information on the Chamberlain site. Mr. Wilcox was employed by Chamberlain Manufacturing Corporation, most recently as the Manager of Safety and Environmental Engineering, for a total of 22 years, terminating his employment in 1991. The Chamberlain Manufacturing Facility ceased operation in 1993. Mr. Wilcox currently is the head of the Solid Waste Commission in Black Hawk County and manages the Landfill.

Wilcox noted that in addition to munitions assembly, there were also metal finishing and painting operations that took place in the facility during its function. Mr. Wilcox pointed out various areas of concern on a map of the layout of the Chamberlain property. In his opinion, the major areas of concern were:

- The northeast area to the rear of the buildings; potential for buried cyanide.
- The northeast area to the rear of buildings; potential for PCB cutting oil
- The area along the dike to the east of the buildings; probably foundry fill area.
- Former Mildred Street under front portion of buildings; sewer replacement discovered missing parts of sewer tile, unknown for how long.
- The area around building 16 near Virden Creek; reportable sulfuric acid spill into creek.
- The floor drain in building 13 (near the middle of site); uncontrolled intake with an unknown outlet.

According to Wilcox, there were multiple USTs under building #9 that were not registered, but were steam cleaned, filled with sand, and sealed while the plant was in operation.

Wilcox also added he had no concern for explosive materials nor depleted uranium at this site. The depleted uranium at the factory was handled only as rods and was not altered at the plant. The uranium was opened and handled only in building 12. The test firing range was located to the north of Denver, Iowa and was a separate entity from the manufacturing facility.

Wilcox also stated that the facility was "fairly well" asbestos abated and PCB abated while still in operation. He added that the press pits in the facility were steam cleaned, toxins removed, filled with sand and cemented over by Clean Harbors Inc. also during operation of the facility.

Wilcox noted that there were still two water wells on the site and wasn't sure if they had been closed. The water from those wells was used for cooling and manufacturing purposes.

4.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT

The Phase II ESA was divided into three stages; 1) a radiological survey, 2) a geophysical investigation survey on the north end of the site and 3) the collection of soil, groundwater and surface water and sediment samples. The results of each stage of investigation are provided below.

4.1 Radiological Survey

Ken Kerns and Stephen Simpson, radiation consultants from Iowa State University, performed the Radiological Survey in July and August 2004. This survey was necessary because of the history of depleted uranium (DU) handling at the site. There was concern for residual radioactivity, which could impact the health and safety of employees collecting soil and groundwater samples, and require cleanup prior to the site being returned to productive use.

The survey was conducted in accordance with the MARSSIM. Messrs. Kerns and Simpson identified the AOCs for radiation, divided each AOC into a grid, determined background levels of radiation for each AOC, and then used several methods to detect potential radiation. The methods employed included sodium iodide detectors, a pressurized ion chamber, a pancake probe Geiger-Mueller (GM) detector and wipe samples.

The results of the survey did not identify any areas with radiological contamination greater than twice background. The results indicate that no radiological contamination is present at the site and no further action is required based on radiological concerns. The complete Radiological Survey Report is in Appendix C.

Additionally, during drilling activities, two soil samples were collected from off-site to serve as background samples, then 30 samples from on site were submitted for screening using a lead shielded three-inch sodium-iodide detector system. The results indicated that all samples were within the range of the established background. There was no depleted-uranium contamination present in the soil boring samples. Based on the screening results, no further radiological analysis is necessary or required. The letter report from Messrs. Kerns and Simpson is in Appendix C.

4.2 Geophysical Investigation

The Geophysical Investigation was performed during the week of August 16, 2004 by ARM Group, Inc. During the Phase I ESA interviews, it was alleged that drums of hazardous materials were buried on the north end of the property. Prior to initiating drilling activities it was necessary to attempt to identify the location of the alleged drums.

The geophysical investigation was conducted in two phases. In the first phase, an electromagnetic (EM) survey was conducted over the investigation area along traverses spaced at five-foot intervals and oriented east to west. The end points of the traverses were located using a global positioning system (GPS) and coordinates recorded. The second phase of the survey used GPR over areas that showed EM anomalies.

Twelve anomalies of unknown origin were identified by the geophysical investigation. Five of the 12 are small, having dimensions of approximately five feet by three feet. Three of the anomalies have a broad profile much like a large UST or pipe. Around these three are smaller profiles that could possibly represent buried drums. The entire Geophysical Investigation Report is in Appendix D.

4.3 Soil and Groundwater Assessment

For this Phase II ESA, 70 soil borings were advanced with 14 of those converted into permanent groundwater monitoring wells in Areas 1 through 4 of the former Chamberlain Manufacturing site. Refer to Figure 2 in Appendix B for a Site Plan. Analytical reports are in Appendix E and soil boring logs in Appendix F.

As mentioned earlier, every AOC identified in the Phase I ESA could not be investigated in this Phase II ESA. Additionally, AOCs that required investigation with methods other than soil, sediment, water or groundwater sampling, will be investigated at a later date when more funding is available.

AOC1-1: Aluminum Machining

Range 1 (<2 feet bgs) and Range 2 (>2 feet bgs) soil were investigated for AOC1-1 with the collection of samples from SB-13, SB-14, SB-15 and SB-16. Samples were analyzed for Resource Conservation and Recovery Act (RCRA) metals, SVOCs, VOCs and polychlorinated biphenyls (PCBs).

Analytical results of the Range 1 soil samples identified six RCRA metals, 10 SVOCs, 11 VOCs and one PCB. Only the RCRA metal, arsenic, was found in a concentration exceeding a statewide standard. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 1
Range 1 Soils – AOC1-1 (mg/kg¹)

Analyte	SB-13	SB-14	SB-15	SB-105 ²	SB-16	SB-16R ³	Statewide Standard
Metals							
Arsenic	1.73	0.974	1.8	2.0	0.799	0.844	1.9
Mercury	0.01332	0.00723	0.0090	0.0088	0.00416	0.00351	23
Barium	34	32	32	33	25	26	5,500
Cadmium	0.53	0.93	1.0	1.0	<0.25	<0.25	39
Chromium	27	4.9	10	8.6	3.5	3.7	230
Lead	<5.3	8.7	9.1	8.5	<5.1	<5.1	400
SVOCs							
Benzo(a)anthracene	<0.19	0.1	<0.19	<0.19	<0.036	<0.036	3.1
Benzo(b)fluoranthene	<0.19	0.08	<0.19	<0.19	<0.038	<0.038	3.1
Benzo(k)fluoranthene	<0.25	0.08	<0.25	<0.25	<0.050	<0.050	31
Benzo(a)pyrene	<0.25	0.08	<0.25	<0.25	<0.050	<0.050	0.31
Benzo(g,h,i)perylene	<0.21	0.06	<0.21	<0.21	<0.040	<0.040	None
Chrysene	<0.16	0.13	<0.16	<0.16	<0.031	<0.031	310
Fluoranthene	<0.19	0.23	<0.19	<0.19	<0.037	<0.037	2,300
Indeno(1,2,3-cd)pyrene	<0.17	0.06	<0.17	<0.17	<0.032	<0.032	3.1
Phenanthrene	<0.20	0.18	<0.20	<0.20	<0.039	<0.039	None
Pyrene	<0.26	0.20	<0.26	<0.26	<0.051	<0.051	1,700
VOCs							
Acetone	0.0217	NA ⁴	0.0195	0.0199	NA	NA	70,000
Benzene	0.00183	NA	<0.00073	<0.00073	NA	NA	58
Chloroform	<0.00090	NA	<0.00147	0.00172	NA	NA	520
1,1-DCA	<0.00084	NA	0.00084	0.00085	NA	NA	7,800
cis 1,2-DCE	<0.00084	NA	0.00483	0.00506	NA	NA	780
Ethylbenzene	0.00133	NA	<0.00057	<0.00057	NA	NA	7,800
PCE	<0.00097	NA	0.0161	0.0200	NA	NA	61
Toluene	0.00277	NA	0.00078	<0.00073	NA	NA	16,000
1,1,1-TCA	0.0109	NA	0.0404	0.0473	NA	NA	16,000
TCE	0.00673	NA	0.162	0.179	NA	NA	8.0
Trichlorofluoromethane	0.00076	NA	0.00050	0.00046	NA	NA	23,000
PCBs							
PCB-1254	1.1	<0.26	<0.26	<0.26	<0.26	<0.26	1.1

Analytical results of the Range 2 soil samples identified six RCRA metals, one SVOC and five VOCs with none exceeding a statewide standard. No PCBs were identified in Range 2. It can be determined by observation that cumulative health risks will not exceed applicable standards. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

¹ mg/kg = milligrams per kilogram

² SB-105 is a blind replicate of SB-15

³ SB-16R is a replicate of SB-16

⁴ NA = Not analyzed

Table 2
Range 2 Soils – AOC1-1 (mg/kg)

Analyte	SB-15	Statewide Standard
Metals		
Arsenic	1.4	1.9
Mercury	0.00068	23
Barium	27	5,500
Cadmium	0.30	39
Chromium	4.9	230
Lead	6.9	400
SVOCs		
Phenanthrene	0.05	None
VOCs		
Acetone	0.025	70,000
PCE	0.0335	61
1,1,1-TCA	0.0469	16,000
TCE	0.224	8.0
Trichlorofluoromethane	0.00074	23,000

Groundwater was investigated for AOC1-1 with the collection of a sample from MW-3. Samples were analyzed for RCRA metals, SVOCs, VOCs and PCBs.

Analytical results of the groundwater sample identified two RCRA metals and six VOCs. TCE was the only contaminant exceeding a statewide standard. TCE also exceeds the nonprotected groundwater standard of 0.0088 mg/L. The limits of the groundwater contamination should be defined. No SVOCs or PCBs were identified above MDLs. It can be determined by observation that cumulative concentrations will be above the applicable residential standard for cancer or noncancer health risks. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 3
Groundwater – AOC1-1 (mg/L¹)

Analyte	MW-3	Statewide Standard
Metals		
Mercury	0.000042	0.002
Barium	0.087	2.0
VOCs		
Chloromethane	0.00025	0.028
2-Chlorotoluene	0.00056	None
cis 1,2-DCE	0.00091	0.07
PCE	0.00067	0.005
1,1,1-TCA	0.00906	0.2
TCE	0.0159	0.005

AOC1-2: Secondary Containment

Range 1 soil was investigated for AOC1-2 with the collection of a sample from SB-12. The sample was analyzed for RCRA metals, SVOCs, VOCs and PCBs.

Four RCRA metals and eight VOCs were identified in the soil, although none exceeded a statewide standard. No SVOCs or PCBs were identified above the method detection limits. It can be determined by observation that the cumulative health risks will be less than the allowable limits. No further action is required for AOC1-2. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 4
Range 1 Soils – AOC1-2 (mg/kg)

Analyte	SB-12	Statewide Standard
Metals		
Arsenic	1.11	1.9
Mercury	0.00382	23
Barium	20	5,500
Chromium	4.8	230
VOCs		
Acetone	0.0204	70,000
Benzene	0.00168	58
cis 1,2-DCE	0.0026	780
Ethylbenzene	0.00185	7,800
PCE	0.00193	780
Toluene	0.00271	16,000
TCE	0.0447	8.0
Trichlorofluoromethane	0.0010	12,000

¹ mg/L = milligrams per liter

**AOC1-3: Parts Washing and
AOC1-4: Steel Cutting**

Range 1 soil was investigated for AOCs1-3 and 1-4 with the collection of a sample from SB-32. The sample was analyzed for SVOCs and PCBs.

No contamination was identified above method detection limits (MDLs). No further action is required for this AOC.

AOC1-5: Storage/Draining of Oily Metal Cuttings

Range 1 and Range 2 soil were investigated for AOC1-5 with the collection of samples from SB-26, SB-27, SB-28, SB-29, SB-30 and SB-31. Samples were analyzed for PCBs, benzene, toluene, ethylbenzene and xylenes (BTEX) and TEH.

Analytical results of the Range 1 soil samples identified only TEH as gasoline (TEH-g) and as waste oil (TEH-wo), neither of which are regulated in soil. No BTEX contaminants or PCBs were identified above MDLs. No further action is required for Range 1 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

**Table 5
Range 1 Soils – AOC1-5 (mg/kg)**

Analyte	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	Tier 1 Standard
TEH							
Gasoline	13.9	NA	NA	NA	<10	NA	None
Motor (Waste) Oil	39.8	NA	NA	NA	150	NA	None

Analytical results of the Range 2 soil samples did not identify any contaminants above MDLs. No further action is required for Range 2 soil in this AOC.

Groundwater was investigated for AOC1-5 with the collection of a sample from MW-6. Samples were analyzed for BTEX and TEH.

Analytical results of the groundwater sample identified TEH-wo at a concentration exceeding the Tier 1 standard for groundwater ingestion. The concentration of TEH did not exceed the Tier 1 standard of 40 mg/L for potential groundwater ingestion. The limits of the groundwater contamination should be defined. No BTEX constituents were identified in excess of the MDL. It can be determined by observation that cumulative concentrations will not be above the applicable residential standard for cancer or noncancer health risks. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 6
Groundwater – AOC1-5 (mg/L)

Analyte	MW-6	Tier 1 Standard
TOTAL EXTRACTABLE HYDROCARBONS		
Motor (Waste) Oil	0.491	0.400

AOC1-6: Container Storage Area

Range 1 and Range 2 soil were investigated for AOC1-6 with the collection of samples from SB-33. Samples were analyzed for cyanide and VOCs.

Analytical results of the Range 1 soil sample identified only two VOCs, neither exceeding a statewide standard. No cyanide was identified above the MDL. It can be determined by observation that cumulative health risks in Range 1 soil will not exceed allowable limits. No further action is required for Range 1 soil for AOC1-6. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 7
Range 1 Soils – AOC1-6 (mg/kg)

Analyte	SB-33	Statewide Standard
VOCs		
Acetone	0.0231	70,000
Toluene	0.00078	16,000

Analytical results of the Range 2 soil sample identified only three VOCs, none of which exceed a statewide standard. Cyanide was not found above the MDL. It can be determined by observation that cumulative health risks in Range 2 soil will not exceed allowable limits. No further action is required for Range 2 soil for AOC1-6. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 8
Range 2 Soils – AOC1-6 (mg/kg)

Analyte	SB-33	Statewide Standard
VOCs		
Acetone	0.0153	70,000
Toluene	0.0016	16,000
Trichlorofluoromethane	0.00063	23,000

AOC1-7: 90-Day Hazardous Waste Storage Area

Range 1 soil was investigated for AOC1-7 with the collection of a sample from SB-41. The sample was analyzed for RCRA metals and PCBs.

Analytical results of the Range 1 soil sample identified five RCRA metals and no detectable PCBs. None of the RCRA metals exceeded a statewide standard. It can be determined by observation that cumulative health risks in Range 1 soil will not exceed allowable limits. No further action is required for Range 1 soil for AOC1-7. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 9
Range 1 Soils – AOC1-7 (mg/kg)

Analyte	SB-41	Statewide Standard
Metals		
Arsenic	1.7	1.9
Mercury	0.026	23
Barium	57	5,500
Cadmium	2.36	39
Chromium	9.00	230
Lead	16.8	400

AOC1-8: DU Storage Shipping and Receiving

Range 1 soil was investigated for AOC1-8 with the collection of a sample from SB-8. The sample was analyzed for SVOCs and PCBs. No contaminants were identified above MDLs. No further action is required for this AOC.

AOC1-9: Aluminum Machining

Range 1 soil was investigated for AOC1-9 with the collection of samples from SB-9 and SB-11. The samples were analyzed for VOCs and PCBs.

No PCBs were identified above MDLs. Seven VOCs were identified with none having concentrations above the statewide standards. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC.

Table 10
Range 1 Soils – AOC1-9 (mg/kg)

Analyte	SB-9	SB-11	Statewide Standard
VOCs			
Acetone	<0.0083	0.0223	70,000
Benzene	0.00116	0.00203	58
Ethylbenzene	0.00087	0.00080	7,800
Toluene	0.00150	0.00188	16,000
1,1,1-TCA	0.00477	0.00125	16,000
TCE	0.0419	0.00454	8.0
Trichlorofluoromethane	0.00120	0.00048	23,000

AOC1-10: Solvent Storage Tank

Range 1 and Range 2 soil was investigated for AOC1-10 with the collection of samples from SB-10. Samples were analyzed for SVOCs, VOCs and PCBs.

Analytical results of the Range 1 soil sample identified two VOCs, neither in concentrations exceeding statewide standards. No SVOCs or PCBs were identified above MDLs. It can be determined by observation that cumulative health risks in Range 1 soil will not exceed allowable limits. No further action is required for Range 1 soil for AOC1-10. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 11
Range 1 Soils – AOC1-10 (mg/kg)

Analyte	SB-10	Statewide Standard
VOCs		
Acetone	0.0260	70,000
Benzene	0.00153	58

Analytical results of the Range 2 soil sample identified one VOC, trichloroethylene (TCE) but the concentration did not exceed the statewide standard. No SVOCs or PCBs were identified above the MDLs. It can be determined by observation that cumulative health risks in Range 2 soil will not exceed allowable limits. No further action is required for Range 2 soil for AOC1-10. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 12
Range 2 Soils – AOC1-10 (mg/kg)

Analyte	SB-10	Statewide Standard
VOCs		
TCE	0.0257	8.0

Groundwater was investigated for AOC1-10 with the collection of a sample from MW-2. Samples were analyzed for SVOCs and VOCs.

Analytical results of the groundwater sample identified five VOCs with TCE exceeding its statewide standard. No SVOCs or PCBs were identified above MDLs. TCE also exceeds the nonprotected groundwater standard of 0.0088 mg/L. The limits of groundwater contamination should be defined. It can be determined by observation that cumulative concentrations in groundwater as well as in soil and groundwater combined will not exceed standards. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 13
Groundwater – AOC1-10 (mg/L)

Analyte	MW-2	Statewide Standard
VOCs		
Chloromethane	0.00043	0.028
1,1-DCA	0.00041	0.07
cis 1,2-Dichloroethene	0.00204	0.07
1,1,1-TCA	0.00228	0.2
TCE	0.042	0.005

AOC1-11: Heating Oil/Waste Oil Above Ground Storage Tanks

Range 1 and Range 2 soil were investigated for AOC1-11 with the collection of samples from SB-7, SB-21, SB-22, SB-23, SB-24 and SB-25. Samples were analyzed for cyanide, SVOCs, VOCs, BTEX and TEH.

Analytical results of the Range 1 soil samples identified 16 SVOCs, five VOCs and TEH-wo. Of the 16 SVOCs, concentrations of benzo(a)anthracene, benzo(b)fluoranthene and benzo(a)pyrene exceeded statewide standards. Of the five VOCs, the concentrations of TCE exceeded the statewide standard. No cyanide or BTEX concentrations were detected above the MDLs. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 14
Range 1 Soils – AOC1-11 (mg/kg)

Analyte	SB-7	SB-21	SB-22	SB-23	SB-24	SB-25	Statewide Standard ¹
SVOCs							
Acenaphthene	0.15	NA	NA	NA	NA	NA	3,400
Acenaphthylene	1.28	NA	NA	NA	NA	NA	None
Anthracene	1.0	NA	NA	NA	NA	NA	17,000
Benzo(a)anthracene	5.24	NA	NA	NA	NA	NA	3.1
Benzo(b)fluoranthene	3.93	NA	NA	NA	NA	NA	3.1
Benzo(k)fluoranthene	3.72	NA	NA	NA	NA	NA	31
Benzo(a)pyrene	4.8	NA	NA	NA	NA	NA	0.31
Benzo(g,h,i)perylene	2.56	NA	NA	NA	NA	NA	None
Carbazole	0.05	NA	NA	NA	NA	NA	120
Chrysene	4.7	NA	NA	NA	NA	NA	310
Dibenzo(a,h)anthracene	0.27	NA	NA	NA	NA	NA	0.31
Fluoranthene	11.8	NA	NA	NA	NA	NA	2,300
Fluorene	0.21	NA	NA	NA	NA	NA	2,300
Indeno(1,2,3-cd)pyrene	2.99	NA	NA	NA	NA	NA	3.1
Phenanthrene	2.22	NA	NA	NA	NA	NA	None
Pyrene	8.49	NA	NA	NA	NA	NA	1,700

¹ Tier 1 standards are used to determine compliance for BTEX and TEH.

Analyte	SB-7	SB-21	SB-22	SB-23	SB-24	SB-25	Statewide Standard ¹
VOCs							
Acetone	31.9	NA	NA	NA	NA	NA	70,000
Benzene	3.04	NA	NA	NA	NA	NA	58
Ethylbenzene	0.66	NA	NA	NA	NA	NA	7,800
Toluene	2.21	NA	NA	NA	NA	NA	16,000
TCE	17.2	NA	NA	NA	NA	NA	8.0
BTEX							
Xylenes	NA	<0.5	<0.5	<1	<0.5	0.59	None
TEH							
Motor (Waste) Oil	NA	170	18.8	20.6	25.1	536	None

Analytical results of the Range 2 soil samples identified one SVOC, five VOCs, TEH as diesel (TEH-d), TEH-g and TEH-wo. None of the contaminants exceeded a statewide standard or Tier 1 standard. It can be determined by observation that the cumulative cancer and noncancer health risks in Range 2 soil are below allowable limits. No further action is required for Range 2 soil in AOC1-11. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 15
Range 2 Soils – AOC1-11 (mg/kg)

Analyte	SB-7	SB-21	SB-22	SB-23	SB-24	SB-25	Statewide Standard ¹
SVOCs							
Fluoranthene	0.05	NA	NA	NA	NA	NA	2,300
		NA	NA	NA	NA	NA	
VOCs							
Acetone	32.6	NA	NA	NA	NA	NA	70,000
Benzene	0.63	NA	NA	NA	NA	NA	58
Ethylbenzene	0.64	NA	NA	NA	NA	NA	7,800
Toluene	1.6	NA	NA	NA	NA	NA	16,000
TCE	7.24	NA	NA	NA	NA	NA	8.0
BTEX							
Ethylbenzene	NA	<0.5	<0.5	2.2	<0.5	<0.5	15
Xylenes	NA	<0.5	<0.5	7.7	<0.5	<0.5	None
TEH							
Diesel	NA	<10	<10	683	<10	<30	3,800
Gasoline	NA	<10	<10	3,740	<10	<30	None
Motor (Waste) Oil	NA	<10	<10	4,290	14.5	220	None

¹ Tier 1 standards are used to determine compliance for BTEX and TEH.

AOC1-13: Bitumen Tank

Range 1 and Range 2 soil were investigated for AOC1-13 with the collection of samples from SB-5. Samples were analyzed for cyanide, SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified three VOCs with none exceeding a statewide standard. No cyanide or SVOCs were identified above MDLs. It can be determined by observation that no further evaluation is required for Range 1 soil for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 18
Range 1 Soils – AOC1-13 (mg/kg)

Analyte	SB-5	Statewide Standard
VOCs		
Ethylbenzene	0.00067	7,800
Toluene	0.00179	16,000
TCE	0.00606	8.0

Analytical results of the Range 2 soil samples identified two SVOCs and 14 VOCs. None of the SVOCs or VOCs was in concentrations exceeding a statewide standard. No cyanide was detected above the MDL. It can be determined by observation that no further evaluation is required for Range 2 soil for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 19
Range 2 Soils – AOC1-13 (mg/kg)

Analyte	SB-5	Statewide Standard
SVOCs		
Acenaphthene	0.13	3,400
Dibenzofuran	0.09	240
VOCs		
n-Butyl benzene	0.248	None
sec-Butylbenzene	0.782	None
tert-Butylbenzene	1.590	None
2-Chlorotoluene	0.0162	None
4- Chlorotoluene	0.166	None
Ethylbenzene	0.0436	7,800
Isopropylbenzene	0.0318	None
Naphthalene	0.488	1,100
n-Propylbenzene	0.128	None
Toluene	0.00209	16,000
1,2,4-Trichlorobenzene	0.0094	780
1,2,4-Trimethylbenzene	0.298	3,900
1,3,5-Trimethylbenzene	0.101	3,900
Xylenes, Total	0.0293	16,000

Groundwater was investigated for AOC1-13 with the collection of a sample from MW-1. Samples were analyzed for cyanide, SVOCs and VOCs.

Analytical results of the groundwater sample identified seven VOCs with *cis* 1,2-dichloroethene (DCE) and TCE exceeding statewide standards. No cyanide or SVOCs were identified above MDLs. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 20
Groundwater – AOC1-13 (mg/kg)

Analyte	MW-1	MW-1R ¹	Statewide Standard
VOCs			
1,1-DCA	0.00436	0.00506	0.07
<i>cis</i> 1,2-DCE	0.155	0.178	0.07
<i>trans</i> 1, 2-DCE	0.00097	<0.00025	0.10
PCE	0.00101	0.00085	0.005
1,1,1-TCA	0.00300	0.00331	0.2
1,1,2-TCA	0.00020	<0.00010	0.005
TCE	0.607	0.623	0.005

AOC1-15: Disturbed Ground and Possible Buried Drums

Range 1 and Range 2 soil were investigated for AOC1-15 with the collection of samples from SB-1, SB-2, SB-3, SB-4, SB-5/MW-1, SB-6 and SB-7. Samples were analyzed for RCRA metals, cyanide, SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified six RCRA metals, cyanide, 19 SVOCs and 10 VOCs. None of the RCRA metals or cyanide was in concentrations exceeding a statewide standard. Of the 19 SVOCs, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene were found in concentrations exceeding the statewide standards. Of the 10 VOCs, only TCE was found in a concentration exceeding the statewide standard. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

¹ MW-1R is a replicate of MW-1.

Table 21
Range 1 Soils – AOC1-15 (mg/kg)

Analyte	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Statewide Standard
Metals								
Arsenic	0.971	NA	NA	NA	NA	1.63	NA	1.9
Mercury	0.0113	NA	NA	NA	NA	0.0126	NA	23
Barium	27	NA	NA	NA	NA	46	NA	5,500
Cadmium	<0.24	NA	NA	NA	NA	1.2	NA	39
Chromium	4.6	NA	NA	NA	NA	11	NA	230
Lead	15	NA	NA	NA	NA	55	NA	400
Cyanide								
	<0.11	0.25	3.6	<0.12	<0.11	0.58	<0.11	1,600
SVOCs								
Acenaphthene	<0.063	<0.00068	<1.4	NA	<0.33	NA	0.15	3,400
Acenaphthylene	<0.058	<0.00064	<1.3	NA	<0.31	NA	1.28	None
Anthracene	<0.039	<0.00043	<0.86	NA	<0.21	NA	1.0	17,000
Benzo(a)anthracene	<0.035	0.00054	<0.77	NA	<0.19	NA	5.24	3.1
Benzo(b)fluoranthene	<0.037	0.0004	<0.77	NA	<0.19	NA	3.93	3.1
Benzo(k)fluoranthene	<0.049	<0.00052	<1.0	NA	<0.25	NA	3.72	31
Benzo(a)pyrene	<0.039	<0.00052	<1.0	NA	<0.25	NA	4.8	0.31
Benzo(g,h,i)perylene	<0.081	<0.00043	<0.86	NA	<0.21	NA	2.56	None
Bis(2-ethylhexyl)phthalate	<0.032	0.00054	26.6	NA	<0.17	NA	<0.034	170
Carbazole	<0.039	<0.00043	<0.86	NA	<0.21	NA	0.05	120
Chrysene	<0.030	0.00054	<0.64	NA	<0.16	NA	4.7	310
Dibenzo(a,h)anthracene	<0.077	<0.00081	<1.6	NA	<0.39	NA	0.27	0.31
Di-n-butylphthalate	<0.043	<0.00048	1.3	NA	<0.23	NA	<0.045	None
Fluoranthene	<0.036	0.0013	<0.77	NA	<0.19	NA	11.8	2,300
Fluorene	<0.052	<0.00055	<1.1	NA	<0.27	NA	0.21	2,300
Indeno(1,2,3-cd)pyrene	<0.031	<0.00035	<0.69	NA	<0.17	NA	2.99	3.1
Isophorone	<0.058	<0.00064	1.3	NA	<0.31	NA	<0.061	12,000
Phenanthrene	<0.038	0.0010	<0.82	NA	<0.20	NA	2.22	None
Pyrene	<0.049	0.00120	<1.1	NA	<0.26	NA	8.49	1,700
VOCs								
Acetone	0.0293	0.029	0.00577	NA	<0.0187	NA	31.9	70,000
Benzene	<0.00056	0.00084	0.00225	NA	<0.00171	NA	3.04	58
cis 1,2-DCE	<0.00097	0.00762	0.00676	NA	<0.00098	NA	<1.0	780
trans 1,2-DCE	<0.00077	0.00143	<0.00082	NA	<0.00078	NA	<0.79	1,600
Ethylbenzene	<0.00056	0.00075	0.00110	NA	0.00067	NA	0.66	7,800
PCE	<0.00067	<0.00070	0.00116	NA	<0.00067	NA	<0.68	780
Toluene	<0.00072	0.00125	0.00259	NA	0.00179	NA	2.21	16,000
TCE	<0.00097	0.00869	<0.0727	NA	0.00606	NA	17.2	8.0
1,2,4-Trimethylbenzene	<0.0051	<0.0054	0.0084	NA	<0.0052	NA	<5.2	3,900
Xylenes, Total	<0.0051	<0.0054	0.0056	NA	<0.0052	NA	<5.2	16,000

Analytical results of the Range 2 soil samples identified seven RCRA metals, cyanide, 22 SVOCs and 19 VOCs. Neither cyanide nor VOCs were in concentrations exceeding a statewide standard. Of the 22 SVOCs, only benzo(a)pyrene was found in concentrations exceeding the statewide standard. Of the seven RCRA metals only arsenic exceeded a statewide standard. Range 2 soil was further evaluated in Section 4.0 of this report. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 22
Range 2 Soils – AOC1-15 (mg/kg)

Analyte	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Statewide Standard
Metals								
Arsenic	0.721	NA	NA	NA	NA	19.3	NA	1.9
Mercury	0.0045	NA	NA	NA	NA	0.0049	NA	23
Barium	22	NA	NA	NA	NA	951	NA	5,500
Cadmium	<0.25	NA	NA	NA	NA	32	NA	39
Chromium	3.5	NA	NA	NA	NA	110	NA	230
Lead	<5.2	NA	NA	NA	NA	219	NA	400
Silver	<0.59	NA	NA	NA	NA	5.1	NA	390
Cyanide	<0.11	<0.11	1.3	<0.13	<0.13	8.6	<0.11	1,600
SVOCs								
Acenaphthene	<0.33	<0.066	<0.32	NA	0.13	2.72	<0.065	3,400
Acenaphthylene	<0.31	<0.061	<0.30	NA	<0.071	<0.070	<0.061	None
Anthracene	<0.21	<0.041	<0.21	NA	<0.046	0.32	<0.040	17,000
Benzo(a)anthracene	<0.19	<0.036	0.52	NA	<0.042	0.19	<0.036	3.1
Benzo(b)fluoranthene	<0.19	<0.039	0.4	NA	<0.044	0.08	<0.038	3.1
Benzo(k)fluoranthene	<0.25	<0.051	0.4	NA	<0.059	0.1	<0.051	31
Benzo(a)pyrene	<0.25	<0.051	0.4	NA	<0.059	0.06	<0.051	0.31
Benzo(g,h,i)perylene	<0.21	<0.041	0.4	NA	<0.046	<0.046	<0.040	None
Benzyl Alcohol	<0.41	<0.084	0.41	NA	<0.097	<0.096	<0.084	23,000
Bis(2-ethylhexyl)phthalate	<0.17	<0.033	<0.17	NA	<0.038	0.26	<0.033	170
Chrysene	<0.16	<0.031	0.58	NA	<0.035	0.17	<0.031	310
Dibenzofuran	<0.25	<0.049	<0.25	NA	0.09	2.23	<0.049	240
Di-n-butylphthalate	<0.23	<0.045	<0.23	NA	<0.051	0.08	<0.044	None
Fluoranthene	<0.19	<0.038	1.0	NA	<0.043	0.51	0.05	2,300
Fluorene	<0.27	<0.055	<0.26	NA	<0.064	0.96	<0.055	2,300
Indeno(1,2,3-cd)pyrene	<0.17	<0.032	0.4	NA	<0.037	<0.037	<0.032	3.1
2-Methylnaphthalene	<0.33	<0.067	<0.32	NA	<0.077	1.78	<0.066	240
Naphthalene	<0.37	<0.076	<0.37	NA	<0.088	3.81	<0.075	1,100
N-Nitrosodiphenylamine	<0.18	<0.035	<0.18	NA	<0.040	0.26	<0.035	500
Phenanthrene	<0.20	<0.040	0.4	NA	<0.045	1.22	<0.039	None
Pyrene	<0.26	<0.052	0.89	NA	<0.060	0.42	<0.052	1,700
2,4-Dichlorophenol	<0.38	<0.077	<0.38	NA	<0.089	0.38	<0.077	180
VOCs								
Acetone	0.0172	0.0298	0.0437	NA	<0.0098	NA	32.6	70,000
Benzene	<0.00057	<0.00057	0.00191	NA	<0.00067	NA	0.63	58

Table 26
Groundwater – AOC1-16 (mg/L)

Analyte	MW-7	MW-8	MW-20 ¹	Statewide Standard
Metals				
Arsenic	0.00072	NA ²	0.00070	0.01
Mercury	0.000046	NA	0.000051	0.002
Barium	0.183	NA	0.184	2.0
Cyanide				
	0.0952	0.0494	0.0948	0.20
SVOCs				
Bis(2-ethylhexyl)phthalate	0.00408	NA	0.00412	0.013
Di-n-butylphthalate	0.00258	NA	0.00287	None
VOCs				
Chloromethane	<0.00024	NA	0.00036	0.028
1,1-DCA	0.0157	NA	0.0153	0.07
1,1-DCE	0.0120	NA	0.0119	0.007
cis 1,2-DCE	0.0748	NA	0.0735	0.07
trans 1,2-DCE	0.00061	NA	0.00063	0.10
PCE	0.0199	NA	0.0203	0.005
1,1,1-TCA	0.0306	NA	0.0302	0.2
1,1,2-TCA	0.00031	NA	0.00015	0.005
TCE	0.0594	NA	0.0578	0.005

AOC1-19: Hazardous Waste Storage

Range 1 and Range 2 soil were investigated for AOC1-19 with the collection of samples from SB-34. Samples were analyzed for RCRA metals, cyanide and VOCs.

Analytical results of the Range 1 soil sample identified five RCRA metals and seven VOCs, none of which exceeded a statewide standard. No cyanide was identified above the MDL. It can be determined by observation that the cumulative concentrations of contaminants in Range 1 soil will not exceed site-specific residential standards. **No further action is required for Range 1 soil for this AOC.** The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

¹ MW-20 is a blind replicate of MW-7

² NA = Not analyzed

Table 27
Range 1 Soils – AOC1-19 (mg/kg)

Analyte	SB-34	Statewide Standard
Metals		
Arsenic	1.27	1.9
Mercury	0.00609	23
Barium	35	5,500
Chromium	5.6	230
Lead	10	400
VOCs		
Acetone	27.2	70,000
Benzene	0.98	58
Ethylbenzene	0.66	7,800
PCE	4.33	780
Toluene	5.71	16,000
1,1,1-TCA	20.2	16,000
TCE	5.89	8.0

Analytical results of the Range 2 soil sample identified five RCRA metals, cyanide and seven VOCs, none of which exceed a statewide standard. It can be determined by observation that the cumulative concentrations of contaminants in Range 2 soil will not exceed site-specific residential standards. No further action is required for Range 2 soil for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 28
Range 2 Soils – AOC1-19 (mg/kg)

Analyte	SB-34	Statewide Standard
Cyanide	0.22	1,600
Metals		
Arsenic	1.53	1.9
Mercury	0.00898	23
Barium	58	5,500
Chromium	8.8	230
Lead	27	400
VOCs		
Acetone	16.5	70,000
Benzene	2.07	58
Ethylbenzene	1.12	7,800
PCE	4.06	780
Toluene	2.56	16,000
1,1,1-TCA	20.3	16,000
TCE	7.53	8.0

AOC1-20: Parts Washing

Range 1 soil was investigated for AOC1-20 with the collection of a sample from SB-32. The sample was analyzed for SVOCs and PCBs.

No contamination was identified above MDLs. No further action is required for this AOC.

AOC1-21: Parts Washing

Range 1 soil was investigated for AOC1-21 with the collection of a sample from SB-12. The sample was analyzed for RCRA metals, SVOCs, VOCs and PCBs.

Four RCRA metals and eight VOCs were identified in the soil, although none exceeded a statewide standard. No SVOCs or PCBs were identified above the MDL. It can be determined by observation that the cumulative concentrations of contaminants in Range 1 soil will not exceed site-specific residential standards. No further action is required for Range 1 soil for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 29
Range 1 Soils – AOC1-21 (mg/kg)

Analyte	SB-12	Statewide Standard
Metals		
Arsenic	1.11	1.9
Mercury	0.00382	23
Barium	20	5,500
Chromium	4.8	230
VOCs		
Acetone	0.0204	70,000
Benzene	0.00168	58
<i>cis</i> 1,2-DCE	0.0026	780
Ethylbenzene	0.00185	7,800
PCE	0.00193	780
Toluene	0.00271	16,000
TCE	0.0447	8.0
Trichlorofluoromethane	0.0010	12,000

AOC1-22: 10,000-Gallon Waste Oil UST

Range 1 and Range 2 soil were investigated for AOC1-22 with the collection of samples from SB-89. The samples were analyzed for BTEX and TEH.

Analytical results for Range 1 soil identified TEH-wo. There is no Tier 1 standard for waste oil in soil. No BTEX components were identified. No further action is required for Range 1 soil in AOC1-22. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 30
Range 1 Soils – AOC1-22 (mg/kg)

Analyte	SB-89	Tier 1 Standard
TEH		
Motor (Waste) Oil	10.4	None

No contaminants were identified above MDLs in Range 2 soil. No further action is required for Range 2 soil in AOC1-22. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

AOC1-23: Degreasing

Range 1 soil was investigated for AOC1-23 with the collection of a sample from SB-8. The sample was analyzed for PCBs and SVOCs. No contaminants were identified above MDLs. No further action is required for this AOC.

AOC1-24: Degreasing

Range 1 and Range 2 soil was investigated for AOC1-24 with the collection of samples from SB-10 and SB-12. Samples were analyzed for RCRA metals, SVOCs, VOCs and PCBs.

Analytical results of the Range 1 soil sample identified four RCRA metals and eight VOCs, none of which were in concentrations exceeding statewide standards. No PCBs were identified exceeding a MDL. It can be determined by observation that the cumulative concentrations will not exceed standards. No further action is required for Range 1 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 31
Range 1 Soils – AOC1-24 (mg/kg)

Analyte	SB-10	SB-12	Statewide Standard
Metals			
Arsenic	NA	1.11	1.9
Mercury	NA	0.00382	23
Barium	NA	20	5,500
Chromium	NA	4.8	230
VOCs			
Acetone	0.0260	0.0204	70,000
Benzene	0.00153	0.00168	58
cis 1,2-DCE	<0.00158	0.0026	780
Ethylbenzene	<0.00114	0.00185	7,800
PCE	<0.00067	0.00193	780
Toluene	<0.00264	0.00271	16,000
TCE	<0.0148	0.0447	8.0
Trichlorofluoromethane	<0.00046	0.0010	12,000

Analytical results of the Range 2 soil sample identified one VOC, TCE, but the concentration did not exceed the statewide standard. No SVOCs or PCBs were identified above MDLs. It can be determined by observation that cumulative health risks in Range 2 soil will not exceed allowable limits. No further action is required for Range 2 soil for AOC1-24. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 32
Range 2 Soils – AOC1-24 (mg/kg)

Analyte	SB-10	Statewide Standard
VOCs		
TCE	0.0257	8.0

Groundwater was investigated for AOC1-24 with the collection of a sample from MW-2. Samples were analyzed for SVOCs, VOCs and PCBs.

Analytical results of the groundwater sample identified five VOCs with TCE exceeding its statewide standard. No SVOCs or PCBs were identified above MDLs. TCE also exceeds the nonprotected groundwater standard of 0.0088 mg/L therefore a risk evaluation and response action must be performed for groundwater in this AOC. It can be determined by observation that cumulative concentrations in groundwater as well as in soil and groundwater combined will not exceed standards. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 33
Groundwater – AOC1-24 (mg/L)

Analyte	MW-2	Statewide Standard
VOCs		
Chloromethane	0.00043	0.028
1,1-DCA	0.00041	0.07
cis 1,2-DCE	0.00204	0.07
1,1,1-TCA	0.00228	0.2
TCE	0.042	0.005

AOC1-25: Paint Drying Area

Range 1 and Range 2 soil were investigated for AOC1-25 with the collection of samples from SB-26, SB-27, SB-28, SB-29, SB-30 and SB-31. Samples were analyzed for PCBs, BTEX and TEH.

Analytical results of the Range 1 soil samples identified only TEH-g and TEH-wo, neither of which is regulated in soil. No PCBs or BTEX concentrations were identified above MDLs. No further action is required for Range 1 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 34
Range 1 Soils – AOC1-25 (mg/kg)

Analyte	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	Tier 1 Standard
TEH							
Gasoline	13.9	NA	NA	NA	<10	NA	None
Motor (Waste) Oil	39.8	NA	NA	NA	150	NA	None

Analytical results of the Range 2 soil samples did not identify any contaminants above MDLs. No further action is required for Range 2 soil in this AOC.

Groundwater was investigated for AOC1-25 with the collection of a sample from MW-6. Samples were analyzed for **BTEX** and **TEH**.

Analytical results of the groundwater sample identified TEH-wo at a concentration exceeding the Tier 1 standard for groundwater ingestion (0.4 mg/L). The concentration of TEH did not exceed the Tier 1 standard of 40 mg/L for potential groundwater ingestion. No BTEX constituents were identified in excess of the MDL. The limits of the contamination should be defined. It can be determined by observation that cumulative concentrations will not be above the applicable residential standard for cancer or noncancer health risks. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 35
Groundwater – AOC1-25 (mg/L)

Analyte	MW-6	Tier 1 Standard
TOTAL EXTRACTABLE HYDROCARBONS		
Motor (Waste) Oil	0.491	0.400

AOC1-26: Paint Booth

Range 1 soil was investigated for AOC1-26 with the collection of a sample from **SB-9**. The sample was analyzed for **PCBs** and **VOCs**.

Six VOCs were identified with none having concentrations above the statewide standards. No PCBs were identified above MDLs. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC.

Table 36
Range 1 Soils – AOC1-26 (mg/kg)

Analyte	SB-9	Statewide Standard
VOCs		
Benzene	0.00116	58
Ethylbenzene	0.00087	7,800
Toluene	0.00150	16,000
1,1,1-TCA	0.00477	16,000
TCE	0.0419	8.0
Trichlorofluoromethane	0.00120	23,000

AOC1-27: Paint Booth

Range 1 soil was investigated for AOC1-27 with the collection of a sample from SB-12. The sample was analyzed for RCRA metals, SVOCs, VOCs and PCBs.

Four RCRA metals and eight VOCs were identified in the soil, although none exceeded a statewide standard. No SVOCs or PCBs were identified above MDLs. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 37
Range 1 Soils – AOC1-27 (mg/kg)

Analyte	SB-12	Statewide Standard
Metals		
Arsenic	1.11	1.9
Mercury	0.00382	23
Barium	20	5,500
Chromium	4.8	230
VOCs		
Acetone	0.0204	70,000
Benzene	0.00168	58
cis 1,2-DCE	0.0026	780
Ethylbenzene	0.00185	7,800
PCE	0.00193	780
Toluene	0.00271	16,000
TCE	0.0447	8.0
Trichlorofluoromethane	0.0010	12,000

AOC1-28: 500-Gallon Gasoline Underground Storage Tank

Range 1 and Range 2 soil were investigated for AOC1-28 with the collection of samples from SB-18, SB-19 and SB-20. The samples were analyzed for BTEX. No BTEX contaminants were found above the MDL in either of the ranges of soil. No further action is required for soil in this AOC.

Groundwater was investigated for AOC1-28 with the collection of a sample from MW-4. The sample was analyzed for VOCs.

Analytical results of the groundwater sample identified five VOCs with none exceeding a statewide standard. It can be determined by observation that cumulative concentrations will be above the applicable residential standard for cancer or noncancer health risks. No further action is required for groundwater in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 38
Groundwater – AOC1-28 (mg/L)

Analyte	MW-4	Statewide Standard
VOCs		
Chloromethane	0.00031	0.028
cis 1,2-DCE	0.00189	0.07
Hexachlorobutadiene	0.00025	0.001
1,1,1-TCA	0.00073	0.2
TCE	0.00163	0.005

AOC1-29: Disturbed Ground

Range 1 and Range 2 soil were investigated for AOC1-29 with the collection of samples from SB-35, SB-36, SB-37, SB-38, SB-39 and SB-40. Samples were analyzed for RCRA metals, cyanide, SVOCs, VOCs and PCBs.

Analytical results of the Range 1 soil samples identified cyanide, seven RCRA metals, 11 SVOCs and seven VOCs. The only contaminant found in a concentration exceeding a statewide standard was the RCRA metal, arsenic. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for Range 1 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 39
Range 1 Soils – AOC1-29 (mg/kg)

Analyte	SB-35	SB-36	SB-37	SB-38	SB-39	SB-40	Statewide Standard
Metals							
Arsenic	1.89	NA	NA	NA	3.13	NA	1.9
Mercury	0.00534	NA	NA	NA	0.00433	NA	23
Barium	26	NA	NA	NA	65	NA	5,500
Cadmium	<0.25	NA	NA	NA	4.2	NA	39
Chromium	4.5	NA	NA	NA	30	NA	230
Lead	<5.2	NA	NA	NA	34	NA	400
Selenium	<7.7	NA	NA	NA	33	NA	390
Cyanide							
	<0.11	3.4	<0.12	NA	0.43	2.2	1,600
SVOCs							
Benzo(a)anthracene	<0.035	NA	NA	0.09	NA	NA	3.1
Benzo(b)fluoranthene	<0.037	NA	NA	0.08	NA	NA	3.1
Benzo(k)fluoranthene	<0.050	NA	NA	0.08	NA	NA	31
Benzo(a)pyrene	<0.050	NA	NA	0.08	NA	NA	0.31
Benzo(g,h,i)perylene	<0.050	NA	NA	0.06	NA	NA	None
Chrysene	<0.056	NA	NA	0.11	NA	NA	310
Dibenzo(a,h)anthracene	0.04	NA	NA	<0.081	NA	NA	0.31
Fluoranthene	0.06	NA	NA	0.22	NA	NA	2,300
Indeno(1,2,3-cd)pyrene	<0.031	NA	NA	0.06	NA	NA	3.1
Phenanthrene	<0.038	NA	NA	0.12	NA	NA	None
Pyrene	<0.051	NA	NA	0.18	NA	NA	1,700
VOCs							
Acetone	0.0144	NA	NA	NA	NA	NA	70,000
Benzene	0.00065	NA	NA	NA	NA	NA	58
Ethylbenzene	0.00066	NA	NA	NA	NA	NA	7,800
PCE	0.00744	NA	NA	NA	NA	NA	780
Toluene	0.00372	NA	NA	NA	NA	NA	16,000
1,1,1-TCA	0.0186	NA	NA	NA	NA	NA	16,000
TCE	0.00327	NA	NA	NA	NA	NA	8.0

Analytical results of the Range 2 soil samples identified cyanide, six RCRA metals, six SVOCs and five VOCs. The only contaminant found in a concentration exceeding a statewide standard was the RCRA metal, arsenic. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for Range 2 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 40
Range 2 Soils – AOC1-29 (mg/kg)

Analyte	SB-35	SB-36	SB-37	SB-38	SB-39	SB-40	Statewide Standard
Metals							
Arsenic	1.51	NA	NA	NA	2.41	NA	1.9
Mercury	0.00169	NA	NA	NA	0.113	NA	23
Barium	26	NA	NA	NA	94	NA	5,500
Cadmium	<0.25	NA	NA	NA	1.5	NA	39
Chromium	5.5	NA	NA	NA	14	NA	230
Lead	<5.2	NA	NA	NA	44	NA	400
Cyanide							
	<0.11	0.60	<0.11	<0.11	0.23	<0.13	1,600
SVOCs							
Benzo(a)anthracene	0.06	NA	NA	<0.036	NA	NA	3.1
Benzo(b)fluoranthene	0.04	NA	NA	<0.038	NA	NA	3.1
Chrysene	0.06	NA	NA	<0.031	NA	NA	310
Fluoranthene	0.15	NA	NA	<0.037	NA	NA	2,300
Phenanthrene	0.07	NA	NA	<0.039	NA	NA	None
Pyrene	0.10	NA	NA	<0.052	NA	NA	1,700
VOCs							
Acetone	0.0137	NA	NA	0.00845	NA	NA	70,000
PCE	0.00416	NA	NA	0.00604	NA	NA	780
Toluene	0.00152	NA	NA	<0.00073	NA	NA	16,000
1,1,1-TCA	0.0124	NA	NA	0.00150	NA	NA	16,000
TCE	0.00200	NA	NA	<0.00099	NA	NA	8.0

Groundwater was investigated for AOC1-29 with the collection of a sample from MW-7 and MW-8. Samples were analyzed for RCRA metals, cyanide, SVOCs, VOCs and PCBs.

Analytical results of the groundwater sample identified three RCRA metals, cyanide, two SVOCs and nine VOCs. No PCBs were identified above the MDL. The VOCs 1,1-DCE, *cis* 1,2-DCE, PCE and TCE were in concentrations exceeding statewide standards. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 41
Groundwater – AOC1-29 (mg/L)

Analyte	MW-7	MW-8	MW-20 ¹	Statewide Standard
Metals				
Arsenic	0.00072	NA ²	0.00070	0.01
Mercury	0.000046	NA	0.000051	0.002
Barium	0.183	NA	0.184	2.0
Cyanide				
	0.0952	0.0494	0.0948	0.20
SVOCs				
Bis(2-ethylhexyl)phthalate	0.00408	NA	0.00412	0.013
Di-n-butylphthalate	0.00258	NA	0.00287	None
VOCs				
Chloromethane	<0.00024	NA	0.00036	0.028
1,1-DCA	0.0157	NA	0.0153	0.07
1,1-DCE	0.0120	NA	0.0119	0.007
cis 1,2-DCE	0.0748	NA	0.0735	0.07
trans 1, 2-DCE	0.00061	NA	0.00063	0.10
PCE	0.0199	NA	0.0203	0.005
1,1,1-TCA	0.0306	NA	0.0302	0.2
1,1,2-TCA	0.00031	NA	0.00015	0.005
TCE	0.0594	NA	0.0578	0.005

AOC2-2: Paint Booth;
AOC2-4: Hazardous Materials Storage Area;
AOC2-5: Acid Rinsing; and
AOC2-6: Industrial X-Ray

Range 1 soil was investigated for AOCs2-2, 2-4, 2-5 and 2-6 with the collection of a sample from SB-42. The sample was analyzed for RCRA metals, SVOCs and VOCs.

Analytical results of the Range 1 soil sample identified six RCRA metals, five SVOCs and four VOCs. Of the contaminants detected only the RCRA metal, arsenic, exceeded a statewide standard. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for these AOCs. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

¹ MW-20 is a blind replicate of MW-7

² NA = Not analyzed

Table 42
Range 1 Soils – AOCs 2-2, 2-4, 2-5 and 2-6 (mg/kg)

Analyte	SB-42	Statewide Standard
Metals		
Arsenic	2.23	1.9
Mercury	0.097	23
Barium	52	5,500
Cadmium	31	39
Chromium	11	240
Lead	42	400
SVOCs		
Benzo(a)anthracene	0.2	3.1
Chrysene	0.2	310
Fluoranthene	0.4	2,300
Phenanthrene	0.4	None
Pyrene	0.4	1,700
VOCs		
Acetone	0.0373	70,000
Benzene	0.00084	58
Toluene	0.00225	16,000
TCE	0.0486	8.0

AOC2-7: R&D Warhead Assembly

Range 1 soil was investigated for AOC2-7 with the collection of a sample from SB-44. The sample was analyzed for VOCs.

Analytical results identified five VOCs, none of which were in concentrations exceeding a statewide standard. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC.

Table 43
Range 1 Soils – AOC2-7 (mg/kg)

Analyte	SB-44	Statewide Standard
VOCs		
Acetone	0.0266	70,000
Ethylbenzene	0.00080	7,800
Toluene	0.00398	16,000
TCE	0.00141	8.0
Trichlorofluoromethane	0.00067	23,000

AOC2-8: Storage and Draining of Oily Cuttings

Range 1 and Range 2 soil were investigated for AOC2-8 with the collection of samples from SB-45. Samples were analyzed for PCBs and TEH.

Analytical results of the Range 1 soil sample did not identify any contaminants above MDLs. No further action is required for Range 1 soil for AOC2-8.

Analytical results of the Range 2 soil sample did not identify any contaminants above MDLs. No further action is required for Range 2 soil for AOC2-8.

Groundwater was investigated for AOC2-8 with the collection of a sample from MW-9. Samples were analyzed for PCBs and TEH.

Analytical results of the groundwater sample did not identify PCB or TEH concentrations above MDLs. No further action is required for groundwater in this AOC.

AOC2-9: PCB Storage

Range 1 and Range 2 soil were investigated for AOC2-9 with the collection of samples from SB-46. Samples were analyzed for PCBs and TEH.

Analytical results of the Range 1 soil samples identified TEH-wo. No PCBs were identified above the MDL. There is no soil standard for TEH-wo. No further action is required for Range 1 soil in AOC2-9. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 44
Range 1 Soils – AOC2-9 (mg/kg)

Analyte	SB-46	Tier 1 Standard
TEH		
Motor (Waste) Oil	10.9	None

Analytical results of the Range 2 soil sample identified TEH-wo. There is no soil standard for TEH-wo. No further action is required for Range 2 soil in AOC2-9. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 45
Range 2 Soils – AOC2-9 (mg/kg)

Analyte	SB-46	Tier 1 Standard
TEH	343	
Motor (Waste) Oil	343	None

AOC2-10: Paint Booth

Range 1 soil was investigated for AOC2-10 with the collection of a sample from SB-43. The sample was analyzed for SVOCs.

No contaminants were identified above MDLs. No further action is required for AOC2-10.

**AOC3-1: Solvent Vault and
 AOC3-2: Paint Storage**

Range 1 and Range 2 soil were investigated for AOCs 3-1 and 3-2 with the collection of samples from SB-50. Samples were analyzed for cyanide, RCRA metals, SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified four RCRA metals, nine SVOCs and five VOCs with none of the contaminants exceeding a statewide standard. Cyanide was not identified above the MDL. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for Range 1 soil in these AOCs. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

**Table 46
 Range 1 Soils – AOCs 3-1 and 3-2 (mg/kg)**

Analyte	SB-50	Statewide Standard
Metals		
Arsenic	0.956	1.9
Mercury	0.00686	23
Barium	29	5,500
Chromium	4.6	230
SVOCs		
Benzo(a)anthracene	0.14	3.1
Benzo(b)fluoranthene	0.14	3.1
Benzo(k)fluoranthene	0.11	31
Benzo(a)pyrene	0.13	0.31
Benzo(g,h,i)perylene	0.09	No Standard
Chrysene	0.16	310
Fluoranthene	0.26	2,300
Phenanthrene	0.10	No Standard
Pyrene	0.22	1,700
VOCs		
Acetone	0.0192	70,000
Benzene	0.00107	58
Ethylbenzene	0.00072	7,800
Toluene	0.00152	16,000
TCE	0.00188	8.0

Analytical results of the Range 2 soil samples identified four RCRA metals and two VOCs with none of the contaminants exceeding a statewide standard. Cyanide and SVOCs were not identified above the MDL. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for Range 2 soil for AOCs 3-1 and 3-2. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 47
Range 2 Soils – AOCs 3-1 and 3-2 (mg/kg)

Analyte	SB-50	Statewide Standard
Metals		
Arsenic	0.767	1.9
Mercury	0.00257	23
Barium	32	5,500
Chromium	4.1	240
VOCs		
Acetone	0.0269	70,000
Benzene	0.00066	58

Groundwater was investigated for AOCs 3-1 and 3-2 with the collection of a sample from MW-10. Samples were analyzed for RCRA metals, cyanide, SVOCs, and VOCs.

Analytical results of the groundwater sample identified four RCRA metals, cyanide and eight VOCs. No SVOCs were identified above the MDL. The VOCs PCE and TCE were in concentrations exceeding statewide standards. In addition, the TCE concentration also exceeds the nonprotected groundwater standard of 0.0088 mg/L. Groundwater contamination should be delineated. It can be determined by observation that the cumulative cancer and noncancer health risks are within allowable limits. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 48
Groundwater – AOC3-1 and AOC3-2 (mg/L)

Analyte	MW-10	Statewide Standard
Metals		
Arsenic	0.00750	0.01
Mercury	0.000061	0.002
Barium	0.025	2.0
Chromium	0.0091	0.10
Cyanide		
	0.0093	0.20
VOCs		
Chloroform	0.00058	0.08
Chloromethane	0.00025	0.028
1,1-DCA	0.00273	0.07
1,1-DCE	0.00126	0.007
cis 1,2-DCE	0.00145	0.07
PCE	0.0127	0.005
1,1,1-TCA	0.0446	0.2
TCE	0.0307	0.005

AOC3-3: Chlorinated Solvent Vapor Degreaser

Range 1 soil was investigated for AOC3-3 with the collection of a sample from SB-51. The sample was analyzed for RCRA metals and SVOCs.

Analytical results identified six RCRA metals and four SVOCs. Two of the RCRA metals, arsenic and cadmium, exceeded their statewide standards. None of the SVOCs exceeded statewide standards. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated.

Table 49
Range 1 Soils – AOCs 3-3 (mg/kg)

Analyte	SB-51	Statewide Standard
Metals		
Arsenic	3.80	1.9
Mercury	9.8	23
Barium	2,420	5,500
Cadmium	132	39
Chromium	67	230
Lead	121	400
SVOCs		
Chrysene	0.2	310
Fluoranthene	0.3	2,300
Pyrene	0.29	1,700
Phenol	0.42	18,000

AOC3-4: R&D Assembly

Range 1 soil was investigated for AOC3-4 with the collection of a sample from SB-53. The sample was analyzed for RCRA metals and VOCs.

Analytical results identified five RCRA metals and four VOCs, none of which exceed a statewide standard. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated.

Table 50
Range 1 Soils – AOCs 3-4 (mg/kg)

Analyte	SB-53	Statewide Standard
Metals		
Arsenic	1.00	1.9
Mercury	0.00691	23
Barium	29	5,500
Cadmium	0.31	39
Chromium	4.1	230
VOCs		
Acetone	0.02196	70,000
1,2-Dichloropropane	0.00158	47
Toluene	0.00084	16,000
TCE	0.0128	8.0

AOC3-8: Parts Washing;
AOC3-9: Alkaline Paint Stripping; and
AOC3-10: Patriot Missile Assembly

Range 1 soil was investigated for AOCs 3-8, 3-9 and 3-10 with the collection of a sample from SB-52. The sample was analyzed for RCRA metals and VOCs.

Analytical results identified six RCRA metals and nine VOCs, none of which exceed a statewide standard. It can be determined from observation that cumulative health affects will not be above allowable limits. No further action is required these AOCs. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated.

Table 51
Range 1 Soils – AOCs 3-8, 3-9 and 3-10 (mg/kg)

Analyte	SB-52	Statewide Standard
Metals		
Arsenic	1.84	1.9
Mercury	0.222	23
Barium	62	5,500
Cadmium	11	39
Chromium	5.6	230
Lead	48	400
VOCs		
Acetone	0.0164	70,000
Benzene	0.00092	58
Chloroform	0.00157	520
cis 1,2-DCE	0.00137	780
PCE	0.00115	780
Toluene	0.00534	16,000
1,1,1-TCA	0.0188	16,000
TCE	0.288	8.0
Trichlorofluoromethane	0.00064	23,000

AOC3-12: Gage Lab, Vent Hood and Former DU Area

Range 1 soil was investigated for AOC3-12 with the collection of a sample from SB-51. The sample was analyzed for RCRA metals and SVOCs.

Analytical results identified six RCRA metals and four SVOCs. Two of the RCRA metals, arsenic and cadmium, exceeded their statewide standards. None of the SVOCs exceeded statewide standards. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are tabulated.

Table 52
Range 1 Soils – AOC3-12 (mg/kg)

Analyte	SB-51	Statewide Standard
Metals		
Arsenic	3.8	1.9
Mercury	9.8	23
Barium	2,420	5,500
Cadmium	132	39
Chromium	67	230
Lead	121	400
SVOCs		
Chrysene	0.2	310
Fluoranthene	0.3	2,300
Pyrene	0.29	1,700
Phenol	0.42	18,000

AOC3-14: Metallurgy Lab, Vent Hood and Countertop

Range 1 and Range 2 soil were investigated for AOC3-14 with the collection of samples from SB-54. Samples were analyzed for SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified four VOCs with none of the contaminants exceeding a statewide standard. No SVOCs were detected. It can be determined by observation that the cumulative health risks will not exceed allowable limits. No further action is required for Range 1 soil for AOC3-14. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 53
Range 1 Soils – AOC3-14 (mg/kg)

Analyte	SB-54	Statewide Standard
VOCs		
Acetone	0.0350	70,000
Benzene	0.00072	58
Toluene	0.00088	16,000
TCE	0.00970	8.0

Analytical results of the Range 2 soil samples identified one SVOC and one VOC with neither of the contaminants exceeding a statewide standard. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for Range 2 soil for AOC3-14. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 54
Range 2 Soils – AOC3-14 (mg/kg)

Analyte	SB-54	Statewide Standard
SVOCs		
Bis(2-ethylhexyl)phthalate	0.032	170
VOCs		
Acetone	0.0147	70,000

AOC3-15: Disturbed Ground

Range 1 and Range 2 soil were investigated for AOC3-15 with the collection of samples from SB-50. Samples were analyzed for cyanide, RCRA metals, SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified four RCRA metals, nine SVOCs and five VOCs with none of the contaminants exceeding a statewide standard. Cyanide was not identified above the MDL. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for Range 1 soil for AOC3-15. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 55
Range 1 Soils – AOC3-15 (mg/kg)

Analyte	SB-50	Statewide Standard
Metals		
Arsenic	0.956	1.9
Mercury	0.00686	23
Barium	29	5,500
Chromium	4.6	230
SVOCs		
Benzo(a)anthracene	0.14	3.1
Benzo(b)fluoranthene	0.14	3.1
Benzo(k)fluoranthene	0.11	31
Benzo(a)pyrene	0.13	0.31
Benzo(g,h,i)perylene	0.09	No Standard
Chrysene	0.16	310
Fluoranthene	0.26	2,300
Phenanthrene	0.10	No Standard
Pyrene	0.22	1,700
VOCs		
Acetone	0.0192	70,000
Benzene	0.00107	58
Ethylbenzene	0.00072	7,800
Toluene	0.00152	16,000
TCE	0.00188	8.0

Analytical results of the Range 2 soil samples identified four RCRA metals and two VOCs with none of the contaminants exceeding a statewide standard. Cyanide and SVOCs were not identified above the MDL. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for Range 2 soil for AOC3-15. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 56
Range 2 Soils – AOC3-15 (mg/kg)

Analyte	SB-50	Statewide Standard
Metals		
Arsenic	0.767	1.9
Mercury	0.00257	23
Barium	32	5,500
Chromium	4.1	240
VOCs		
Acetone	0.0269	70,000
Benzene	0.00066	58

Groundwater was investigated for AOC3-15 with the collection of a sample from MW-10. The sample was analyzed for RCRA metals, cyanide, SVOCs, and VOCs.

Analytical results of the groundwater sample identified four RCRA metals, cyanide and eight VOCs. No SVOCs were identified above the MDL. The VOCs, PCE and TCE, were in concentrations exceeding statewide standards. In addition, the TCE concentration also exceeds the nonprotected groundwater standard of 0.0088 mg/L. A risk evaluation and response action plan is required to address groundwater contamination. It can be determined by observation that the cumulative cancer and noncancer health risks are within allowable limits. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 57
Groundwater – AOC3-15 (mg/L)

Analyte	MW-10	Statewide Standard
Metals		
Arsenic	0.00750	0.01
Mercury	0.000061	0.002
Barium	0.025	2.0
Chromium	0.0091	0.10
Cyanide		
	0.0093	0.20
VOCs		
Chloroform	0.00058	0.08
Chloromethane	0.00025	0.028
1,1-DCA	0.00273	0.07
1,1-DCE	0.00126	0.007
<i>cis</i> 1,2-DCE	0.00145	0.07
PCE	0.0127	0.005
1,1,1-TCA	0.0446	0.2
TCE	0.0307	0.005

AOC4-3: Former Equipment Location

Range 1 and Range 2 soil were investigated for AOC4-3 with the collection of samples from SB-56. Samples were analyzed for SVOCs and VOCs.

Analytical results of the Range 1 soil samples identified four VOCs with none of the contaminants exceeding a statewide standard. No SVOCs were identified above the MDLs. It can be determined from observation that the cumulative health risk will not exceed allowable limits. No further action is required for Range 1 soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 58
Range 1 Soils – AOC4-3 (mg/kg)

Analyte	SB-56	Statewide Standard
VOCs		
Acetone	0.0350	70,000
Benzene	0.00072	58
Toluene	0.00088	16,000
TCE	0.00970	8.0

The Range 2 sample was analyzed for SVOCs only and none were identified above the MDL. No further action is required for Range 2 soil for AOC4-3.

AOC4-4: Welding Area

Range 1 was investigated for AOC4-4 with the collection of a sample from SB-57. The sample was analyzed for RCRA metals.

Analytical results of the Range 1 soil sample identified five RCRA metals with arsenic being the only one with a concentration above the statewide standard. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 59
Range 1 Soils – AOC4-4 (mg/kg)

Analyte	SB-57	Statewide Standard
Metals		
Arsenic	2.43	1.9
Mercury	0.00802	23
Barium	35	5,500
Chromium	9.7	230
Lead	91	400

AOC4-5: Transformers

Range 1 soil was investigated for AOC4-5 with the collection of a sample from SB-55. The sample was analyzed for PCBs.

No PCBs were identified above the MDL. No further action is required for Range 1 soil in AOC4-5.

Groundwater was investigated for AOC4-5 with the collection of a sample from MW-11. The sample was analyzed for SVOCs and PCBs.

Analytical results of the groundwater sample did not identify any contaminant concentrations above the MDL. No further action is required for groundwater in this AOC.

AOC4-6: French Drain

Range 1 and Range 2 soil were investigated for AOC4-6 with the collection of samples from SB-60. Samples were analyzed for SVOCs and PCBs.

Analytical results of the Range 1 soil samples identified six SVOCs with none above a statewide standard. No PCBs were identified above the MDL. It can be determined from observation that cumulative health risks will not exceed allowable limits. No further action is required for Range 1 soil in AOC4-6. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 60
Range 1 Soils – AOC4-6 (mg/kg)

Analyte	SB-60	Statewide Standard
SVOCs		
Benzo(a)anthracene	0.2	3.1
Benzo(b)fluoranthene	0.2	3.1
Chrysene	0.2	310
Fluoranthene	0.4	2,300
Phenanthrene	0.4	None
Pyrene	0.4	1,700

Analytical results of the Range 2 soil samples did not identify any SVOCs above the MDL. The soil was not analyzed for PCBs in Range 2. No further action is required for Range 2 soil in AOC4-6.

Groundwater was investigated for AOC4-6 with the collection of a sample from MW-12. The sample was analyzed for SVOCs and PCBs.

Analytical results of the groundwater sample identified one SVOC and the concentration was below the statewide standard. No PCBs were identified above the MDL. No further action is required for groundwater in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 61
Groundwater – AOC4-6 (mg/L)

Analyte	MW-12	Statewide Standard
SVOCs		
Bis(2-ethylhexyl)phthalate	0.00408	0.013

AOC4-7: Floor Drains

Range 1 soil was investigated for AOC4-7 with the collection of a sample from SB-58. The sample was analyzed for RCRA metals, VOCs and PCBs.

Analytical results of the Range 1 soil sample identified six RCRA metals and six VOCs with none exceeding a statewide standard. No PCBs were identified above the MDL. It can be determined by observation that the cumulative health risks do not exceed allowable limits. No further action is required for soil in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 62
Range 1 Soils – AOC4-7 (mg/kg)

Analyte	SB-58	Statewide Standard
Metals		
Arsenic	1.85	1.9
Mercury	0.01216	23
Barium	39	5,500
Cadmium	0.89	39
Chromium	4.3	240
Lead	19	400
VOCs		
Acetone	0.0233	70,000
Benzene	0.00077	58
Chlorodibromomethane	0.00149	None
PCE	0.00258	780
1,1,1-TCA	0.00173	16,000
TCE	0.0936	8.0

AOC4-10: Laboratory

Range 1 soil was investigated for AOC4-10 with the collection of a sample from SB-63. The sample was analyzed for RCRA metals and VOCs.

Analytical results of the Range 1 soil sample identified six RCRA metals and five VOCs with arsenic being the only contaminant exceeding the statewide standard. It can be determined from observation that the cumulative increased health risk does not exceed allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 63
Range 1 Soils – AOC4-10(mg/kg)

Analyte	SB-63	Statewide Standard
Metals		
Arsenic	2.1	1.9
Mercury	0.027	23
Barium	33.1	5,500
Cadmium	3.96	39
Chromium	5.01	240
Lead	22.6	400
VOCs		
Ethylbenzene	0.00063	7,800
PCE	0.00123	780
Toluene	0.00195	16,000
1,1,1-TCA	0.00363	16,000
TCE	0.155	8.0

AOC4-13: Hard Coat Anodizing

Range 1 soil was investigated for AOC4-13 with the collection of a sample from SB-67. The sample was analyzed for RCRA metals.

Analytical results of the Range 1 soil sample identified six RCRA metals with none exceeding a statewide standard. It can be determined by observation that the cumulative health risk will not exceed allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 64
Range 1 Soils – AOC4-13 (mg/kg)

Analyte	SB-67	Statewide Standard
Metals		
Arsenic	1.13	1.9
Mercury	0.00312	23
Barium	16	5,500
Cadmium	1.9	39
Chromium	6.2	240
Lead	8.8	400

AOC4-14: Buried Tank Cars

Range 1 and Range 2 soil were investigated for AOC4-14 with the collection of samples from SB-47, SB-70 and SB-71. Samples were analyzed for VOCs, BTEX and TEH.

Analytical results of the Range 1 soil samples identified one VOC and TEH-wo with neither above a statewide standard. No BTEX components were identified above the MDLs. It can be determined from observation that cumulative health risks will not exceed allowable limits. No further action is required for Range 1 soil in AOC4-14. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

**Table 65
 Range 1 Soils – AOC4-14 (mg/kg)**

Analyte	SB-47	SB-70	SB-71	Statewide Standard
VOCs/BTEX				
Acetone	0.383	NA	NA	70,000
TEH				
Motor (Waste) Oil	NA	147	672	None

Analytical results of the Range 2 soil samples identified three VOCs and TEH-d and TEH-wo. None of the contaminants were above a statewide standard. No BTEX components were identified above the MDLs. It can be determined from observation that cumulative health risks will not exceed allowable limits. No further action is required for Range 2 soil in AOC4-14. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

**Table 66
 Range 2 Soils – AOC4-14 (mg/kg)**

Analyte	SB-47	SB-70	SB-71	Statewide Standard
VOCs				
Ethylbenzene	0.00057	<0.5	<0.5	7,800
Toluene	0.00072	<0.5	<0.5	16,000
TCE	0.00098	NA	NA	8.0
TEH				
Diesel	NA	36.2	<10	3,800
Motor (Waste) Oil	NA	387	10.3	None

Groundwater was investigated for AOC4-44 with the collection of a sample from MW-14. The sample was analyzed for BTEX and TEH.

Analytical results of the groundwater sample identified TEH-wo at a concentration exceeding the Tier 1 standard for groundwater ingestion. The concentration of TEH did not exceed the Tier 1 standard of 40 mg/L for potential groundwater ingestion. The limits of the contamination should be defined. No BTEX constituents were identified in excess of the MDL. It can be determined by observation that cumulative concentrations will not be above the applicable residential standard for cancer or noncancer health risks. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 67
Groundwater – AOC4-14 (mg/L)

Analyte	MW-14	Tier 1 Standard
TEH		
Motor (Waste) Oil	1.120	0.400

AOC4-15: Sewer Line Break and Repair

Range 1 and Range 2 soil were investigated for AOC4-15 with the collection of samples from SB-47, SB-48 and SB-49. Samples were analyzed for VOCs.

Analytical results of the Range 1 soil samples identified eight VOCs with none above a statewide standard. It can be determined from observation that cumulative health risks will not exceed allowable limits. No further action is required for Range 1 soil in AOC4-15. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 68
Range 1 Soils – AOC4-15 (mg/kg)

Analyte	SB-47	SB-48	SB-49	Statewide Standard
VOCs				
Acetone	0.383	0.0099	0.0210	70,000
Benzene	<0.00057	0.00094	0.00089	58
Ethylbenzene	<0.00057	0.00093	0.00058	7,800
Methyl Ethyl Ketone	<0.00088	<0.00086	0.00635	47,000
PCE	<0.00068	<0.00066	0.00132	780
Toluene	<0.00073	0.00202	0.00110	16,000
1,1,1-TCA	<0.00109	<0.00107	0.00372	16,000
TCE	<0.00106	0.0367	0.0780	8.0

Analytical results of the Range 2 soil samples identified eight VOCs with none above a statewide standard. It can be determined from observation that cumulative health risks will not exceed allowable limits. No further action is required for Range 2 soil in AOC4-15. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 69
Range 2 Soils – AOC4-15 (mg/kg)

Analyte	SB-47	SB-48	SB-49	Statewide Standard
VOCs				
Acetone	<0.0383	0.0291	0.0674	70,000
Benzene	<0.00057	<0.00057	0.00258	58
Ethylbenzene	0.00057	<0.00057	<0.00058	7,800
Methyl Ethyl Ketone	<0.00088	<0.00088	0.00845	47,000
PCE	<0.00067	0.00070	0.00276	780
Toluene	0.00072	0.0010	0.00141	16,000
1,1,1-TCA	<0.00109	0.00114	0.0109	16,000
TCE	0.00098	0.0279	0.172	8.0

AOC4-17: Waste Oil Storage and Recycling

Range 1 soil was investigated for AOC4-17 with the collection of a sample from SB-68. Samples were analyzed for BTEX and TEH.

Analytical results of the Range 1 soil samples identified TEH-d and TEH-wo with neither above a Tier 1 standard. No BTEX concentrations were identified above MDLs. No further action is required for Range 1 soil in AOC4-17. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 70
Range 1 Soils – AOC4-17 (mg/kg)

Analyte	SB-68	Tier 1 Standard
TEH		
Diesel	10.2	3,800
Motor (Waste) Oil	95.3	None

AOC4-18: Parts Washing

Range 1 soil was investigated for AOC4-18 with the collection of a sample from SB-66. The sample was analyzed for RCRA metals and VOCs.

Analytical results of the Range 1 soil sample identified five RCRA metals and five VOCs with none exceeding a statewide standard. It can be determined by observation that the cumulative health risk will not exceed allowable limits. No further action is required for this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 71
Range 1 Soils – AOC4-18 (mg/kg)

Analyte	SB-66	Statewide Standard
Metals		
Arsenic	0.876	1.9
Mercury	0.00384	23
Barium	29	5,500
Chromium	3.4	240
Lead	10	400
VOCs		
Acetone	0.0239	70,000
1,2-Dichloropropane	0.00190	47
PCE	0.00111	780
1,1,1-TCA	0.00171	16,000
TCE	0.0196	8.0

AOC4-22: Sludge Drying Oven

Range 1 soil was investigated for AOC4-22 with the collection of a sample from SB-61. The sample was analyzed for RCRA metals and PCBs.

Analytical results of the Range 1 soil sample identified six RCRA metals with arsenic and cadmium exceeding statewide standards. No PCBs were identified above the MDL. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 72
Range 1 Soils – AOC4-22 (mg/kg)

Analyte	SB-61	Statewide Standard
Metals		
Arsenic	6.55	1.9
Mercury	0.02078	23
Barium	51	5,500
Cadmium	176	39
Chromium	7.8	240
Lead	83	400

AOC4-24: 10,000-Gallon UST

Range 1 and Range 2 soil were investigated for AOC4-24 with the collection of samples from SB-64 and SB-65. Samples were analyzed for BTEX and TEH.

A Range 1 sample was collected only at SB-65. Analytical results of the Range 1 soil sample identified only TEH-wo, which is not regulated in soil for USTs. No BTEX contaminants were found above the MDL. No further action is required for Range 1 soil in AOC4-24. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 73
Range 1 Soils – AOC4-24 (mg/kg)

Analyte	SB-65	Statewide Standard
TEH		
Motor (Waste) Oil	44.6	None

Analytical results of the Range 2 soil samples identified TEH-d and TEH-wo. The TEH-d was above the Tier 1 standard. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 74
Range 2 Soils – AOC4-24 (mg/kg)

Analyte	SB-64	SB-65	Statewide Standard
TEH			
Diesel	9,300	<10	3,800
Motor (Waste) Oil	23,200	<10	None

Groundwater was investigated for AOC4-24 with the collection of a sample from MW-13. The sample was analyzed for BTEX and TEH.

Analytical results of the groundwater sample identified TEH-wo at a concentration exceeding the Tier 1 standard for groundwater ingestion. The concentration of TEH did not exceed the Tier 1 standard of 40 mg/L for potential groundwater ingestion. No BTEX constituents were identified in excess of the MDL. A risk evaluation should be performed to verify that there are no groundwater ingestion receptors for the TEH contamination. It can be determined by observation that cumulative concentrations will not be above the applicable residential standard for cancer or noncancer health risks. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 75
Groundwater – AOC4-24 (mg/L)

Analyte	MW-13	Tier 1 Standard
TEH		
Motor (Waste) Oil	0.467	0.400

AOC4-27: Chrome Plating

Range 1 soil was investigated for AOC4-27 with the collection of a sample from SB-62. The sample was analyzed for RCRA metals.

Analytical results of the Range 1 soil sample identified six RCRA metals with arsenic the exceeding statewide standard. Concentrations of contaminants were further evaluated against the site-specific standard in Section 4.5.4. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 76
Range 1 Soils – AOC4-27 (mg/kg)

Analyte	SB-62	Statewide Standard
Metals		
Arsenic	5.8	1.9
Mercury	0.0223	23
Barium	208	5,500
Cadmium	13.5	39
Chromium	13.1	240
Lead	70.3	400

AOC4-28: Machining Area

Range 1 soil was investigated for AOC4-28 with the collection of a sample from SB-61. The sample was analyzed for RCRA metals and PCBs.

Analytical results of the Range 1 soil sample identified six RCRA metals with arsenic and cadmium exceeding statewide standards. No PCBs were identified above the MDL. It can be determined by observation that the cumulative concentrations of contaminants will not exceed allowable limits. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 77
Range 1 Soils – AOC4-28 (mg/kg)

Analyte	SB-61	Statewide Standard
Metals		
Arsenic	6.55	1.9
Mercury	0.02078	23
Barium	51	5,500
Cadmium	176	39
Chromium	7.8	240
Lead	83	400

AOC4-29: Paint, Solvent and Chemical Storage

Range 1 soil was investigated for AOC4-29 with the collection of a sample from SB-59. The sample was analyzed for RCRA metals.

Analytical results of the Range 1 soil sample identified six RCRA metals with cadmium being the only contaminant exceeding a statewide standard. It can be determined by observation that the cadmium concentration cause the cumulative noncancer hazard quotient to exceed site-specific residential standards, however it will pass site-specific nonresidential standards. Use of this area should be restricted to nonresidential. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 78
Range 1 Soils – AOC4-29 (mg/kg)

Analyte	SB-59	Statewide Standard
Metals		
Arsenic	1.49	1.9
Mercury	0.116	23
Barium	41	5,500
Cadmium	42	39
Chromium	19	240
Lead	34	400

4.4 Other Samples

Water and sediment samples from outfalls, sumps and floor drains were also collected during this Phase II ESA. For the purpose of evaluating the data collected, water samples from sources that make their way to Virden Creek will be compared with Surface Water Quality Criteria from IAC 567-61.3(455B). Virden Creek flows into the Cedar River downstream of the bridge over Highway 30. At this point the Cedar River has designated uses of primary contact recreational (Class A1) and significant resource warm water (Class B(WW)).

AOC1-18: Outfall #001

One water and one sediment sample were collected from the plant Outfall #001 (GW-1) to Virden Creek. The samples were analyzed for cyanide, RCRA metals, PCBs, SVOCs and VOCs. Laboratory reports and chain of custody documents are in Appendix D.

Analytical results of the water sample identified two RCRA metals, cyanide and one VOC. No PCBs or SVOCs were found above the MDLs. None of the contaminants exceeded surface water quality criteria. It can be determined by observation that the cumulative health risk will not exceed allowable limits. No further action is required for water in this AOC. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 79
Water – AOC1-18 (mg/L)

Analyte	GW-1	Surface Water Quality Criteria
Metals		
Mercury	0.000060	0.0021
Barium	0.024	None
Cyanide	0.0048	0.010
VOCs		
Chloromethane	0.00028	None

Analytical results of the sediment sample identified six RCRA metals and cyanide. No SVOCs, VOCs or PCBs were found above the MDLs. Arsenic was the only contaminant exceeding a statewide standard. The sediment should be removed from the outfall sump and piping, evaluated to determine if it's a RCRA waste and properly disposed. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 80
Sediment– AOC1-18 (mg/kg)

Analyte	GW-1	Statewide Standard
Metals		
Arsenic	5.42	1.9
Mercury	0.073	23
Barium	27	5,500
Cadmium	0.92	39
Chromium	45	230
Lead	32	400
Cyanide	0.196	1,600

AOC5-2: Open Floor Drains

One sediment sample (FD-3) was collected from the floor drain in Building 12. The sample was analyzed for cyanide, RCRA metals, PCBs, SVOCs and VOCs. Laboratory reports and chain of custody documents are in Appendix D.

Analytical results of the sediment sample identified cyanide, seven RCRA metals, three SVOCs, eight VOCs and one PCB. Of the RCRA metals, arsenic and chromium were above statewide standards. PCB-1254 was the only other contaminant with a concentration exceeding a statewide standard. The sediment should be removed from the floor drain, evaluated to determine if it's a RCRA waste and properly disposed. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 81
Sediment- AOC5-2 (mg/kg)

Analyte	FD-3	Statewide Standard
Metals		
Arsenic	2.56	1.9
Mercury	0.0017	23
Barium	2,870	5,500
Cadmium	19	39
Chromium	276	230
Lead	254	400
Silver	1.7	390
Cyanide		
	0.463	1,600
SVOCs		
Bis(2-ethylhexyl)phthalate	10.4	170
Di-n-butylphthalate	5.3	None
Pentachlorophenol	2.5	81
VOCs		
Acetone	0.812	70,000
Benzene	0.00159	58
Methyl Ethyl Ketone (MEK)	0.0250	47,000
Chloroethane	0.00891	None
Ethylbenzene	0.00094	7,800
Toluene	0.00359	16,000
1,1,1-TCA	0.00978	16,000
TCE	0.0164	8.0
PCBs		
PCB-1254	3.43	1.1

AOC5-9: Outfall #002

One water and one sediment sample were collected from the plant Outfall #002 (OF-2) to Virden Creek. The samples were analyzed for cyanide, RCRA metals, PCBs, SVOCs and VOCs. Laboratory reports and chain of custody documents are in Appendix D.

Analytical results of the water sample identified two RCRA metals, cyanide and one VOC. No PCBs or SVOCs were found above the MDLs. Lead was the only contaminant to exceed surface water quality criteria. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 82
Water – AOC5-9 (mg/L)

Analyte	OF-2	Surface Water Quality Criteria
Metals		
Arsenic	0.00319	0.20
Mercury	0.000122	0.0021
Barium	0.078	None
Cadmium	0.00585	0.015
Chromium	0.022	0.04
Lead	0.06274	0.03
Selenium	0.0031	0.125
Cyanide		
	0.0031	0.01
VOCs		
Chloromethane	0.0017	None

Analytical results of the sediment sample identified six RCRA metals, cyanide, 22 SVOCs and eight VOCs. No PCBs were found above the MDL. Arsenic and four SVOCs, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(a,h)anthracene, exceeded statewide standards. The sediment should be removed from the outfall sump and piping, evaluated to determine if it's a RCRA waste and properly disposed. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 83
Sediment- AOC5-9 (mg/kg)

Analyte	OF-2	Statewide Standard
Metals		
Arsenic	3.03	1.9
Mercury	0.000047	23
Barium	35	5,500
Cadmium	2.7	39
Chromium	27	230
Lead	26	400
Cyanide		
	0.334	1,600
SVOCs		
Acenaphthene	4.4	3,400
Acenaphthylene	2.8	None
Anthracene	8.64	17,000
Benzo(a)anthracene	16.6	3.1
Benzo(b)fluoranthene	12.8	3.1
Benzo(k)fluoranthene	13.3	31
Benzo(a)pyrene	14.7	0.31
Benzo(g,h,i)perylene	8.26	None
Bis(2-ethylhexyl)phthalate	1.1	170
Carbazole	6.0	120
Chrysene	18.4	310
Dibenzo(a,h)anthracene	2.0	0.31
Dibenzofuran	3.6	240
Dimethyl phthalate	1.5	610,000
2,4-Dinitrotoluene	11.1	120
Fluoranthene	47.0	2,300
Fluorene	6.1	2,300
Indeno(1,2,3-cd)pyrene	9.35	3.1
2-Methylnaphthalene	1.8	240
Naphthalene	3.7	1,100
Phenanthrene	40.5	None
Pyrene	35.1	1,700
VOCs		
Acetone	0.0374	70,000
n-Butyl benzene	0.0070	None
Ethylbenzene	0.00253	7,800
Isopropylbenzene	0.00291	None
Methyl isobutyl ketone	0.0213	6,300
Naphthalene	0.0134	1,100
Toluene	0.00446	16,000
1,2,4-Trimethylbenzene	0.0161	3,900

AOC6-11: Sumps 1 and 1B

One sediment sample (Sump-1B) and two water samples (Sump-1 and Sump-1B) were collected from sumps in Building 15. The sample was analyzed for cyanide, RCRA metals, PCBs, SVOCs and VOCs. Laboratory reports and chain of custody documents are in Appendix D.

Analytical results of the water samples identified two RCRA metals, two SVOCs and five VOCs. No cyanide or PCBs were identified above the MDL. None of the contaminants identified exceeded surface water quality criteria. The sumps may be pumped out then discharged to the storm sewer. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 84
Water- AOC6-11 (mg/L)

Analyte	Sump-1	Sump-1B	Surface Water Criteria
Metals			
Mercury	0.054	0.074	0.2
Barium	0.038	0.062	None
SVOCs			
Bis(2-ethylhexyl)phthalate	0.0473	<0.0152	None
Di-n-butylphthalate	0.00324	<0.0124	None
VOCs			
Carbon Disulfide	<0.00025	0.00042	None
Chloroethane	0.00029	0.00023	None
Chloromethane	<0.00025	0.00036	None
1,2-Dichloropropane	0.00014	<0.00012	None
Toluene	<0.00040	0.00075	0.050

Analytical results of the sediment sample identified six RCRA metals, cyanide, one SVOC and five VOCs. No PCBs were found above the MDL. Arsenic and lead concentrations exceeded statewide standards. No other contaminants exceeded a statewide standard. The sediment should be removed from the sump, evaluated to determine if it's a RCRA waste and properly disposed. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 85
Sediment- AOC6-11 (mg/kg)

Analyte	Sump 1B	Statewide Standard
Metals		
Arsenic	17.2	1.9
Mercury	0.11	23
Barium	180	5,500
Cadmium	9.2	39
Chromium	130	230
Lead	63,300	400
Cyanide		
	1.66	1,600
SVOCs		
Bis(2-ethylhexyl)phthalate	5.4	170
VOCs		
Acetone	0.0852	70,000
Benzene	0.00321	58
Methyl Ethyl Ketone (MEK)	0.00307	47,000
Ethylbenzene	0.0019	7,800
TCE	0.00440	8.0

AOC6-26: Sump 2

One sediment sample and one water sample were collected from sump (Sump-2) in Building 20. The sample was analyzed for cyanide, RCRA metals, PCBs, SVOCs and VOCs. Laboratory reports and chain of custody documents are in Appendix D.

Analytical results of the water samples identified seven RCRA metals and one VOC. No cyanide, SVOCs or PCBs were identified above the MDL. None of the contaminant concentrations exceeded surface water criteria. The sump may be pumped out and discharged to the storm sewer. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 86
Water- AOC6-26 (mg/L)

Analyte	Sump-2	Surface Water Quality Criteria
Metals		
Arsenic	0.00107	0.2
Mercury	0.00082	0.0021
Barium	0.024	None
Cadmium	0.00091	0.015
Chromium	0.0089	0.040
Lead	0.01738	0.030
Selenium	0.0019	0.125
VOCs		
Chloromethane	0.00035	None

Analytical results of the sediment sample identified six RCRA metals, cyanide, one SVOC and one VOC. No PCBs were found above the MDL. Arsenic, chromium and lead concentrations exceeded statewide standards. No other contaminants exceeded a statewide standard. The sediment should be removed from the sump, evaluated to determine if it's a RCRA waste and properly disposed. The results of the Phase II ESA are tabulated below. Only contaminants with detectable concentrations are listed in the table.

Table 87
Sediment- AOC6-26 (mg/kg)

Analyte	Sump-2	Statewide Standard
Metals		
Arsenic	8.78	1.9
Mercury	0.229	23
Barium	140	5,500
Cadmium	9.0	39
Chromium	273	230
Lead	420	400
Cyanide		
	0.806	1,600
SVOCs		
Bis(2-ethylhexyl)phthalate	32.8	170
VOCs		
tert-Butylbenzene	0.015	None

4.5 Local Maxima Evaluated Against Relevant Standards

4.5.1 Statewide Standards

The statewide standard for each contaminant was determined by using the "Summary of Simplified Risk-Based Formulae for Determining Groundwater and Soil Response Action Standards."

Calculations for statewide standards are in Appendix G.

4.5.2 Site-Specific Standards

To determine compliance with the calculated site-specific standards, the contaminants identified in each AOC at the site were divided into their respective Cancer Groups. The Cancer Groups are designated as follows:

- Group A—Human Carcinogen
- Group B—Probable Human Carcinogen
- Group C—Possible Human Carcinogen
- Group D—Not Classifiable as to Human Carcinogenicity
- Group E—Evidence of Noncarcinogenicity for Humans¹

For the calculations for site-specific standards, the contaminants were first separated into their Cancer Groups. The 95 percent upper confidence limit (UL_{95}) was calculated for each contaminant in which a slope factor was used to determine the response action standard. The UL_{95} was divided by the statewide standard². The sum of the dividends was then multiplied by $5.0E-06^3$ to determine compliance with the site-specific residential standard of $1.0E-04$.

The UL_{95} was calculated for each contaminant in which a reference dose was used to determine the response action standard. The UL_{95} was divided by the statewide standard⁴. The sum of the dividends was then compared to the maximum hazard quotient of 1.

Calculations for compliance with site-specific standards are in Appendix G.

4.5.3 Statistical Tests

For individual contaminants, per the decision rule, if it can be demonstrated that 75% of the samples have concentrations below the standard and none of the sample locations have a concentration exceeding ten times the standard (75%-10x test), then the AOC is in compliance with standards. Alternately, if the UL_{95} of the arithmetic mean (UL_{95} test) of the contaminant concentrations is below the standard, the site is in compliance with standards.⁵

¹ Iowa Administrative Code 567-137.2

² Divide by the site-specific nonresidential standard to determine compliance for nonresidential use.

³ Per correspondence from Matt Culp from IDNR dated August 17, 2004.

⁴ Divide by the site-specific nonresidential standard to determine compliance for nonresidential use.

⁵ IAC 137.10(6).

4.5.4 Evaluations

To evaluate overall compliance of soil and groundwater in an AOC, the cumulative concentrations of contaminants in soil or groundwater must meet standards limiting increased cancer risk and increased noncancer health risk. Each AOC is evaluated for increased risk below.

AOC1-1: Aluminum Machining

The soil borings evaluated for this AOC include borings SB-13, SB-14, SB-15 and SB-16.

The cumulative increased cancer risk for a residential scenario in Range 1 soil is 1.6E-05, which is less than the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 88 below.

The cumulative hazard quotient for noncancer health risk is 0.25, which is less than the site-specific residential standard of 1. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 89 below. Calculations are in Appendix G.

Table 88
AOC1-1: Aluminum Machining Compliance with Residential Standards for
Increased Cancer Risk
Range 1 Soil

Contaminant	UL ₉₅ (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	1.93	1.9	1.0E+00
Lead	9.57	400	2.4E-02
Benzo(a)anthracene	0.22	3.1	7.0E-02
Benzo(b)fluoranthene	0.22	3.1	7.0E-02
Benzo(k)fluoranthene	0.28	31	9.2E-03
Benzo(a)pyrene	0.28	0.31	9.2E-01
Chrysene	0.19	310	6.2E-04
Indeno(1,2,3-c,d)pyrene	0.19	3.1	6.2E-02
Benzene	0.0048	58	8.2E05
Chloroform	0.0030	520	5.7E-06
PCE	0.056	61	9.2E-04
TCE	0.58	8.0	7.2E-02
PCB-1254	0.96	1.1	8.8E-01
Total of UL ₉₅ /Statewide Standard			3.1
Multiplied by 5.00E-06			1.6E-05

Table 89
AOC1-1: Aluminum Machining Compliance with Residential Standards for
Increased Noncancer Health Risk
Range 1 Soil

Contaminant	UL ₉₅ (mg/kg)	Statewide Standard (mg/kg) ¹	UL ₉₅ / Statewide Standard
Arsenic	1.93	22	8.8E-02
Mercury	0.013	23	5.6E-04
Barium	35	5,500	6.5E-03
Cadmium	1.1	39	2.8E-02
Chromium	24	230	1.0E-01
Fluoranthene	0.26	2,300	1.1E-04
Pyrene	0.31	1,700	1.8E-04
Acetone	0.028	70,000	3.9E-07
Benzene	0.0048	310	1.5E-05
Chloroform	0.0030	780	3.8E-06
1,1-DCA	0.00084	7,800	1.1E-07
cis 1,2-DCE	0.015	780	2.0E-05
Ethylbenzene	0.0033	7,800	4.3E-07
PCE	0.056	780	7.2E-05
Toluene	0.0081	16,000	5.0E-07
1,1,1-TCA	0.12	16,000	7.4E-06
TCE	0.57	23	2.5E-02
Trichlorofluoromethane	0.0015	23,000	6.3E-08
Total of UL₉₅/Statewide Standard			0.25

The cumulative increased cancer risk for a residential scenario in Range 2 soil is 4.0E-06, which is less than the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 90 below.

Table 90
AOC1-1: Aluminum Machining Compliance with Residential Standards for
Increased Cancer Risk
Range 2 Soil

Contaminant	SB-15 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	1.4	1.9	0.74
Lead	6.9	400	0.02
PCE	0.0335	61	0.0
TCE	0.224	8.0	0.03
Total of UL ₉₅ /Statewide Standard			0.79
Multiplied by 5.00E-06			4.0E-06

¹ For contaminants with both a slope factor and reference dose, the reference dose is used to calculate the standard for noncancer health risks.

AOC1-13: Bitumen Tank

The groundwater monitoring well evaluated for this AOC was MW-1.

The cumulative increased cancer risk for a protected groundwater scenario is 6.0E-04, which is greater than the site-specific standard of 1.0E-04. Groundwater was further evaluated against the nonprotected groundwater standard. The calculations for protected groundwater are summarized in Table 94 below.

The cumulative increased noncancer hazard quotient for protected groundwater 120, which is greater than the site-specific protected groundwater hazard quotient of 1. Normally the next step would be to break down the noncancer contaminants by target organ. In the case of this AOC, however, the increased noncancer health risk is almost entirely due to one chemical, TCE, so sorting according to target organ would accomplish nothing. The noncancer health risks are further evaluated against nonprotected groundwater standards. The calculations are summarized in Table 95 below. Calculations are in Appendix G.

Table 94
AOC1-13: Bitumen Tank Compliance with Protected Groundwater Standards for Increased Cancer Risk

Contaminant	UL ₉₅ (mg/L)	Protected Groundwater Standard (mg/L)	UL ₉₅ / Protected Groundwater Standard
PCE	0.00101	0.005	0.20
1,1,2-TCA	0.00020	0.005	0.040
TCE	0.607	0.005	120
Total of UL ₉₅ /Protected Groundwater Standard			120
Multiplied by 5.00E-06			6.0E-04

Table 95
AOC1-13: Bitumen Tank Compliance with Protected Groundwater Standards for Increased Noncancer Health Risk

Contaminant	UL ₉₅ (mg/L)	Protected Groundwater Standard (mg/L)	UL ₉₅ / Protected Groundwater Standard
1,1-DCA	0.0069	0.070	0.062
cis 1,2-DCE	0.155	0.070	2.2
trans 1,2-DCE	0.00097	0.10	0.010
PCE	0.00101	0.070	0.014
1,1,1-TCA	0.0030	0.20	0.021
1,1,2-TCA	0.00020	0.028	0.0071
TCE	0.607	0.005	120
Total of UL ₉₅ /Protected Groundwater Standard			120

The cumulative increased cancer risk for a nonprotected groundwater scenario is 3.5E-04, which is greater than the site-specific standard of 1.0E-04. Risk evaluation and response action must be taken for groundwater. The calculations are summarized in Table 96 below.

The cumulative increased noncancer hazard quotient for protected groundwater 56, which is greater than the site-specific nonprotected groundwater hazard quotient of 1. The risk evaluation and response action must also take into account noncarcinogens in groundwater. The calculations are summarized in Table 97 below. Calculations are in Appendix G.

Table 96
AOC1-13: Bitumen Tank Compliance with Nonprotected Groundwater Standards for Increased Cancer Risk

Contaminant	UL ₉₅ (mg/L)	Nonprotected Groundwater Standard (mg/L)	UL ₉₅ / Nonprotected Groundwater Standard
PCE	0.00101	0.067	0.015
1,1,2-TCA	0.00020	0.014	0.014
TCE	0.607	0.0088	69
Total of UL ₉₅ /Nonprotected Groundwater Standard			69
Multiplied by 5.00E-06			3.5E-04

Table 97
AOC1-13: Bitumen Tank Compliance with Nonprotected Groundwater Standards for Increased Noncancer Health Risk

Contaminant	UL ₉₅ (mg/L)	Nonprotected Groundwater Standard (mg/L)	UL ₉₅ / Nonprotected Groundwater Standard
1,1-DCA	0.0069	0.35	0.012
cis 1,2-DCE	0.155	0.35	0.44
trans 1,2-DCE	0.00097	0.70	0.0014
PCE	0.00101	0.35	0.0029
1,1,1-TCA	0.0030	7.0	0.00043
1,1,2-TCA	0.00020	0.14	0.0014
TCE	0.607	0.011	55
Total of UL ₉₅ /Nonprotected Groundwater Standard			56

AOC1-15: Disturbed Ground and Possible Buried Drums

The soil borings evaluated for this AOC include borings SB-1, SB-2, SB-3, SB-4, SB-5, SB-6 and SB-7.

The cumulative increased cancer risk for a residential scenario in Range 1 soil is exactly 1.0E-04, which meets the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 98 below.

The cumulative increased noncancer hazard quotient for residential Range 1 soil is 0.89, which is less than the site-specific residential hazard quotient of 1. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 99 below. Calculations are in Appendix G.

Table 98
AOC1-15: Disturbed Ground and Possible Buried Drums
Compliance with Residential Standards for Increased Cancer Risk
Range 1 Soil

Contaminant	UL ₉₅ (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	3.4	1.9	2
Lead	160	400	0
Benzo(a)anthracene	3.4	3.1	1
Benzo(b)fluoranthene	2.6	3.1	1
Benzo(k)fluoranthene	2.5	31	0
Benzo(a)pyrene	3.2	0.31	10
Bis(2-ethylhexyl)phthalate	17	170	0
Carbazole	0.58	120	0
Chrysene	3.0	310	0
Dibenzo(a,h)anthracene	1.1	0.31	4
Indeno(1,2,3-c,d)pyrene	2.0	3.1	1
Isophorone	0.87	1,200	0
Benzene	1.9	58	0
cis 1,2-DCE	0.63	520	0
PCE	0.43	61	0
TCE	11	8.0	1
Total of UL ₉₅ /Statewide Standard			20
Multiplied by 5.00E-06			1.0E-04

Table 101
AOC1-15: Disturbed Ground and Possible Buried Drums
Compliance with Residential Standards for Increased Noncancer Risk
Range 2 Soil

Contaminant	UL ₉₅ (mg/kg)	Statewide Standard (mg/kg) ¹	UL ₉₅ /Statewide Standard
Arsenic	68.7	22	3.1
Mercury	0.006	23	0.0
Barium	3,420	5,500	0.6
Cadmium	116	39	3.0
Chromium	393	230	1.7
Silver	17	390	0.0
Cyanide	3.7	1,600	0.0
Acenaphthene	1.5	3,400	0.0
Anthracene	0.24	17,000	0.0
Bis(2-ethylhexyl)phthalate	0.2	1,200	0.0
Dibenzofuran	1.2	240	0.0
Fluoranthene	0.6	2,300	0.0
Fluorene	0.6	2,300	0.0
2-Methylnaphthalene	1.0	240	0.0
Naphthalene	2.0	1,100	0.0
N-Nitrosodiphenylamine	2.0	1,200	0.0
Pyrene	0.6	1,700	0.0
2,4-Dichlorophenol	0.4	180	0.0
Acetone	20	70,000	0.0
Benzene	0.4	310	0.0
cis 1,2-DCE	0.6	780	0.0
Ethylbenzene	0.4	7,800	0.0
PCE	0.4	780	0.0
Toluene	1.0	16,000	0.0
1,2,4-Trichlorobenzene	3.3	780	0.0
TCE	5	23	0.2
1,2,4-Trimethylbenzene	3.3	3,900	0.0
1,2,5-Trimethylbenzene	3.3	3,900	0.0
Xylenes	3.3	16,000	0.0
Total of UL₉₅/Statewide Standard			8.7

The cumulative increased cancer risk for a nonresidential scenario in Range 2 soil is 3.8E-06, which is below the site-specific nonresidential standard of 1.0E-04. Range 2 soil will need to be restricted to nonresidential use. The calculations are summarized in Table 102 below.

¹ For contaminants with both a slope factor and reference dose, the reference dose is used to calculate the standard for noncancer health risks.

The cumulative noncancer hazard quotient is 1.74, which is greater than the site-specific nonresidential hazard quotient of 1. The contaminants would normally be further divided by target organ, then the hazard quotient recalculated. However, none of the contaminants contributing to the excessive hazard quotients have target organs identified by EPA. Therefore, risk evaluation and response action will be required for Range 2 soil. The calculations are summarized in Table 103 below. Calculations are in Appendix G.

Table 102
AOC1-15: Disturbed Ground and Possible Buried Drums
Compliance with Nonresidential Standards for Increased Cancer Risk
Range 2 Soil

Contaminant	UL ₉₅ (mg/kg)	Nonresidential Standard (mg/kg)	UL ₉₅ / Nonresidential Standard
Arsenic	68.7	1,700	0.04
Lead	790	1,100	0.72
Benzo(a)anthracene	0.3	2,700	0.00
Benzo(b)fluoranthene	0.3	2,700	0.00
Benzo(k)fluoranthene	0.3	27,000	0.00
Benzo(a)pyrene	0.3	270	0.00
Bis(2-ethylhexyl)phthalate	0.2	150,000	0.00
Chrysene	0.4	270,000	0.00
Indeno(1,2,3-c,d)pyrene	0.3	2,700	0.00
N-Nitrosodiphenylamine	0.2	430,000	0.00
Benzene	0.4	49,000	0.00
PCE	0.4	52,000	0.00
TCE	5	6,800	0.00
Total of UL ₉₅ /Nonresidential Standard			0.76
Multiplied by 5.00E-06			3.8E-06

Table 103
AOC1-15: Disturbed Ground and Possible Buried Drums
Compliance with Nonresidential Standards for Increased Noncancer Risk
Range 2 Soil

Contaminant	UL ₉₅ (mg/kg)	Noncancer Nonresidential Standard (mg/kg)	UL ₉₅ / Noncancer Nonresidential Standard
Arsenic	68.7	110	0.62
Mercury	0.006	120	0.00
Barium	3,420	27,000	0.13
Cadmium	116	190	0.61
Chromium	393	1,200	0.33
Silver	17	1,900	0.01
Cyanide	3.7	7,700	0.00
Acenaphthene	1.5	17,000	0.00
Anthracene	0.24	84,000	0.00
Bis(2-ethylhexyl)phthalate	0.2	6,000	0.00
Dibenzofuran	1.2	1,200	0.00
Fluoranthene	0.6	11,000	0.00
Fluorene	0.6	11,000	0.00
2-Methylnaphthalene	1.0	1,200	0.00
Naphthalene	2.0	5,600	0.00
N-Nitrosodiphenylamine	2.0	6,000	0.00
Pyrene	0.6	8,400	0.00
2,4-Dichlorophenol	0.4	890	0.00
Acetone	20	350,000	0.00
Benzene	0.4	1,500	0.00
cis 1,2-DCE	0.6	3,900	0.00
Ethylbenzene	0.4	39,000	0.00
PCE	0.4	3,900	0.00
Toluene	1.0	77,000	0.00
1,2,4-Trichlorobenzene	3.3	3,900	0.00
TCE	5	120	0.04
1,2,4-Trimethylbenzene	3.3	19,000	0.00
1,2,5-Trimethylbenzene	3.3	19,000	0.00
Xylenes	3.3	77,000	0.00
Total of UL₉₅/Noncancer Nonresidential Standard			1.74

The groundwater monitoring well evaluated for this AOC was MW-1. Please refer to groundwater evaluation for AOC1-13.

**AOC1-16: Foundry Sand Fill and
 AOC1-29: Disturbed Ground**

The groundwater monitoring well evaluated for this AOC was MW-7.

The cumulative increased cancer risk for protected groundwater is 9.7E-05, which is less than the site-specific residential standard of 1.0E-04. Because of the exceedences of statewide and nonprotected groundwater standards by 1,1-DCE, PCE, and TCE, a risk evaluation, then response action will be required. The calculations are summarized in Table 104 below.

The cumulative noncancer health risk hazard quotient is 15, which is greater than the site-specific residential standard of 1. Because of the exceedences of statewide and nonprotected groundwater standards by *cis* 1,2-DCE and TCE, a risk evaluation, then response action will be required. The calculations are summarized in Table 105 below.

**Table 104
 AOC1-16: Foundry Sand Fill and AOC1-29: Disturbed Ground
 Compliance with Protected Groundwater Standards for Increased Cancer Risk**

Contaminant	UL ₉₅ (mg/L)	Protected Groundwater Standard (mg/L)	UL ₉₅ /Protected Groundwater Standard
Arsenic	0.00077	0.01	0.077
Bis(2-ethylhexyl)phthalate	0.0042	0.013	0.33
Chloromethane	0.00068	0.013	0.052
1,1-DCE	0.012	0.007	1.8
PCE	0.021	0.005	4.3
1,1,2-TCA	0.00074	0.005	0.15
TCE	0.064	0.005	13
Total of UL ₉₅ /Protected Groundwater Standard			19
Multiplied by 5.00E-06			9.7E-05

Table 105
AOC1-16: Foundry Sand Fill and AOC1-29: Disturbed Ground
Compliance with Protected Groundwater Standards for Increased Noncancer
Health Risk

Contaminant	UL ₉₅ (mg/L)	Protected Groundwater Standard (mg/L)	UL ₉₅ / Protected Groundwater Standard
Arsenic	0.00077	0.01	0.077
Mercury	0.000064	0.002	0.032
Barium	0.19	2.0	0.093
Cyanide	0.12	0.20	0.62
Bis(2-ethylhexyl)phthalate	0.0042	0.14	0.030
Chloromethane	0.00068	0.028	0.024
1,1-DCA	0.017	0.070	0.24
1,1-DCE	0.012	0.35	0.035
cis 1,2-DCE	0.078	0.07	1.1
trans 1,2-DCE	0.00068	0.10	0.0068
PCE	0.021	0.070	0.31
1,1,1-TCA	0.032	0.20	0.16
1,1,2-TCA	0.00074	0.028	0.026
TCE	0.064	0.005	13
Total of UL₉₅/Protected Groundwater Standard			15

AOC3-12: Gage Lab, Vent Hood and Former DU Area
 The soil boring evaluated for this AOC was SB-51.

The cumulative increased cancer risk for a residential scenario in Range 1 soil is exactly 1.2E-05, which meets the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 106 below.

The cumulative noncancer hazard quotient is 4.7, which exceeds the site-specific residential hazard quotient of 1. Range 1 soil will be checked against nonresidential standards. The calculations are summarized in Table 107 below.

Table 106
AOC3-12: Gage Lab, Vent Hood and Former DU Area
Compliance with Residential Standards for Increased Cancer Risk
Range 1 Soil

Contaminant	SB-51 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	3.8	1.9	2.0
Lead	121	400	0.3
Chrysene	0.2	310	0.0
Total of UL ₉₅ /Statewide Standard			2.3
Multiplied by 5.00E-06			1.2E-05

Table 107
AOC3-12: Gage Lab, Vent Hood and Former DU Area
Compliance with Residential Standards for Increased Noncancer Risk
Range 1 Soil

Contaminant	SB-51 (mg/kg)	Statewide Standard (mg/kg) ¹	UL ₉₅ / Statewide Standard
Arsenic	3.8	22	0.2
Mercury	9.8	23	0.4
Barium	2,420	5,500	0.4
Cadmium	132	39	3.4
Chromium	67	230	0.3
Fluoranthene	0.3	2,300	0.0
Pyrene	0.29	1,700	0.0
Total of UL₉₅/Statewide Standard			4.7

The cumulative noncancer hazard quotient is 0.95, which is below the site-specific nonresidential hazard quotient of 1. Range 1 should be restricted to nonresidential use. The calculations are summarized in Table 108 below.

Table 108
AOC3-12: Gage Lab, Vent Hood and Former DU Area
Compliance with Nonresidential Standards for Increased Noncancer Risk
Range 1 Soil

Contaminant	SB-51 (mg/kg)	Noncancer Nonresidential Standard (mg/kg)	UL ₉₅ / Noncancer Nonresidential Standard
Arsenic	3.8	110	0.03
Mercury	9.8	120	0.08
Barium	2,420	27,000	0.09
Cadmium	132	190	0.69
Chromium	67	1,200	0.06
Fluoranthene	0.3	12,000	0.0
Pyrene	0.29	9,200	0.0
Total of UL₉₅/Noncancer Nonresidential Standard			0.95

¹ For contaminants with both a slope factor and reference dose, the reference dose is used to calculate the standard for noncancer health risks.

**AOC4-22: Sludge Drying Oven; and
 AOC4-28: Machining Area**

The soil boring evaluated for these AOCs was SB-61.

The cumulative increased cancer risk for a residential scenario in Range 1 soil is exactly 1.9E-05, which meets the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 109 below.

The cumulative noncancer health hazard quotient is 4.8, which is greater than the site-specific residential standard of 1. Range 1 soil will be checked against the site-specific nonresidential standard. The calculations are summarized in Table 110 below.

**Table 109
 AOC4-22: Sludge Drying Oven and AOC4-28: Machining Area
 Compliance with Residential Standards for Increased Cancer Risk
 Range 1 Soil**

Contaminant	SB-61 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	6.55	1.9	3.5
Lead	83	400	0.2
Total of UL ₉₅ /Statewide Standard			3.7
Multiplied by 5.00E-06			1.9E-05

**Table 110
 AOC4-22: Sludge Drying Oven and AOC4-28: Machining Area
 Compliance with Residential Standards for Increased Noncancer Health Risk
 Range 1 Soil**

Contaminant	SB-61 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	6.55	22	0.3
Mercury	0.02078	23	0.0
Barium	51	5,500	0.0
Cadmium	176	39	4.5
Chromium	7.8	230	0.0
Total of UL ₉₅ /Statewide Standard			4.8

The cumulative noncancer hazard quotient is 1.0, which is meets the site-specific nonresidential hazard quotient of 1. Range 1 should be restricted to nonresidential use. The calculations are summarized in Table 111 below.

¹ For contaminants with both a slope factor and reference dose, the reference dose is used to calculate the standard for noncancer health risks.

Table 111
AOC4-22: Sludge Drying Oven and AOC4-28: Machining Area
Compliance with Nonresidential Standards for Increased Noncancer Health Risk
Range 1 Soil

Contaminant	SB-61 (mg/kg)	Nonresidential Noncancer Standard (mg/kg)	UL ₉₅ / Nonresidential Noncancer
Arsenic	6.55	110	0.06
Mercury	0.02078	120	0.00
Barium	51	27,000	0.00
Cadmium	176	190	0.93
Chromium	7.8	1,200	0.01
Total of UL₉₅/Nonresidential Noncancer Standard			1.0

AOC4-27: Chrome Plating

The soil boring evaluated for this AOC SB-62.

The cumulative increased cancer risk for a residential scenario in Range 1 soil is exactly 1.7E-05, which meets the site-specific residential standard of 1.0E-04. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 112 below.

The cumulative noncancer health hazard quotient is 0.7, which is less than the site-specific residential standard of 1. No further action is required for these contaminants in Range 1. The calculations are summarized in Table 113 below.

Table 112
AOC4-27: Chrome Plating
Compliance with Residential Standards for Increased Cancer Risk
Range 1 Soil

Contaminant	SB-62 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	5.8	1.9	3.1
Lead	70.3	400	0.2
Total of UL ₉₅ /Statewide Standard			3.3
Multiplied by 5.00E-06			1.7E-05

Table 113
AOC4-27: Chrome Plating
Compliance with Residential Standards for Increased Noncancer Risk
Range 1 Soil

Contaminant	SB-62 (mg/kg)	Statewide Standard (mg/kg)	UL ₉₅ / Statewide Standard
Arsenic	5.8	22	0.3
Mercury	0.0223	23	0.0
Barium	208	5,500	0.0
Cadmium	13.5	39	0.3
Chromium	13.1	230	0.1
Total of UL₉₅/Statewide Standard			0.7

¹ For contaminants with both a slope factor and reference dose, the reference dose is used to calculate the standard for noncancer health risks.

5.0 FINDINGS AND CONCLUSIONS

Radiological Survey

A radiological survey conducted in accordance MARSSIM did not identify any areas with radiological contamination greater than twice background. The results indicate that no radiological contamination is present at the site and no further action is required based on radiological concerns.

Geophysical Investigation

Twelve anomalies of unknown origin were identified by the geophysical investigation. Five of the 12 are small, having dimensions of approximately five feet by three feet. Three of the anomalies have a broad profile much like a large UST or pipe. Around these three are smaller profiles that could possibly represent buried drums. Investigation of the areas of potentially buried drums and USTs should be conducted.

Soil and Groundwater Assessment

The Phase II ESA identified widespread groundwater contamination from chlorinated solvents and localized groundwater contamination from total extractable hydrocarbons (TEH).

AOCs 1-1, 1-11, 1-15, 1-16, 3-12, 4-22, 4-24, 4-27, 4-28 and 4-29 exceeded statewide standards for soil. Shallow, Range 1, soil is impacted above site-specific residential standards in AOCs 1-11, 1-16, 3-12, 4-22, 4-28 and 4-29. Deeper, Range 2, soil is impacted above site-specific residential standards in AOCs 1-15 and 4-24.

Due to limited funding, this Phase II ESA evaluated only Areas 1 through 4 and select surface samples in Areas 5 and 6 on the former Chamberlain Manufacturing property. Refer to the Site Map in Appendix B. The Phase II ESA findings and conclusions are summarized in the Table 114:

Other Samples

Water from one of the outfalls to Virden Creek has lead concentrations exceeding surface water criteria for a Class A1 and Class B(WW) stream.

Sediment from outfalls to Virden Creek has heavy metals and SVOCs in concentrations that exceed statewide standards. Sediment collected from floor drains has concentrations of metals and PCBs exceeding statewide standards. Sediment collected from sumps has metals in concentrations exceeding statewide standards.

Refer to the Site Map in Appendix B. The Phase II ESA findings and conclusions are summarized in the Table 114.

Table 114
Findings and Conclusions

AOC	Description	Matrix	Detected	Exceeds Applicable Standards	Investigated Cumulative Effects
1-1	Aluminum Machining	Range 1 Soil	Metals, SVOCs, VOCs, PCBs	Arsenic	Yes
		Range 2 Soil	Metals, SVOCs, VOCs	None	Not Required
		Groundwater	VOCs	TCE	Not Required
1-2	Secondary Containment	Range 1 Soil	Metals, VOCs	None	Not Required
1-3	Parts Washing	Range 1 Soil	None	None	Not Required
1-4	Steel Cutting	Range 1 Soil	None	None	Not Required
1-5	Storage/Draining of Oily Metal Cuttings	Range 1 Soil	TEH	None	Not Required
		Range 2 Soil	None	None	Not Required
		Groundwater	TEH	TEH-wo	Not Required
1-6	Container Storage Area	Range 1 Soil	VOCs	None	Not Required
		Range 2 Soil	VOCs	None	Not Required
1-7	90-Day Hazardous Waste Storage Area	Range 1 Soil	Metals	None	Not Required
1-8	DU Storage, Shipping and Receiving	Range 1 Soil	None	None	Not Required
1-9	Aluminum Machining	Range 1 Soil	VOCs	None	Not Required
1-10	Solvent Storage Tank	Range 1 Soil	VOCs	None	Not Required
		Range 2 Soil	VOCs	None	Not Required
		Groundwater	VOCs	TCE	Not Required
1-11	Heating Oil/Waste Oil Above Ground Storage Tanks	Range 1 Soil	SVOCs, VOCs, BTEX, TEH	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, TCE	Yes
		Range 2 Soil	SVOCs, VOCs, BTEX, TEH	None	Not Required
		Groundwater	None	None	Not Required
1-12	Pump Island	Range 1 Soil	BTEX, TEH	None	Not Required
		Range 2 Soil	TEH	None	Not Required
		Groundwater	None	None	Not Required
1-13	Bitumen Tank	Range 1 Soil	VOCs	None	Not Required
		Range 2 Soil	SVOCs, VOCs	None	Not Required
		Groundwater	VOCs	cis 1,2-DCE, TCE	Yes
1-15	Disturbed Ground and Possible Buried Drums	Range 1 Soil	Metals, Cyanide, SVOCs, VOCs	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, TCE	Yes
		Range 2 Soil	Metals, Cyanide, SVOCs, VOCs	Arsenic, Lead, Cadmium, Chromium	Yes
		Groundwater	VOCs	cis 1,2-DCE, TCE	Yes

AOC	Description	Matrix	Detected	Exceeds Applicable Standards	Investigated Cumulative Effects
1-16	Foundry Sand Fill	Range 1 Soil	Metals, Cyanide, SVOCs, VOCs	Arsenic	Not Required
		Range 2 Soil	Metals, Cyanide, SVOCs, VOCs	Arsenic	Not Required
		Groundwater	Metals, Cyanide, SVOCs, VOCs	1,1-DCE, <i>cis</i> 1,2-DCE, PCE, TCE	Yes
1-18	Outfall #001	Surface Water	Metals, Cyanide, VOCs	None	Not Required
		Sediment	Metals, Cyanide	Arsenic	Not Required
1-19	Hazardous Waste Storage	Range 1 Soil	Metals, VOCs	None	Not Required
		Range 2 Soil	Metals, Cyanide, VOCs	None	Not Required
1-20	Parts Washing	Range 1 Soil	None	None	Not Required
1-21	Parts Washing	Range 2 soil	Metals, VOCs	None	Not Required
1-22	10,000-Gallon Waste Oil UST	Range 1 Soil	TEH	None	Not Required
		Range 2 Soil	None	None	Not Required
1-23	Degreasing	Range 1 Soil	None	None	Not Required
1-24	Degreasing	Range 1 Soil	Metals, VOCs	None	Not Required
		Range 2 Soil	VOCs	None	Not Required
		Groundwater	VOCs	TCE	Not Required
1-25	Paint Drying Area	Range 1 Soil	TEH	None	Not Required
		Range 2 Soil	None	None	Not Required
		Groundwater	TEH	TEH-wo	Not Required
1-26	Paint Booth	Range 1 Soil	VOCs	None	Not Required
1-27	Paint Booth	Range 1 Soil	Metals, VOCs	None	Not Required
1-28	500-Gallon Gasoline UST	Range 1 Soil	None	None	Not Required
		Range 2 Soil	None	None	Not Required
		Groundwater	VOCs	None	Not Required
1-29	Disturbed Ground	Range 1 Soil	Metals, Cyanide, SVOCs, VOCs	Arsenic	Not Required
		Range 2 Soil	Metals, Cyanide, SVOCs, VOCs	Arsenic	Not Required
		Groundwater	Metals, Cyanide, SVOCs, VOCs	1,1-DCE, <i>cis</i> 1,2-DCE, PCE, TCE	Yes

AOC	Description	Matrix	Detected	Exceeds Applicable Standards	Investigated Cumulative Effects
		Range 2 Soil	Metals, VOCs	None	Not Required
		Groundwater	Metals, Cyanide, VOCs	PCE, TCE	Not Required
4-3	Former Equipment Location	Range 1 Soil	VOCs	None	Not Required
		Range 2 Soil	None	None	Not Required
4-4	Welding Area	Range 1 Soil	Metals	Arsenic	Not Required
4-5	Transformers	Range 1 Soil	None	None	Not Required
		Groundwater	None	None	Not Required
4-6	French Drain	Range 1 Soil	SVOCs	None	Not Required
		Range 2 Soil	None	None	Not Required
		Groundwater	SVOCs	None	Not Required
4-7	Floor Drains	Range 1 Soil	Metals, VOCs	None	Not Required
4-10	Laboratory	Range 1 Soil	Metals, VOCs	Arsenic	Not Required
4-13	Hard Coat Anodizing	Range 1 Soil	Metals	None	Not Required
4-14	Buried Tank Cars	Range 1 Soil	VOCs, TEH	None	Not Required
		Range 2 Soil	VOCs, TEH	None	Not Required
		Groundwater	TEH	TEH-wo	Not Required
4-15	Sewer Line Break and Repair	Range 1 Soil	VOCs	None	Not Required
		Range 2 Soil	VOCs	None	Not Required
4-17	Waste Oil Storage and Recycling	Range 1 Soil	TEH	None	Not Required
4-18	Parts Washing	Range 1 Soil	Metals, VOCs	None	Not Required
4-22	Sludge Drying Oven	Range 1 Soil	Metals	Arsenic, Cadmium	Yes
4-24	10,000-Gallon UST	Range 1 Soil	TEH	None	Not Required
		Range 1 Soil	TEH	TEH-d	Not Required
		Groundwater	TEH	TEH-wo	Not Required
4-27	Chrome Plating	Range 1 Soil	Metals	Arsenic	Yes
4-28	Machining Area	Range 1 Soil	Metals	Arsenic, Cadmium	Yes
4-29	Paint, Solvent, Chemical Storage	Range 1 Soil	Metals	Cadmium	Yes
5-2	Open Floor Drains	Sediment	Metals, Cyanide, SVOCs, VOCs, PCBs	Arsenic, Chromium, PCB-1254	Not Required
5-9	Outfall #002	Surface Water	Metals, Cyanide, VOCs	Lead	Not Required
		Sediment	Metals, Cyanide, SVOCs, VOCs	Arsenic, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene	Not Required
6-11	Sumps in Building 15	Water	Metals, SVOCs, VOCs	None	Not Required

AOC	Description	Matrix	Detected	Exceeds Applicable Standards	Investigated Cumulative Effects
		Sediment	Metals, Cyanide, SVOCs, VOCs	Arsenic, Lead	Not Required
6-16	Sump in Building 20	Water	Metals, VOCs	None	Not Required
		Sediment	Metals, Cyanide, SVOCs, VOCs	Arsenic, Chromium, Lead	Not Required

6.0 RECOMMENDATIONS

Radiological Survey

No further action is required based on radiological concerns.

Geophysical Investigation

Investigation of the areas of potentially buried drums and USTs should be conducted.

Soil and Groundwater Assessment

AOCs 1-1, 1-11, 1-15, 1-16, 3-12, 4-22, 4-24, 4-27, 4-28 and 4-29 exceeded statewide standards for soil. Shallow, Range 1, soil is impacted above site-specific residential standards in AOCs 1-11, 1-16, 3-12, 4-22, 4-28 and 4-29. Deeper, Range 2, soil is impacted above site-specific residential standards in AOCs 1-15 and 4-24.

In all but a few of the AOCs requiring additional investigation, it is due to groundwater impacts from chlorinated solvents or TEH-wo. At a minimum, additional groundwater investigation is required to determine the extent of the chlorinated solvent contamination. This should be followed by a risk evaluation.

Sediment from some of the on-site sumps and floor drains should be analyzed for leachability of the contamination and then properly disposed.

Table 115 lists the AOCs being recommended for no additional investigation. Table 116 lists those AOCs that require either additional investigation or risk evaluation and response action.

Table 115
AOCs Recommended for No Further Action

AOC	Description	Matrix	Comments
1-2	Secondary Containment	Range 1 Soil	
1-3	Parts Washing	Range 1 Soil	
1-4	Steel Cutting	Range 1 Soil	
1-6	Container Storage Area	Range 1 Soil	
		Range 2 Soil	
1-7	90-Day Hazardous Waste Storage Area	Range 1 Soil	
1-8	DU Storage, Shipping and Receiving	Range 1 Soil	
1-9	Aluminum Machining	Range 1 Soil	
1-12	Pump Island	Range 1 Soil	
		Range 2 Soil	
		Groundwater	
1-19	Hazardous Waste Storage	Range 1 Soil	
		Range 2 Soil	
1-20	Parts Washing	Range 1 Soil	
1-21	Parts Washing	Range 2 soil	
1-22	10,000-Gallon Waste Oil UST	Range 1 Soil	
		Range 2 Soil	
1-23	Degreasing	Range 1 Soil	
1-26	Paint Booth	Range 1 Soil	
1-27	Paint Booth	Range 1 Soil	
1-28	500-Gallon Gasoline UST	Range 1 Soil	
		Range 2 Soil	

AOC	Description	Matrix	Comments
		Groundwater	
2-2	Paint Booth	Range 1 Soil	
2-4	Hazardous Materials Storage Area	Range 1 Soil	
2-5	Acid Rinsing	Range 1 Soil	
2-6	Industrial X-Ray	Range 1 Soil	
2-7	R&D Warhead Assembly	Range 1 Soil	
2-8	Storage/Draining of Oily Cuttings	Range 1 Soil	
		Range 2 Soil	
		Groundwater	
2-9	PCB Storage	Range 1 Soil	
		Range 2 Soil	
2-10	Paint Booth	Range 1 Soil	
3-3	Chlorinated Solvent Vapor Degreaser	Range 1 Soil	
3-4	R&D Assembly	Range 1 Soil	
3-8	Parts Washing	Range 1 Soil	
3-9	Alkaline Paint Stripping	Range 1 Soil	
3-10	Patriot Missile Assembly	Range 1 Soil	
3-14	Metallurgy Lab, Vent Hood, Countertop	Range 1 Soil	
		Range 2 Soil	
4-3	Former Equipment Location	Range 1 Soil	
		Range 2 Soil	
4-4	Welding Area	Range 1 Soil	
4-5	Transformers	Range 1 Soil	
		Groundwater	
4-6	French Drain	Range 1 Soil	
		Range 2 Soil	
		Groundwater	
4-7	Floor Drains	Range 1 Soil	
4-10	Laboratory	Range 1 Soil	
4-13	Hard Coat Anodizing	Range 1 Soil	
4-15	Sewer Line Break and Repair	Range 1 Soil	
		Range 2 Soil	
4-17	Waste Oil Storage and Recycling	Range 1 Soil	
4-18	Parts Washing	Range 1 Soil	
4-27	Chrome Plating	Range 1 Soil	Passed cumulative risk for residential

Table 116
AOCs Requiring Further Action

AOC	Description	Matrix	Comments
1-1	Aluminum Machining	Range 1 Soil	NFA ¹ -Passed cumulative risk for residential
		Range 2 Soil	NFA-Passed cumulative risk for residential
		Groundwater	Phase IIII needed for TCE.
1-5	Storage/Draining of Oily Metal Cuttings	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for TEH-wo.
1-10	Solvent Storage Tank	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for TCE.
1-11	Heating Oil/Waste Oil Above Ground Storage Tanks	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
		Range 2 Soil	NFA
		Groundwater	NFA
1-13	Bitumen Tank	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Failed cumulative risk for nonprotected groundwater. Phase IIII needed for TCE and <i>cis</i> 1,2-DCE
1-15	Disturbed Ground and Possible Buried Drums	Range 1 Soil	NFA-Passed cumulative risk for residential
		Range 2 Soil	RE/RA needed
		Groundwater	Failed cumulative risk for nonprotected groundwater. Phase IIII needed for TCE.
1-16	Foundry Sand Fill	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
		Range 2 Soil	NFA
		Groundwater	Passed cumulative risk for protected groundwater. Phase IIII needed for 1,1-DCE, <i>cis</i> 1,2-DCE, PCE and TCE.
1-18	Outfall #001	Surface Water	NFA
		Sediment	Remove, test and properly dispose of sediment.
1-24	Degreasing	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for TCE.
1-25	Paint Drying Area	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for TEH-wo.
1-29	Disturbed Ground	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Passed cumulative risk for protected groundwater. Phase IIII needed for 1,1-DCE, <i>cis</i> 1,2-DCE, PCE and TCE.
3-1	Solvent Vault	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for PCE and TCE.
3-2	Paint Storage	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for PCE and TCE.

¹ NFA = No Further Action

AOC	Description	Matrix	Comments
3-12	Gage Lab, Vent Hood and Former DU Area	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
3-15	Disturbed Ground	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for PCE and TCE.
4-14	Buried Tank Cars	Range 1 Soil	NFA
		Range 2 Soil	NFA
		Groundwater	Phase IIII needed for TEH-wo.
4-22	Sludge Drying Oven	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
4-24	10,000-Gallon UST	Range 1 Soil	NFA
		Range 2 Soil	Phase IIII needed for TEH-d.
		Groundwater	Phase IIII needed for TEH-wo.
4-28	Machining Area	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
4-29	Paint, Solvent, Chemical Storage	Range 1 Soil	Passed cumulative risk for nonresidential. Need institutional control.
5-2	Open Floor Drains in Building 12	Sediment	Remove, test and properly dispose of sediment.
5-9	Outfall #002	Surface Water	Locate source of lead and remedy.
		Sediment	Remove, test and properly dispose of sediment.
6-11	Sumps in Building 15	Water	NFA—Pump to storm sewer.
		Sediment	Remove, test and properly dispose of sediment.
6-16	Sump in Building 20	Water	NFA—Pump to storm sewer.
		Sediment	Remove, test and properly dispose of sediment.

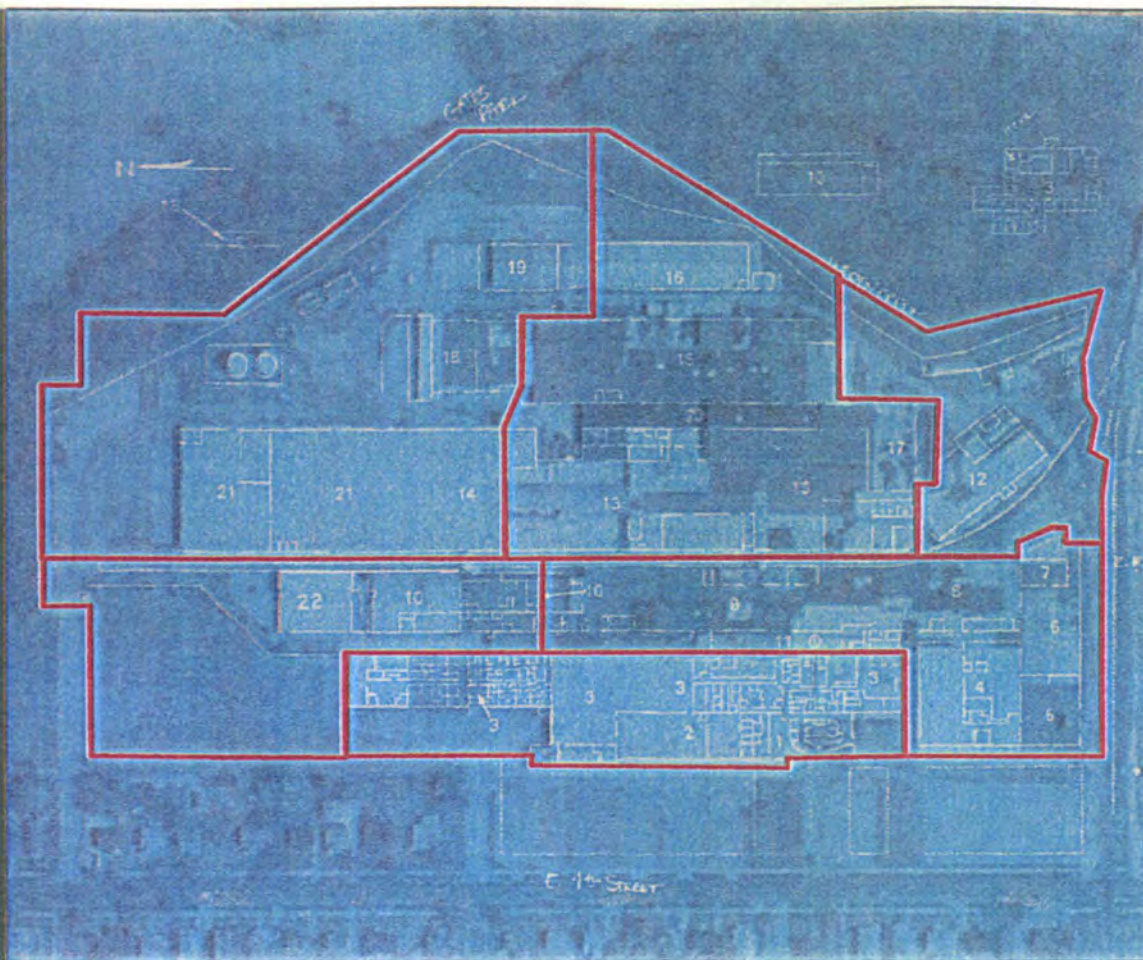
As mentioned previously, due to limited funding the entire site was not investigated. In addition to the additional investigation recommended above, the following AOCs remain to be investigated.

Table 117
AOCs Requiring Future Investigation

AOC	Source	Building Number
1-14	Cooling tower/pump house	Exterior
2-1	Phosphate conversion	10
2-3	Tile/ carpet/ mastic/ ceiling tile	10
3-5	Photo developing	3
3-6	Tile/ carpet/ mastic/ ceiling tile	3
3-7	R&D area	3
3-11	Grease trap	1
3-13	Cement wall board	3
4-2	Vent hood	4
4-11	Floor tile/ mastic/ ceiling tile	8
4-12	Wastewater treatment	11
4-15	Sewer line break/ repair	11
4-16	Waste oil piping manifold	11
4-19	Parts washing	9
4-20	Parts washing	4
4-21	Parts washing	5
4-23	Sanborn Unit	9
4-26	Forklift repair	5
5-3	Transite siding	12
5-4	Sulfuric acid release	Exterior
5-8	Secondary containment—sulfuric acid	Exterior
6-1	Heat treating furnaces	13
6-3	DU painting room	13
6-5	DU storage	13
6-6	Sludge drying oven	13
6-9	Furnace w/ potential asbestos	15
6-10	Floor tile/ mastic	15
6-13	Sludge drying oven	15

APPENDIX A

Property-Specific Sampling and Analysis Checklist



PROPERTY SPECIFIC SAMPLING AND ANALYSIS CHECKLIST

For use with Part I of Phase II DQO/Generic QAPP Project Plan

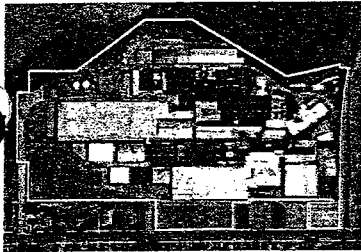
**FORMER CHAMBERLAIN MANUFACTURING CORPORATION
550 ESTHER STREET
WATERLOO, IOWA**

MAY 2004

Phase II Site Assessment
Chamberlain Manufacturing
Redevelopment Project
Waterloo, Iowa
HRG Project No. 722930J23



Howard R. Green Company



Howard R. Green Company

PROPERTY-SPECIFIC SAMPLING AND ANALYSIS CHECKLIST
For use with Part I of Phase II DQO/Generic QAPP Project Plan
May 2004

Former Chamberlain Manufacturing Corporation

Phase II Site Assessment
Chamberlain Manufacturing Redevelopment Project
Waterloo, Iowa
HRG Project No. 722930J23

I. APPROVALS

Ia. HOWARD R. GREEN
PROJECT MANAGER



Mike Fisher, R.E.M.

Date 6/3/04

Ib. CITY OF WATERLOO
PROJECT MANAGER

Don Temeyer

Date _____

Ic. USEPA REGION 7
PROJECT MANAGER

Connie Thigpen

Date _____

II. DQO/QAPP REFERENCES FOR USE AND REFERENCED BELOW
Part I of Phase II Plan, Version No. 1.0

DQO/QAPP Field Copy to accompany Field Captain or Designee to property.

“X” The Necessary Attachments To This Checklist:

- | | |
|---|---|
| #1 <input checked="" type="checkbox"/> Point Source Sampling Map | #2 <input type="checkbox"/> Non-point Source Sampling Map (Organic) |
| #3 <input type="checkbox"/> Non-point Source Sampling Map (Inorganic) | #4 <input checked="" type="checkbox"/> Groundwater Sampling Map |
| #5 <input type="checkbox"/> Optimized Sampling Location Map | #6 <input type="checkbox"/> SDPG* Diagram (Organic) |
| #7 <input type="checkbox"/> SDPG* Diagram (Inorganic) | #8 <input type="checkbox"/> Sampling Coordinates Sheet |
| #9 <input checked="" type="checkbox"/> Signed Access Agreements | #10 <input checked="" type="checkbox"/> Schedule For Phase II Site Assessment |
| #11 <input checked="" type="checkbox"/> Health and Safety Plan | #12 <input checked="" type="checkbox"/> Changed Conditions (See Section 8) |

III. IN-PROCESS ADJUSTMENTS, CLARIFICATIONS & CORRECTIVE ACTIONS

Date	QA/QC Notation No.	Checklist Modification Location		Adjuster		Approval		Form Filed	
		Section	Page	Initials	Date	Initials	Date	C.11	C.12
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								

IV. PROPERTY IDENTIFICATION

2. Facility (Site) Name: Former Chamberlain Manufacturing Corporation Site
3. City Subdivision: Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys
4. Parcel Number: 8913-13-176-002 Subparcel Number: See above
5. Common Address: 550 Esther Street, Waterloo, Iowa
6. Project ID Number(s): 722930J23
7. Access Agreement Signed By Owner(s) and Attached: No Pending Yes
8. Have Property Conditions changed since Phase I ESA? No Yes, Discuss & Attach.

V. STATEMENT OF IMPAIRMENTS TO BE INVESTIGATED

Howard R. Green Company Phase II ESA file identifier: O:\Proj\722930J23\Work Plan-040804-Chamberlain.doc

A Phase I ESA was conducted on the target property located at 550 Esther Street in Waterloo, Iowa. The property is described by the Black Hawk County Assessor's office as Parcel ID 8913-13-176-002 with a legal description as follows:

A parcel of land located in parts of Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys described as follows: Beginning at the NW corner of Lot 16 Block 10, said Logan Dale Heights, then E along southerly line of Anita St a distance of 138 feet then N a distance of 547.46 feet to NW corner of Lot 1 Block 1 said Logan Dale Heights then E a distance of 178.05 feet to NW corner Block 10 said Enterprise Place then N a distance of 50 feet to the SW corner of Block 9 said Enterprise Place then E along northerly line of vacant Louise St. a distance of 324 feet to SW corner block 8 said Enterprise Place then S a distance of 50 feet to NW corner of Block 11 said Enterprise Place then E along the southerly line of Louise St. a distance of 99.88 feet then S a distance of 191.30 feet then S 37° 41' 53" E a distance of 380.80 feet to SW corner of Block 12 said Enterprise Place then S a distance of 204 feet to northerly line of Block 16 said Enterprise Place then S 32° 37' 07" W a distance of 492.37 feet then S 14° 45' 05" E a distance of 239.21 feet then N 76° 47' 05" W a distance of 14.81 feet then S 10° 43' 42" W a distance of 40 feet to the northerly line of Waterloo RR Company then westerly along a curve concave southerly and having a radius of 1838.82 feet and long chord bearing north 84° 36' 33" W a distance of 342.55 feet then W along said northerly ROW line a distance of 399.21 feet to easterly line of E. 4th St. then N along the easterly line of E. 4th St. a distance of 188.92 feet to the NW corner of Lot 9 Block 11 said Logan Dale Heights then E a distance of 119.54 feet to the NE corner of Lot 9 Block 11 said Logan Dale Heights then south a distance of 149.89 feet to the SE corner of Lot 7 Block 11 said Logan Dale Heights then E a distance of 14 feet to the SW corner of Lot 6 Block 11 said Logan Dale Heights then N a distance of 359.80 feet to the SW corner of Lot 8 Block 10 said Logan Dale Heights then W a distance of 14 feet to the SE corner of Lot 9 Block 10 said Logan Dale Heights then N along the easterly line of Lot numbers 9 and 10 Block 10 said Logan Dale Heights a distance of 65.03 feet then W a distance of 121.40 feet to the easterly line of E. 4th St. then N along the easterly line of E 4th St. a distance of 335.28 feet to the point of beginning and also Lot 12 Block 11 said Logan Dale Heights.

Multiple industrial lots comprise the subject site and total 22.8 acres. Currently, the site is unoccupied and contains multiple single-story and two-story industrial buildings and warehouses constructed between 1919 and the early 1990s. Previous industrial businesses included Chamberlain Corporation, a manufacturer of metal washer wringers. American Wringers Company, Ambrook Industries, and Chamberlain Manufacturing Corporation, all manufacturers of metal washer wringers, projectile metal parts, aluminum awnings and refrigerator shelves, Waterloo Register, business type unknown, and Duschossois Industries, Inc. a manufacturer of projectile metal parts.

A visual inspection of the property was conducted on February 9 and 11, 2004, with the February 9th inspection guided by Gary Wilcox of the Black Hawk County Solid Waste Commission. The subject site itself is a recognized environmental condition (REC) with numerous areas of concern (AOCs) due to the historical uses and material storage at the site. The processes used, material stored, and waste generated to manufacture washer wringers, aluminum awnings, munitions and ordnance present a substantial potential for environmental contamination.

The results of the database searches and historical research identified three properties with RECs in the ASTM search distances from the subject site. None of these three have the potential to impact the site because of their location downgradient, or across Virden Creek from the subject site.

Based on the records review, interviews, on-site inspection, and historic information available at the time of this Phase I ESA, Howard R. Green Company recommends the following actions:

- 1) Prior to initiating field activities in this sampling design, retain a radiation consultant to conduct a Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) Phase I Scoping Survey.
- 2) Conduct a survey with Ground Penetrating Radar (GPR) to identify the location of the buried drums.
- 3) Conduct an asbestos survey of building materials.
- 4) Conduct a drum inventory and sample where necessary.
- 5) Collect samples in AOCs at the subject site.

VI. ENVIRONMENTAL CONDITIONS TO BE INVESTIGATED

9. Primary Pilot Study Land Use Categories:

Manufacturer of washer wringers, aluminum awnings, and ordnance.

9a. Secondary Land Uses Involving RECs:

AOC	Source	Building Number
1-1	Aluminum machining	14
1-2	Secondary containment	14
1-3	Parts washing	18
1-4	Steel cutting	18
1-5	Stored/drained oily cuttings	Exterior
1-6	Container storage area	Exterior
1-7	90-day hazardous waste storage	19
1-8	DU storage, shipping, receiving	21
1-9	Aluminum machining	21
1-10	Solvent storage tank	21
1-11	Heating oil/waste oil ASTs	Exterior
1-12	Pump island	Exterior
1-13	Bitumen tank	Exterior
1-14	Cooling tower/pump house	Exterior
1-15	Disturbed ground/ possible buried drums	Exterior
1-16	Foundry sand fill	Exterior
1-17	Well #3	Exterior
1-18	North Outfall (#001)	Exterior
1-19	Hazardous waste storage	Exterior
1-20	Parts washing	18
1-21	Parts washing	14
1-22	10,000-gal waste oil UST	Exterior
1-23	Degreasing	21
1-24	Degreasing	21
1-25	Paint drying area	Exterior
1-26	Paint booth	21
1-27	Paint booth	21
1-28	500-gal gasoline UST	Exterior
1-29	Disturbed ground	Exterior
2-1	Phosphate conversion	10
2-2	Paint booth	10
2-3	Tile/ carpet/ mastic/ ceiling tile	10
2-4	Hazardous materials storage	10
2-5	Acid rinsing	10

Property-Specific Sampling and Analysis Checklist
 Former Chamberlain Manufacturing Site
 Waterloo, Iowa

Howard R. Green Company
 Project 722930J23
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AOC	Source	Building Number
2-6	Industrial x-ray	10
2-7	R&D warhead assembly	22
2-8	Stored/ drained oily cuttings	Exterior
2-9	PCBS storage	Exterior
2-10	Paint booth	10
3-1	Solvent vault	3
3-2	Paint storage	3
3-3	Chlorinated solvent vapor degreaser	3
3-4	R&D assembly	3
3-5	Photo developing	3
3-6	Tile/ carpet/ mastic/ ceiling tile	3
3-7	R&D area	3
3-8	Parts washing	3
3-9	Alkaline paint stripping	3
3-10	Patriot missile assembly	3
3-11	Grease trap	1
3-12	Gage lab/ vent hood/ former DU area	3
3-13	Cement wall board	3
3-14	Metallurgy lab/ vent hood/ countertop	1
3-15	Disturbed ground	Exterior
4-1	Floor drains	4
4-2	Vent hood	4
4-3	Former equipment location	4
4-4	Welding	4
4-5	Transformers	4
4-6	French drain	Exterior
4-7	Floor drains (concreted in)	6
4-8	Not used	
4-9	Floor drains (filled w/ sediment)	8
4-10	Laboratory	8
4-11	Floor tile/ mastic/ ceiling tile	8
4-12	Wastewater treatment	11
4-13	Hard coat anodizing	11
4-14	Buried tank cars (4)	11
4-15	Sewer line break/ repair	11
4-16	Waste oil piping manifold	11
4-17	Waste oil storage/ recycling	11
4-18	Parts washing	9
4-19	Parts washing	9
4-20	Parts washing	4
4-21	Parts washing	5
4-22	Sludge drying oven	8
4-23	Sanborn Unit	9
4-24	10,000-gal UST (filled in place)	9
4-25	Well #1	8
4-26	Forklift repair	5
4-27	Chrome plating	8
4-28	Machining	8
4-29	Paint/ solvent/ chemical storage	6
5-1	DU shell assembly	12
5-2	Open floor drains	12
5-3	Transite siding	12
5-4	Sulfuric acid release	Exterior
5-5	Substation	Exterior
5-6	Rail spur	Exterior
5-7	Hydraulic oil tanks	Exterior
5-8	Secondary containment—sulfuric acid	Exterior
5-9	Outfall 002	Exterior
5-10	Solvent recovery	12

AOC	Source	Building Number
5-11	Outfall 003	Exterior
5-12	Metal scrap storage	Exterior
5-13	Bitumen tank	Exterior
6-1	Heat treating furnaces	13
6-2	Former press pits	13
6-3	DU painting room	13
6-4	Metal finishing lines	13
6-5	DU storage	13
6-6	Sludge drying oven	13
6-7	Leaking hydraulic oil drums	15
6-8	Filled trench drains	15
6-9	Furnace w/ potential asbestos	15
6-10	Floor tile/ mastic	15
6-11	Sump	15
6-12	Oil storage/ recycling	15
6-13	Sludge drying oven	15
6-14	Drum storage	20
6-15	Equipment cleaning	16
6-16	Filled trench drain	17
6-17	Paint booth	17
6-18	Hazardous waste staging	15
6-19	Parts washing	15
6-20	Parts washing	15
6-21	Zinc electroplating	13
6-22	Pit sludge treatment	15
6-23	Annealing furnaces	15
6-24	Well #2	13
6-25	Paint booth	13
6-26	Grated sump	20

10. Check Target Chemical Inputs Below:

AOC No.	VOCs	SVOCs	OA-1	OA-2	Asbestos	Metals	PCBs	Cyanide
1-1	X	X				X	X	
1-2	X	X				X	X	
1-3	X					X		
1-4	X	X				X	X	
1-5	X	X				X	X	
1-6	X	X				X	X	X
1-7	X	X				X	X	
1-8	X							
1-9	X	X				X	X	
1-10	X							
1-11			X	X				
1-12			X	X				
1-13	X	X				X		
1-14		X						
1-15	X	X				X		X
1-16		X				X	X	
1-17	X	X				X	X	X
1-18	X	X				X	X	X
1-19	X	X				X	X	
1-20	X					X		
1-21	X					X		
1-22			X	X				

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 Former Chamberlain Manufacturing Site
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 May 2004

AOC No	VOGs	SVOCs	OA-1	OA-2	Asbestos	Metals	PCBs	Cyanide
1-23	X	X				X	X	
1-24	X	X				X	X	
1-25	X	X				X		
1-26	X	X				X		
1-27	X	X				X		
1-28			X					
1-29	X	X				X		X
2-1	X							
2-2	X	X				X		
2-3					X			
2-4	X	X				X	X	
2-5						X		X
2-6						X		
2-7	X							
2-8			X	X		X	X	
2-9			X	X		X	X	
2-10	X	X				X		
3-1	X							
3-2	X	X				X		
3-3	X	X				X		
3-4	X							
3-5	X					X		
3-6					X			
3-7	X							
3-8	X					X		
3-9	X							
3-10	X					X		
3-11	X	X				X		
3-12	X					X		
3-13					X			
3-14	X	X				X		
3-15	X	X				X		
4-1	X	X				X	X	
4-2					X			
4-3	X	X				X	X	
4-4	X					X		
4-5		X					X	
4-6	X	X				X	X	
4-7	X	X				X	X	
4-8								
4-9	X	X				X	X	
4-10	X	X			X	X		
4-11					X			
4-12	X					X		
4-13						X		
4-14			X	X				
4-15	X	X				X	X	
4-16			X	X				
4-17			X	X				
4-18	X					X		
4-19	X					X		
4-20	X					X		
4-21	X					X		
4-22		X				X		
4-23	X	X				X	X	
4-24			X	X				
4-25	X	X				X		

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AOC No.	VOCs	SVOCs	OA-1	OA-2	Asbestos	Metals	PCBs	Cyanide
4-26	X	X				X		
4-27						X		
4-28	X	X				X	X	
4-29	X	X				X		
5-1	X							
5-2	X							
5-3					X			
5-4						X		
5-5				X			X	
5-6	X	X				X	X	
5-7				X	X			
5-8						X		
5-9	X	X				X	X	X
5-10	X					X		
5-11	X	X				X	X	X
5-12	X	X				X		
5-13	X	X						
6-1					X			
6-2	X	X				X	X	
6-3	X	X						
6-4	X	X				X	X	
6-5	X							
6-6		X				X		
6-7		X				X	X	
6-8	X	X				X	X	
6-9					X			
6-10					X			
6-11	X	X				X	X	
6-12	X	X				X	X	
6-13		X				X		
6-14	X	X				X	X	
6-15	X	X				X	X	
6-16	X	X				X	X	
6-17	X	X				X		
6-18	X	X				X	X	
6-19	X					X		
6-20	X					X		
6-21	X	X				X	X	
6-22	X	X				X	X	
6-23	X	X				X	X	
6-24	X	X				X	X	X
6-25	X	X				X		
6-26	X	X				X	X	X

VII. PROPERTY-SPECIFIC SAMPLING DESIGN(S)

11a. Table 1, below, describes the sampling design for soil and groundwater samples. The boring locations are identified on Figure 1 and the groundwater monitoring well locations on Figure 2. Depth to the first groundwater bearing zone beneath the site reportedly is approximately 27 feet below ground surface (bgs).

Table 2 describes the sampling design for on-site wells, sumps, outfalls and floor drains. The locations of the samples are identified on Figure 3.

Table 1: Soil Boring/Groundwater Samples

BORING/ MW	RANGE 1 SOIL						RANGE 2 SOIL						GROUNDWATER						AOCs				
	Cyanide	Metals	PCBs	SVOCs	VOCS	QA-1	QA-2	Cyanide	Metals	PCBs	SVOCs	VOCS	QA-1	QA-2	Cyanide	Metals	PCBs	SVOCs		VOCS	QA-1	QA-2	
SB-1	X	X		X	X			X	X		X	X											1-15
SB-2	X			X	X			X			X	X											1-15
SB-3	X			X	X			X			X	X											1-15
SB-4	X							X															1-15
SB-5/ MW-1	X			X	X			X			X	X			X			X	X				1-13, 1-15
SB-6	X	X						X	X														1-15
SB-7	X			X	X			X			X	X											1-11, 1-15
SB-8			X	X																			1-8, 1-23
SB-9			X		X																		1-9, 1-26
SB-10/ MW-2			X	X	X						X	X				X	X	X					1-10, 1-24
SB-11			X		X																		1-9
SB-12		X	X	X	X																		1-2, 1-21, 1-24, 1-27
SB-13		X	X	X	X																		1-1
SB-14		X	X	X																			1-1
SB-15/ MW-3		X	X	X	X				X		X	X			X	X	X	X					1-1
SB-16		X	X	X																			1-1
SB-17					X																		1-27
SB-18						X							X										1-28
SB-19						X							X										1-28
SB-20/ MW-4						X							X					X					1-28
SB-21						X	X						X	X									1-11
SB-22						X	X						X	X									1-11
SB-23						X	X						X	X									1-11
SB-24						X	X						X	X									1-11
SB-25/ MW-5						X	X						X	X						X	X		1-11, 1-12
SB-26			X			X	X																1-5, 1-25
SB-27						X																	1-5, 1-25
SB-28						X																	1-5, 1-25
SB-29						X																	1-5, 1-25
SB-30/ MW-6						X	X						X	X						X	X		1-5, 1-25
SB-31						X																	1-5, 1-25
SB-32			X	X																			1-4, 1-3, 1-20
SB-33	X				X			X				X											1-6
SB-34	X	X			X			X	X			X											1-19
SB-35/ MW-7	X	X	X	X	X			X	X		X	X			X	X	X	X	X				1-16, 1-29
SB-36	X							X															1-16, 1-29
SB-37	X							X															1-16, 1-29
SB-38	X		X	X				X			X	X											1-16, 1-29

Property-Specific Sampling and Analysis Checklist
 Former Chamberlain Manufacturing Site
 Waterloo, Iowa

Howard R. Green Company
 Project 722930J23
 May 2004

BORING/ MW	RANGE 1 SOIL							RANGE 2 SOIL							GROUNDWATER						AOCs		
	Cyanide	Metals	PCBs	SVOCs	VOCS	OA-1	OA-2	Cyanide	Metals	PCBs	SVOCs	VOCS	OA-1	OA-2	Cyanide	Metals	PCBs	SVOCs	VOCS	OA-1		OA-2	
SB-39	X	X						X	X														1-16, 1-29
SB-40/ MW-8	X							X							X								1-16, 1-29
SB-41		X	X																				1-7
SB-42		X		X	X																		2-2, 2-4, 2-5, 2-6
SB-43				X																			2-10
SB-44					X																		2-7
SB-45/ MW-9			X				X							X		X					X		2-8
SB-46			X				X							X									2-9
SB-47					X								X										4-15
SB-48					X								X										4-15
SB-49					X								X										4-14, 4-15
SB-50/ MW-10	X	X		X	X			X	X		X	X			X	X		X	X				3-1, 3-2, 3-15
SB-51		X		X																			3-3, 3-12
SB-52		X			X																		3-8, 3-9, 3-10
SB-53		X			X																		3-4
SB-54				X	X						X	X											3-14
SB-55/ MW-11			X	X							X						X	X					4-5
SB-56				X																			4-3
SB-57		X																					4-4
SB-58		X	X		X																		4-7
SB-59		X																					4-29
SB-60/ MW-12			X	X							X						X	X					4-6
SB-61		X	X																				4-22, 4-28
SB-62		X																					4-27
SB-63		X			X																		4-10
SB-64																							4-24
SB-65/ MW-13						X	X						X	X						X	X		4-24
SB-66		X			X																		4-18
SB-67		X																					4-13
SB-68						X	X																4-17
SB-69						X	X						X	X									4-14
SB-70/ MW-14						X	X						X	X						X	X		4-14
SB-71						X	X						X	X									4-14
SB-72		X	X	X					X		X												5-6
SB-73					X							X											5-12
SB-74			X				X							X									5-5
SB-75/ MW-15				X		X	X				X		X	X			X		X	X			5-7, 5-13
SB-76					X																		5-1, 5-2, 5-10
SB-77		X	X																				6-16, 6-17
SB-78			X	X	X																		6-2, 6-4
SB-79				X																			6-2, 6-25
SB-80/ MW-16		X	X	X	X				X							X	X	X	X				6-14
SB-81			X																				6-21
SB-82			X																				6-18, 6-22, 6-23
SB-83		X	X		X																		6-7, 6-8, 6-20
SB-84		X	X	X	X																		6-7

BORING/ MW	RANGE 1 SOIL							RANGE 2 SOIL							GROUNDWATER						AOCs	
	Cyanide	Metals	PCBs	SVOCS	VOCS	0A:1	0A:2	Cyanide	Metals	PCBs	SVOCS	VOCS	0A:1	0A:2	Cyanide	Metals	PCBs	SVOCS	VOCS	0A:1		0A:2
SB-85/ MW-17		X	X	X	X				X		X	X				X	X	X	X			6-12
SB-86		X																				6-19
SB-87		X			X																	6-15
SB-88					X																	6-15
SB-89						X	X						X	X								1-22

Table 2: Water Well, Sump, Outfall, and Floor Drain Samples

Location	Water					Sediment					AOC
	Cyanide	Metals	PCBs	SVOCS	VOCS	Cyanide	Metals	PCBs	SVOCS	VOCS	
GW-1	X	X	X	X	X						1-17
OF-1	X	X	X	X	X	X	X	X	X	X	1-18
FD-1						X	X	X	X	X	4-1
FD-2						X	X	X	X	X	4-9
GW-2	X	X	X	X	X						4-25
FD-3						X	X	X	X	X	5-2
OF-2	X	X	X	X	X	X	X	X	X	X	5-9
OF-3	X	X	X	X	X	X	X	X	X	X	5-11
SUMP-1	X	X	X	X	X	X	X	X	X	X	6-11
GW-3	X	X	X	X	X						6-24
SUMP-2	X	X	X	X	X	X	X	X	X	X	6-26

Because of the large number of AOCs and the limited resources, the sampling design was developed by prioritizing the potential contaminants in the facility by health risk, acreage potentially impacted by each contaminant and the cost per analysis. Based on the prioritization, maximum allowable costs were assigned to each contaminant to be investigated. The costs were then used as input in Visual Sampling Plan to determine the number of samples and identify sample locations in each potentially impacted area for each contaminant.

The prioritization has left several AOCs that will not be investigated. In addition, samples may not be analyzed for all contaminants associated with an AOC, but one or two contaminants that would be indicators of a release in that area. The drum inventory and sampling is not included in this sampling design. When additional funding is made available, a second sampling design will be submitted if necessary.

Asbestos sampling is not included in this sampling design. It is the intent of the property owner to demolish the structures on the property. An asbestos survey will be performed prior to demolition, and abatement specifications prepared at that time.

The AOCs not included in this sampling design are tabulated below:

AOC	Source	Building Number
1-14	Cooling tower/pump house	Exterior
2-1	Phosphate conversion	10
2-3	Tile/ carpet/ mastic/ ceiling tile	10
3-5	Photo developing	3
3-6	Tile/ carpet/ mastic/ ceiling tile	3
3-7	R&D area	3
3-11	Grease trap	1
3-13	Cement wall board	3
4-2	Vent hood	4
4-11	Floor tile/ mastic/ ceiling tile	8
4-12	Wastewater treatment	11
4-15	Sewer line break/ repair	11
4-16	Waste oil piping manifold	11
4-19	Parts washing	9
4-20	Parts washing	4
4-21	Parts washing	5
4-23	Sanborn Unit	9
4-26	Forklift repair	5
5-3	Transite siding	12
5-4	Sulfuric acid release	Exterior
5-8	Secondary containment—sulfuric acid	Exterior
6-1	Heat treating furnaces	13
6-3	DU painting room	13
6-5	DU storage	13
6-6	Sludge drying oven	13
6-9	Furnace w/ potential asbestos	15
6-10	Floor tile/ mastic	15
6-13	Sludge drying oven	15

11b. Proposed Sampling Locations

Figure 1: Soil Sample Locations

Figure 2: Groundwater Sample Locations

Figure 3: Water Well, Sump, Outfall and Floor Drain Sample Locations

12. Potential Non-Point Source Condition

Not Applicable

13. Groundwater Sample Locations

Groundwater sampling was determined using judgmental rationale based on Phase II ESA findings.

13a. 89 Judgmental Point Source Sampling Locations, conditions discussed in Section IV.

13b. 0 Statistical Non-Point Source Sampling Locations, conditions discussed in Section IV.

VIII. CHEMICAL ANALYSES NEEDED (Modify as Necessary)

Soil Range 1	NUMBER TO ANALYZE				MEDIA	CHEMICAL GROUP	LAB METHOD
	Soil Range 2	GW	Sediment	Surface Water			
36	18		8		Soil	VOCs	EPA SW-846 8260B
30	16		8		Soil	SVOCs	EPA SW-846 8270C
30			8		Soil	PCBs	EPA SW-846 8082
32	10		8		Soil	Total Metals	EPA SW-846 6010B/7060A/7471A
16	16		8		Soil	Cyanide	EPA SW-846 9012
20	14				Soil	IAC 135 Volatiles	Iowa OA-1
16	14				Soil	IAC 135 Low-Volatiles	Iowa OA-2
		11		3	Water	VOCs	EPA SW-846 8260B
		13		3	Water	SVOCs	EPA SW-846 8270C
		10		3	Water	PCBs	EPA SW-846 8082
		8		3	Water	Total Metals	EPA 245.2 EPA SW-846 6010B/7060A/ 7131A/7421/7740
		7		3	Water	Cyanide	EPA 335.4
		5			Water	IAC 135 Volatiles	Iowa OA-1
		6			Water	IAC 135 Low-Volatiles	Iowa OA-2

Additional samples will be collected and analyzed to satisfy the QA/QC requirements of the DQO/QAPP (Blanks, Duplicates, Replicates)

IX. HEALTH AND SAFETY (A8.2.5, Default Approval Limited to D & D Modified Levels)

Complete Attachment 11 per Howard R. Green Company Health and Safety Plan with appropriate signatures per Part 1 of Project Plan and referenced corporate plans and management requirements.

15. A Site-Specific Health and Safety Plan is Attached.

- Level D Personal Protective Equipment (PPE): equip., monitor and record accordingly.
- Level D Modified Personal Protective Equipment (PPE): equip., monitor and record accordingly.
- Level C Personal Protective Equipment (PPE): **STOP WORK** & contact Project Manager & Safety Officer.

X. UNANTICIPATED DEVIATIONS FROM DQO/QAPP REFERENCED

16. Variance:

No variances are anticipated.

17. Necessity To Brownfields Study:

The proposed efforts are consistent with the approved DQO/QAPP objectives to evaluate the risk and feasibility of redevelopment options for the target site.

XI. PHASE III FIELD OPERATIONS (QAPP Appendix D)

1. Procedure For Soil and Solid Media Sampling
2. Procedure For Groundwater and Surface Water Sampling

XII. QUALITY CONTROL CHECKS (Reference Section B5, Table 9, QAPP Appendix E)

NUMBER FOR THIS SITE	QC ASSESSMENT ACTIVITY	CONDUCTING AGENCY	QAPP FREQUENCY OF ACTIVITY
Per B5.2	Field Blank	Howard R. Green Company	1 per week of on-site activity
Per B5.2	Blind Replicate Sample	Howard R. Green Company	1 per property – specific mobilization
Per B5.2	Field Replicate Sample	Howard R. Green Company	1 per property – specific mobilization
Per B5.2	Soil Gas Duplicate Sample	Howard R. Green Company	1 per sampling event
Per B5.2	Trip Blank	Laboratory	Per Appendix E
Per B5.2	Lab Reagent Blank	Laboratory	Per Appendix E
Per B5.2	Method Blank	Laboratory	Per Appendix E
Per B5.2	Matrix Spike/Matrix Spike Duplicate	Laboratory	Per Appendix E
Per B5.2	Laboratory Control Sample	Laboratory	Per Appendix E
Per B5.2	General Bottle Control	Laboratory	Per Appendix E
Per B5.2	VOA Bottle Control	Laboratory	Per Appendix E

INSERT PROJECT-SPECIFIC ATTACHMENTS:

- #1 Point Source Sampling Map
- #2 Non-point Source Sampling Map (Organic)
- #3 Non-point Source Sampling Map (Inorganic)
- #4 Groundwater Sampling Map
- #5 Optimized Sampling Location Map
- #6 Statistical Decision Performance Diagram (Organic)
- #7 Statistical Decision Performance Diagram (Inorganic)
- #8 Optimized Sampling Coordinates Sheet
- #9 Signed Access Agreement
- #10 Schedule For Phase II Assessment
- #11 Health and Safety Plan
- #12 Changed Conditions (See Section 8)

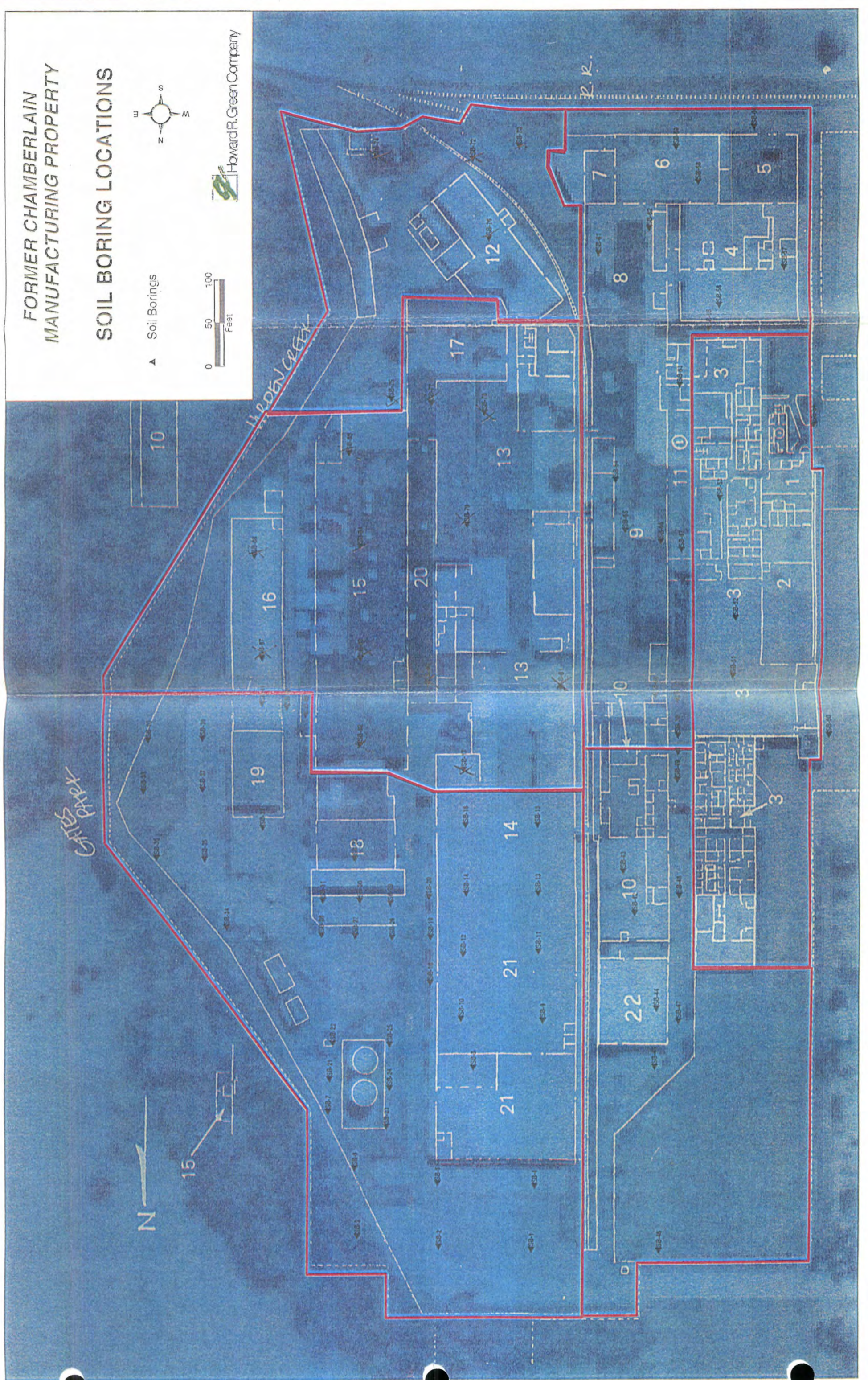
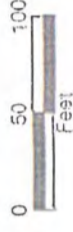
ATTACHMENT 1
Point Source, Judgmental Sampling Locations
Soil / Fills: All
QAPP Section B1.5.1.1

FORMER CHAMBERLAIN MANUFACTURING PROPERTY

SOIL BORING LOCATIONS




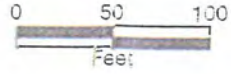
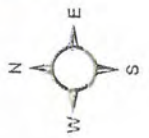

▲ Soil Borings



ATTACHMENT 4
Groundwater Sampling Maps
QAPP Section B1.5.1.4

FORMER CHAMBERLAIN
MANUFACTURING PROPERTY
GROUNDWATER MONITORING
WELL LOCATIONS

Monitoring Wells

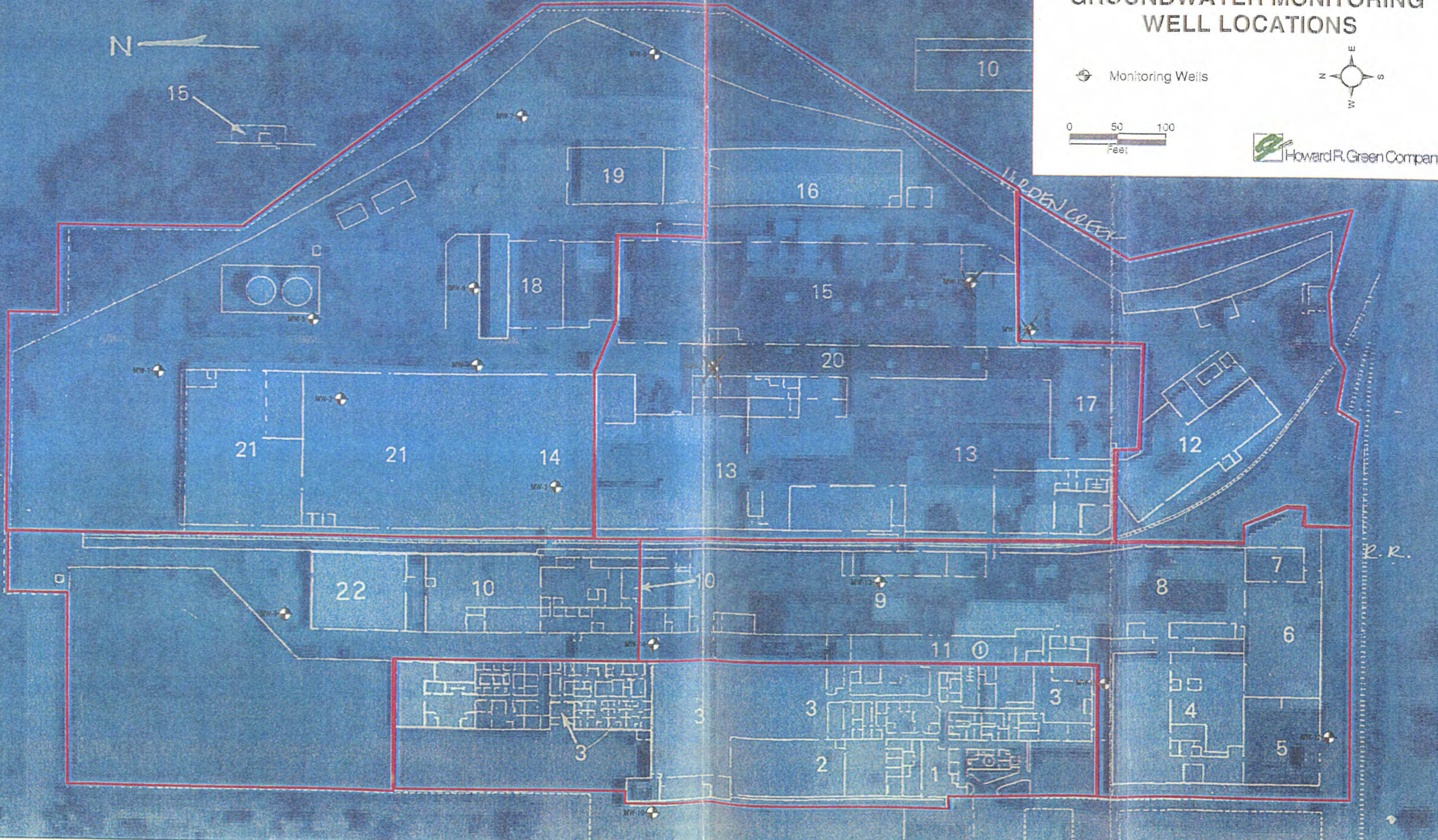


0 50 100
Feet

GATES PARK

HIDDEN CREEK

R.R.



ATTACHMENT 9
Agreement To Allow Access
For
Environmental Investigation Activities

Agreement To Allow Access For Environmental Investigation Activities

THIS AGREEMENT, made and entered into by and between, Atlas Warehouse LC, hereinafter referred to as the "GRANTOR" and the City of Waterloo, a municipality, with the legal address of 715 Mulberry Street, Waterloo, IA 50703, hereinafter referred to as the "CITY". The GRANTOR, as legal owner of or with authority to permit access to the below described property, hereby knowingly consents to and authorizes, pursuant to the terms of this AGREEMENT, the CITY, its employees and other representatives to enter upon and perform certain monitoring activities. The purpose of the entry onto the property is to perform investigatory activities pursuant to the authority of Sections 104(b) and 104(e) of the CERCLA of 1980, 42 USC 9604(b) and (e) et seq., as amended by the SARA of 1986.

To the parties joint and mutual consideration it is hereby agreed as follows:

1. The undersigned GRANTOR is the lawful possessor of certain real estate located at 550 Esther Street in the City Limits of Waterloo, Iowa (insert legal address), hereinafter referred to as the "TARGET PROPERTY".
2. The GRANTOR hereby conveys to the CITY, its employees, representatives, agents, contractors, access to the TARGET PROPERTY identified above for the sole purpose of conducting environmental sampling activities. These activities may include the collection of surface and subsurface soil and water samples. Access to subsurface samples will be through drilling holes, removing soil, installation of monitoring wells, removal of groundwater, removal of well materials, and sealing of holes. The ground surface will be restored to prior sampling conditions.
3. The GRANTOR has good and lawful right to grant access the TARGET PROPERTY.
4. The GRANTOR duly authorizes their representative or agent to grant access to the CITY.
5. The GRANTOR shall agree not to interfere with any activities or equipment described herein, or to undertake any actions regarding the use of the TARGET PROPERTY, which would endanger the health or welfare of the CITY, its employees representatives, agents, contractors or the environment, or allow others to use the TARGET PROPERTY in such a manner.
6. The CITY shall indemnify and hold harmless the GRANTOR against any damage to the TARGET PROPERTY arising from the CITY's presence on the premises.
7. The CITY shall take responsible actions to avoid disrupting or interfering with the normal course of activities conducted on the TARGET PROPERTY.
8. The CITY shall access the TARGET PROPERTY during regular business hours unless otherwise agreed to by both parties.
9. The CITY shall be responsible for locating all utilities pursuant to the work plan on TARGET PROPERTY and will be liable for damages and cost of repairs.

10. The CITY will split samples with the GRANTOR's representative upon given 48 hour notice of request. The GRANTOR shall provide its own sample containers and will be responsible for all delivery, chain-of-custody documentation, analytical, and disposal costs.
11. The CITY will provide the GRANTOR with a list of samples collected, copies of analytical results, and the location where samples were collected.
12. The CITY will give the GRANTOR at least 48-hour written notice of the initiation of sampling activities. A minimum of 48-hours written notice will be given for any follow up sampling activities. The GRANTOR shall not unreasonably withhold consent. Consent may be oral. The GRANTOR's representatives to receive notice are as follows: _____
13. The CITY agrees that all materials and equipment utilized in this investigation shall be removed from the TARGET PROPERTY upon completion of the monitoring and other activities authorized by this AGREEMENT and that said TARGET PROPERTY will be restored as nearly as possible to its original state and conditions as found immediately preceding the beginning of the activities authorized by this AGREEMENT.
14. The CITY liability for damages to the TARGET PROPERTY or injuries to persons that result from or are caused by the activities on the TARGET PROPERTY shall be to the extent of the law including but not limited to the Federal Employee Compensation Act and the Federal Tort Claims Act.
15. This AGREEMENT terminates within 1 year of the signature of both parties.

The undersigned have read this AGREEMENT and understands that it grants permission to the CITY, its employees representatives, agents, contractors to enter the above-referenced premises for the purposes on conducting the afore-mentioned monitoring activities and agree to the afore-mentioned terms and conditions.

Dated this 4 day of February, 2004.

GRANTOR

CITY OF WATERLOO

Atlas Warehouse
Atlas Warehouse LC

Tim Hurley
Tim Hurley, Mayor

ATTEST:

Ronald Ware
An Authority Signatory
(if applicable)

Nancy Eckert
Nancy Eckert, City Clerk

Attachment 10

SCHEDULE OF ACTIVITIES

The following schedule is proposed to implement the Phase II Environmental Site Assessment.

Assessment and Evaluation on this property consistent with Sections A6.2.5 and B1.2 of the Generic DQO/QAPP and services of contract for this EPA Brownfields Assessment Demonstration Pilot. Factors of weather, response times by public service, responses to regulatory agencies or other logistical influences external to Howard R. Green Company control will extend the project milestones by equivalent days of delay beyond dates estimated.

- WEEK NUMBER 1: Submission of Checklist to EPA Brownfields Project Manager for review & approval
- WEEK NUMBER 2: EPA approval of Checklist and initiation of mobilization
- WEEK NUMBER 3: Notification to EPA Brownfields Project Manager on final field schedules
- WEEK NUMBER 3: Completion of utility clearances
- WEEK NUMBER 4: Commencement of on-site field activities
- WEEK NUMBER 8: Completion of on-site field activities
- WEEK NUMBER 9: Receipt of written laboratory reports
- WEEK NUMBER 13: Final Phase II Report to City and EPA 7


HOWARD R. GREEN COMPANY
HEALTH AND SAFETY PLAN

Attachment 11

Former Chamberlain Site
BROWNFIELDS ASSESSMENT GRANT
EPA Region 7 - Waterloo, Iowa
Project No. 722930J23

DEVELOPED BY: Cynthia Quast, P.E.

APPROVED BY:


Ed Barrett, H&S Manager

Date

6/2/04


Mike Fisher, R.E.M., Project Manager

Date

6/3/04

1.0 APPLICABILITY

This Site-Specific Health and Safety Plan (HASP) has been developed to define the protocols and requirements to be followed by Howard R. Green Company personnel while performing field observation and assessment activities. Immediately prior to site activities, the designated Site Safety and Health Officer (SSO) will conduct a safety briefing and review the contents of this Plan with all Howard R. Green Company site personnel. Howard R. Green Company employees participating in this project will review this Plan and sign the Acknowledgment of Instruction page prior to the start of project activity.

Site activities performed by Howard R. Green Company personnel will be conducted in accordance with applicable provisions of the Occupational Safety and Health Act of 1970 and the standards issued there under, including but not limited to the Hazardous Waste Site Operations and Emergency Response standard (OSHA 29 CFR 1910.120) and the Respiratory Protection standard (29 CFR 1910.134).

2.0 SAFETY AND HEALTH ADMINISTRATION

The Howard R. Green Company Project Manager will be ultimately responsible for ensuring that Howard R. Green Company personnel at this project site perform their duties in accordance with the safety and health provisions contained in this Plan. The designated Site Safety and Health Officer (SSO) will monitor compliance with this Plan during field activities. The Project Manager and/or SSO will ensure that site emergency telephone numbers are completed and that the location of and directions to the nearest emergency medical facility are included in this Plan prior to site mobilization. All Howard R. Green Company field team members engaged in project activities will be required to sign the "Acknowledgment of Instruction" form upon completion of the initial site briefing. The SSO will ensure that a copy of this Plan is available on site for the duration of project activities. Upon the completion of site work the Plan will be maintained in the project files.

The individuals listed below are responsible for implementation and enforcement of this Safety and Health Plan.

<u>TITLE</u>	<u>NAME</u>	<u>PHONE</u>
Project Manager:	Mike Fisher	319-841-4354 (W)
Health and Safety Manager:	Ed Barrett	319-841-4395 (W)
SSO (Field Captain)	Ronn Beebe	319-841-4327 (W)

If hazardous conditions develop or appear imminent during the course of project activity the SSO in conjunction with the Howard R. Green Company Project Manger and Safety and Health Manager, will coordinate actions required to safeguard Howard R. Green Company personnel. Additional safety measures will be verbally communicated to Howard R. Green Company project participants, recorded in writing and appended to this HASP.

The Howard R. Green Company Project Manager and/or SSO are responsible for:

- Ensuring that subordinate personnel have read and understood this Plan.
- Ensuring that subordinate personnel adhere to applicable provisions of this Plan.
- Ensuring that corrective actions are enforced.

3.0 MEDICAL SURVEILLANCE REQUIREMENTS

Subsurface contamination may be encountered during the course of this investigation. All Howard R. Green Company personnel participating in this project shall be enrolled in a health-monitoring program in accordance with the provisions of OSHA 29 CFR 1910.120 and 1910.134. Each project field participant shall be certified by a Doctor of Medicine as fit for respirator and semi-permeable/impermeable protective equipment use. All personnel shall have received an environmental physical examination within one year prior to the start of project field activities. A consulting physician will determine the content of the physical examinations.

Follow-up medical examinations will also be provided in the event of job site injury or unprotected exposure to contaminants in excess of eight-hour time weighted average permissible exposure limits. The Corporate Safety and Health Manager will maintain certificates of medical examinations.

4.0 EMPLOYEE TRAINING REQUIREMENTS

All Howard R. Green Company personnel participating in this project must have completed 40 hour Hazardous Waste Operations Training and at least three days of supervised field activity per requirements of OSHA 29 CFR 1910.120. In addition, a current 8-hour annual refresher-training certificate will be required for all personnel. The Corporate Safety and Health Manager and/or the SSO will maintain training certificates for all project personnel at the Corporate Office. The SSO and at least one other Howard R. Green Company site participant shall maintain a current certification in basic First Aid training as provided by the American Red Cross or US Bureau of Mines.

Prior to the start of site activities, all Howard R. Green Company project field personnel will participate in a pre-project safety and health briefing outlining the contents of this HASP. The personnel responsible for project safety and health will be addressed, as will site history, scope of work, site control measures, emergency procedures and site communications. Daily "tailgate" safety and health briefings will be presented by the SSO at the start of each workday. Records of safety and health briefings will be maintained for the duration of this project.

Subcontractors will be briefed on the potential hazards associated with the project and scope of work, but will be covered under their own company's Health and Safety Plan.

5.0 SITE HISTORY/SCOPE OF SERVICES

The Phase I assessment conducted under the EPA Brownfields Assessment Grant recommended additional Phase II assessment at the target site (reference the preceding Section IV of the Project-Specific Sampling and Analysis Checklist). The site was historically used for manufacturing of washer wringers, aluminum awnings, and munitions and ordnance.

Access will be gained via existing roadways and facility roads. The target property has reportedly been underutilized, closed, or vacant since the mid-1990s. Several of the property buildings are dilapidated and some have been damaged by water. Terrain surrounding the site is relatively flat.

Howard R. Green Company personnel will mobilize to the site to conduct the following services:

- Advancement of soil borings and installation of groundwater monitoring wells utilizing a truck mounted drilling machine.
- Collection and analysis of soil and groundwater samples.
- Collection of sediment and water samples from sumps and outfalls.
- Groundwater aquifer testing.

Anticipated site activities governed by this HASP will require approximately 15 days for completion.

Investigation techniques that could potentially result in exposure include; boring with truck mounted drilling machine, and hand auger drilling activities. Potential contaminants that may be encountered during site operations include; paint solvents/thinners, hydrocarbon fuels (gasoline and diesel fuel), heavy metals (e.g. lead and chromium) and cyanide. Potential routes of exposure include dermal contact and ingestion and inhalation of particulates and/or vapors.

6.0 HAZARD ASSESSMENT

A complete record of all hazardous materials stored, used, and disposed of at the target properties is not available. Buried solid wastes such as paint-related compounds and solvents, hydrocarbon fuels, and heavy metals may be encountered during excavation and soil boring activities. Should the MARSSIM Phase I Scoping Survey indicate that additional health and safety measures are required due to the presence of depleted uranium, this HASP will be updated accordingly.

All Howard R. Green Company personnel who mobilize to the project site will wear Level D personal protective equipment consisting of a standard work uniform, abrasion resistant gloves (leather, heavy PVC), safety footwear (ANSI-Z41), safety glasses (ANSI-Z87), hearing protection (ANSI S3.19), and hardhat (ANSI 89.1). Additional requirements for air monitoring and personal protective requirements for personnel engaged in intrusive operations may be required and are outlined below. Personnel will remain alert to visible staining of equipment and drill tools, chemical odors, or other signs indicating potentially hazardous materials.

6.1 Chemical Hazards

The potential chemicals of concern anticipated during site work are those associated with historical land uses on the target property and surrounding properties. These chemicals of concerns are typically contained within the group of compounds analyzed for by EPA methods 8260B, 8270C, 6010B, 7421, 7471A, 9012, and Iowa Methods OA-1 and OA-2. These laboratory methods analyze for volatile organic, semi-volatile organic, RCRA metals, cyanide and petroleum hydrocarbons which would typically be found in petroleum products, solvents, paints and finishes, and the wastes generated by historical operations conducted on the target site and on surrounding properties.

6.2 Physical Hazards

Activities to be performed on site will involve truck-mounted drilling machines. Personnel should be aware that as personal protective equipment increases, dexterity and visibility may be impacted and performing some tasks may be more difficult. Personnel must remain outside of the swing radius of drilling equipment and backhoes at all times. Operators will ascertain the direction of prevailing winds at each work location. Drilling rigs and excavation equipment will be positioned to the upwind side of each work site.

Safety gloves, footwear, hardhat, eye and hearing protection is MANDATORY for this project. Site debris may pose a tripping hazard at several locations of the property. Partially buried sharp or jagged debris, broken glass and rusty metal pose trip, puncture and potential laceration hazards. Many of the buildings at the site are dilapidated and arson fires caused some damage. The structural integrity of many of the site buildings may be poor. Entry into buildings should only be conducted subsequent to notification of outside site workers. Entry should be cautious and only for the time necessary to complete work activities. Entry into confined spaces is NOT permitted.

The site is covered with buildings and access to interior drilling locations may be difficult. A walking inspection of access pathways may be required prior to mobilization of equipment to some work locations.

6.3 Biological Hazards

In addition to the potential chemical contaminants on the property, disease-causing microorganisms (bacteria, fungus, viruses) may exist in decaying organic materials and molds, which may be present in site buildings, demolition debris, and fill materials. Illness may result from inadvertent ingestion of these microorganisms. Rodents, wild dogs, raccoons and other wild animals, which could bite or carry diseases, may be present at the project site.

6.4 Other Site Specific Hazards

Containerized chemical substances are present at the property and may pose a fire and explosion hazard. Site structures may contain asbestos materials that could become airborne by windy conditions or by disturbance of the building materials. Tailgate safety meetings will include a discussion of other possible site-specific safety hazards, and will address emergency procedures for evacuation, notification of emergency response agencies, and assembly checkpoints.

7.0 AIR MONITORING REQUIREMENTS

The designated Site Safety Officer will ensure that a Photoionization detector (PID) is mobilized to the project site on each day of boring activity. The PID will be calibrated daily (prior to use) in accordance with the manufacturers instructions. The PID detector will be calibrated with isobutylene calibration gas (100 -250 ppm). A response factor of 1.0 will be used during calibration and field operation of the PID used on this project site. Operator manuals will accompany each instrument to the project site.

7.1 Organic Vapors

PID readings will be taken in the breathing zone of site personnel during soil boring and excavation activities. If sustained (>5 minutes continuous) breathing zone PID readings exceed 5 ppm above background or if any unusual chemical odors are noted, personnel will don full face air purifying respirators as described below or evacuate the work area until the individual constituents contributing to the readings can be identified and appropriate respiratory protections measures can be implemented.

Respirators will be equipped with combination acid gas, organic vapor, HEPA cartridges. If sustained breathing zone readings PID readings exceed 25 ppm, personnel will evacuate to the upwind side of the project site and contact the Safety and Health Manager, Project Manger, or Health and Safety Coordinator to report the site conditions encountered. Chemical specific monitoring will be implemented to determine the constituents contributing to the vapor reading and to allow selection of the appropriate level of personal protective equipment.

8.0 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

Intrusive site activities may begin in LEVEL D personal protective equipment to include:

- **Standard Work Uniform**
- **Hard Hat**
- **Rubberized Safety Foot Wear (Steel Toe/Shank per ANSI Z-41)**
- **Impermeable Gloves (PVC, Neoprene or Nitrile)**
- **Safety Eye Wear (ANSI Z-87 approved)**
- **Hearing Protection (ANSI S 3.19)**

If organic vapor (PID) readings during intrusive site activities exceed the action level of 5 ppm specified above, site personnel will be required to upgrade to LEVEL C personal protective equipment (PPE) to include:

- **Full Face Air Purifying Respirators equipped with Combination Organic Vapor/Acid Gas/HEPA cartridges**
- **Chemical Resistant Suit**
- **Chemical Resistant Outer Boot Covers**

Engineering controls may be implemented with the approval of the Health and Safety Manager, Project Manager, or Health and Safety Coordinator to facilitate a safer working environment such that modified Level D PPE may be utilized. Constant monitoring will be required until conditions are again at previously designated working levels.

9.0 SITE CONTROL

The facility is gated and enclosed by chain link fencing. Any area within a 20-foot radius of each boring will be considered the site contaminant zone. Anyone entering this area must be wearing the appropriate personal protective equipment as described in this plan or any addendum to this plan. Personnel entering the contaminant zone must have the authorization of the Howard R. Green Company SSO. All personnel allowed within the contaminant zone must meet the medical surveillance and training requirements of OSHA 29 CFR 1910.120 (see Section 3.0 and Section 4.0 respectively, of this Plan).

Safety cones, barrier fencing or barrier tape will be established at the 20-foot radius if the use of such barricade could reasonably prevent unauthorized access of, and potential injury to, non-authorized personnel. No eating, drinking or smoking will be permitted in either the contaminant or contaminant reduction zones.

10.0 DECONTAMINATION

10.1 Personnel Decontamination

Personnel decontamination is necessary on all potentially contaminated intrusive projects. Personnel decontamination for this project will consist of washing off safety footwear, proper cleaning or disposal of outer and inner gloves and thorough washing of face, arms and hands.

A full body shower will be required as soon as possible upon leaving the project site.

Expendable personal protective equipment will be placed in plastic trash bags, sealed and disposed of per client agreement. Decontamination solutions will be containerized or disposed of as arranged by Project Manager.

10.2 Equipment Decontamination

Decontamination of equipment will be performed to limit the migration of contaminants off-site. All equipment will be cleaned prior to site entry to remove grease, oil and encrusted soil. Decontamination of large equipment will consist of physically removing gross contamination with shovels, brushes etc. followed by detergent and water high-pressure wash with a clean water rinse. Cuttings and decontamination fluids will be handled as outlined in the project work plan.

11.0 SITE COMMUNICATIONS

Communication between personnel within the Exclusion Zone will be via verbal communication or hand signals. Visual contact between members of task teams should be possible throughout the course of project activities. Contact with the SSO will be through direct verbal communication. The hand signals listed below will be used by personnel wherever respiratory protection and/or equipment noise limit verbal communication.

<u>SIGNAL</u>	<u>MEANING</u>
Thumps Up	OK, all is well
Grab throat with both hands	Can't breathe
Shake head, thumbs down	No, negative
Point right when facing equipment operator	Move/steer left
Point left when facing equipment operator	Move/steer right
Grab partner's wrist	Leave area immediately

12.0 EMERGENCY RESPONSE PROCEDURES

In the event that emergency evacuation is necessary, all project personnel will assemble at the facility gate located along Glenwood Street

12.1 Emergency Notification

The Project Manager is responsible for obtaining and recording the following emergency information prior to mobilization:

Location of Nearest Telephone: On-site Cellular Phone (319) 310-5791

On-site Cellular Phone Number: (319) 310-5791

Nearest Hospital/Clinic: Allen Memorial Hospital Phone: (319) 235-3697

Estimated Drive Time: 2 minutes

Directions From Site To Hospital/Clinic:

Use the detachable Hospital Route Diagram and Directions attached as last two (2) pages of this document.

For briefing purposes; Take Esther Street west from the property front entrance and travel a 0.3 miles to US 63 (Logan Avenue). Turn north (right) onto US 64 and travel 0.3 miles to Allen Memorial Hospital located at 1825 Logan Avenue.

EMERGENCY TELEPHONE CONTACTS

Ambulance:	911
Fire Department:	911
Police:	911
Project Manager:	(319) 841-4354 Work (800) 728-7805 Work (319) 573-9936 Mobile
Health and Safety Manager:	(319) 841-4424 Work (800) 728-7805 Work (319) 573-9931 Mobile (319) 377-4235 Home

12.2 Emergency Equipment

The Site Safety Officer will ensure that at least one 10# B/C-rated fire extinguisher is mobilized to the project site during intrusive activity. In addition, a 10-unit (minimum) first aid kit and a supply of clean water will be immediately available at the project site at all times.

12.3 Personal Injury

For minor injuries, such as cuts, burns, exhaustion, heat cramps, insect stings, etc., the affected employee will be removed to an uncontaminated area. The SSO or other designated employee will administer appropriate first aid. All lacerations, abrasions or punctures incurred on project sites must be cleaned, disinfected and bandaged as soon as possible. If the injury warrants additional medical attention (lacerations requiring sutures, direct puncture wounds, etc.), the wounds will be disinfected and bandaged and the employee will be transported to the nearest hospital or emergency medical facility.

For injuries, which may involve spinal injuries, the Site Safety Officer or designee will summon an ambulance to the project site. No attempt will be made by Howard R. Green Company personnel to move the victim without the aid and/or instructions of qualified medical personnel. In the absence of toxic gases or vapors, the ambulance will be directed to the affected employee. If site conditions warrant and as time permits, the wheels of the ambulance will be decontaminated with high-pressure wash.

The SSO or designee will accompany the ambulance to the medical facility, and provide guidance concerning additional decontamination, which may be required for the injured employee, ambulance or attendants. If rescuer(s) assess that the victim cannot be removed without a stretcher or other specialized equipment, the victim will be removed at the earliest possible moment by appropriately attired Howard R. Green Company personnel with the direction and/or assistance of qualified medical response personnel. The injured employee will be immediately decontaminated and transported to the nearest medical facility. A crewmember designated by the SSO will inform the ambulance crew of known site contaminants and will provide assistance with decontamination if required.

12.4 Heat or Cold Stress

All Howard R. Green Company personnel participating in site activities will re-familiarize themselves with the Heat and Cold Stress section (2.4.4) of the Howard R. Green Company Hazardous Waste Operations and Emergency Response Plan (July 19, 2000) prior to mobilizing to the site. The Project Site Safety and Health Officer will contact the Howard R. Green Company Health and Safety Manager, Health and Safety Coordinator, or Project Manager for consultation and recommendations prior to initiating project activities if ambient temperatures below freezing are anticipated. Site personnel will wear thermal gloves over impermeable gloves indicated in the Personal Protective Equipment section of this plan where necessary. Also, insulated hardhat liners, coveralls and boot liners will be mobilized to the site in company issued response bags.

13.0 STANDARD SAFE OPERATING PROCEDURES

- Howard R. Green Company personnel will remain to the UPWIND side and a safe distance from the edge of all excavations during observation and monitoring activities.
- If site activities interrupt the normal flow of pedestrian or vehicular traffic, appropriate barricades will be erected around the project site. Safety orange work vests will be worn by personnel working within 10 feet of any active roadway.
- The Site Safety Officer will ensure that unauthorized personnel do not enter the work zone. Authorized visitors will be briefed on site contaminants, personal protective equipment requirements and decontamination provisions of this HASP.
- The Site Safety Officer will continually inspect the work area for infractions of safety and health requirements contained in this plan.
- The Site Safety Officer will investigate and immediately report all accidents to the Corporate Safety and Health Manager.
- Site activities will be conducted only during daylight hours unless adequate portable lighting is mobilized to the project site.
- All crews shall consist of at least two persons.

14.0 EQUIPMENT SAFETY PROCEDURES

All personnel working in proximity to heavy equipment will be familiarized with the location and operation of emergency kill switches prior to equipment start up.

Because heavy equipment can create major hazards at the job site, the following procedures shall be followed during soil boring and excavation activities:

- Personnel are advised that as the level of personal protection increases, mobility, visibility and communication may become impaired.
- Prior to mobilization to the project site, all underground utilities will be located and properly marked.
- No loose fitting clothing, jewelry or unsecured long hair is permitted near the moving equipment.
- Keep hands and feet AWAY from all moving parts while drilling is in progress. Persons shall not pass under or over a moving stem or auger or hydraulic buckets.
- A first aid kit and fire extinguisher (10 # class B/C, minimum) will be available at all times.

ACKNOWLEDGMENT OF INSTRUCTION

The following must be completed prior to performing site activities. The following acknowledgment must be completed as accurately as possible. It is not a waiver. It is the only method used to compile your environmental on-the-job training and experience records. By written request you may obtain a copy of your environmental work record from the Safety and Health Manager.

PROJECT NAME: **Former Chamberlain Manufacturing Site**
 EPA Region 7 Brownfields Assessment Grant
 Waterloo, Iowa

PROJECT NUMBER: **722930J23**

I understand that this project involves drilling and excavation of subsurface materials at a formerly developed industrial site. Organic vapors and contaminated particulate matter may be encountered during the course of project activities. If organic vapors are detected, I will refer to and abide by the personal protective equipment requirements contained in this plan. Potential for health risk from exposure to the site is expected to be low.

I have read this Site Safety and Health Plan and have received instructions for procedures to be followed. I have had my questions answered regarding safety and health.

NAME: (Print)

Signature:

Date:

Safety Briefing Performed By: _____

PPE Required: Level D _____

Level D Modified X

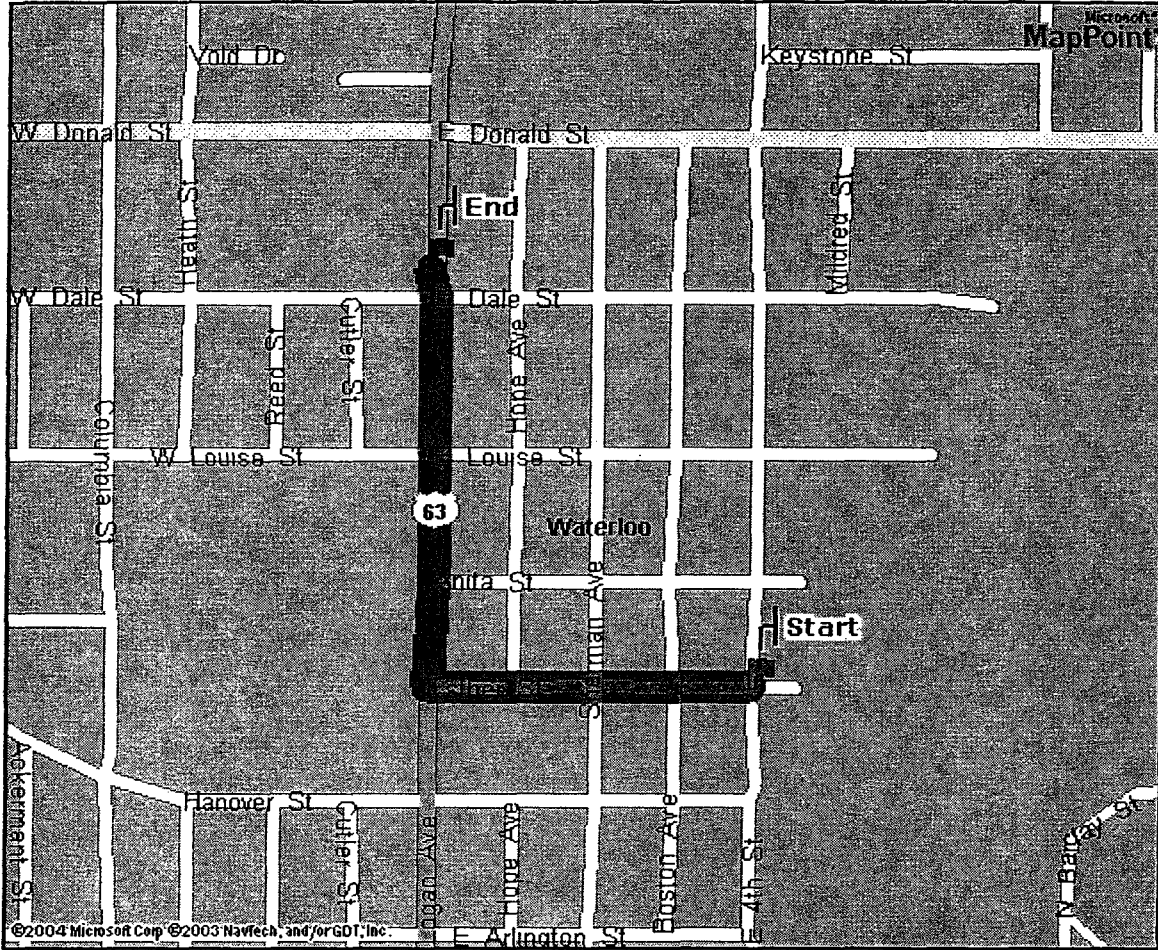
Level C _____

HOSPITAL ROUTE MAP

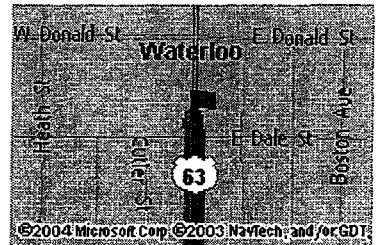
msn Maps & Directions



Start: 550 Esther St, Waterloo, IA 50703
End: 1825 Logan Ave, Waterloo, IA 50703
Total Distance: 0.6 Miles
Estimated Total Time: 2 minutes



Directions	Miles	Map
Start: Depart 550 Esther St, Waterloo, IA 50703 on Esther St (West)	0.3	
1: Turn RIGHT (North) onto US-63 [Logan Ave]	0.3	
End: Arrive 1825 Logan Ave, Waterloo, IA 50703		



Your right to use maps and routes generated on the MSN service is subject at all times to the MSN Terms of Use. [Data credits, copyright, and disclaimer.](#)

Attachment 12

CHANGED CONDITIONS

The results of the MARSSIM Phase I Scoping Survey may result in the following changes:

- 1) The addition of sample collection for radioactive materials.
- 2) Reduced scope for this sampling design due to funding limitations.

APPENDIX B

Figures

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Soil Contamination Map

Figure 4 – Groundwater Contamination Map

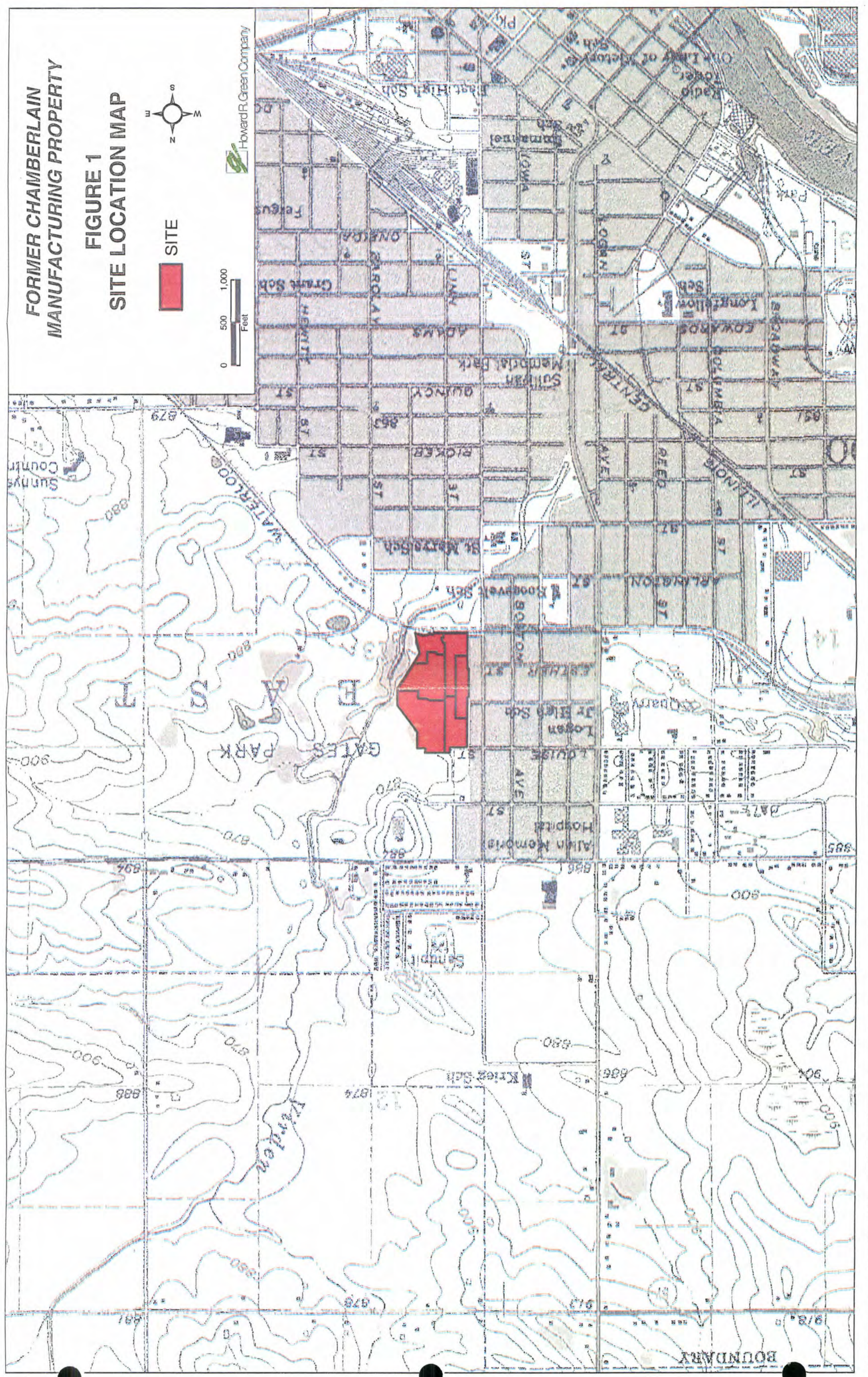
Figure 5 – Miscellaneous Samples

**FORMER CHAMBERLAIN
MANUFACTURING PROPERTY**

**FIGURE 1
SITE LOCATION MAP**



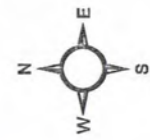
SITE



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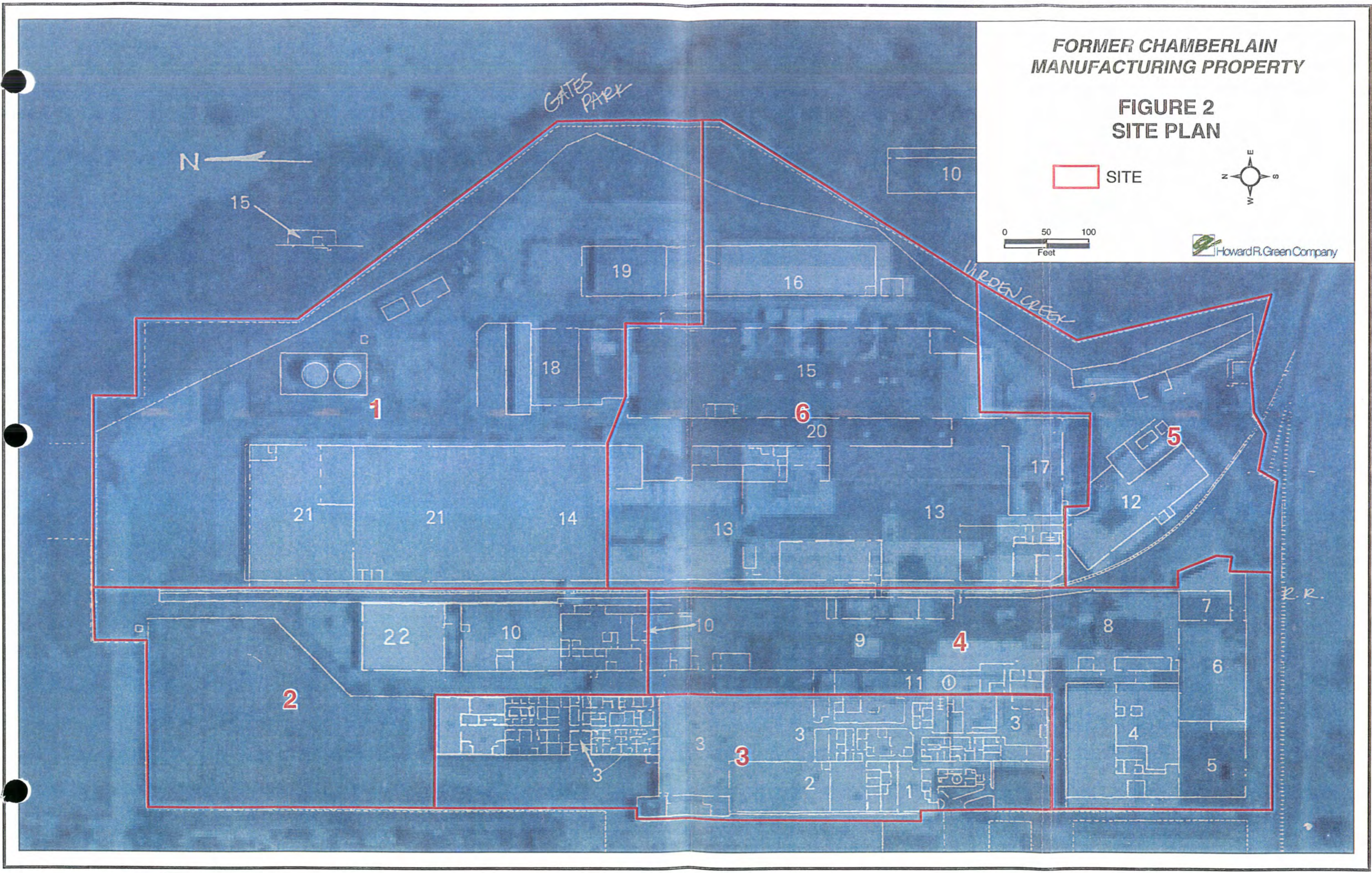
FIGURE 2
SITE PLAN

 SITE



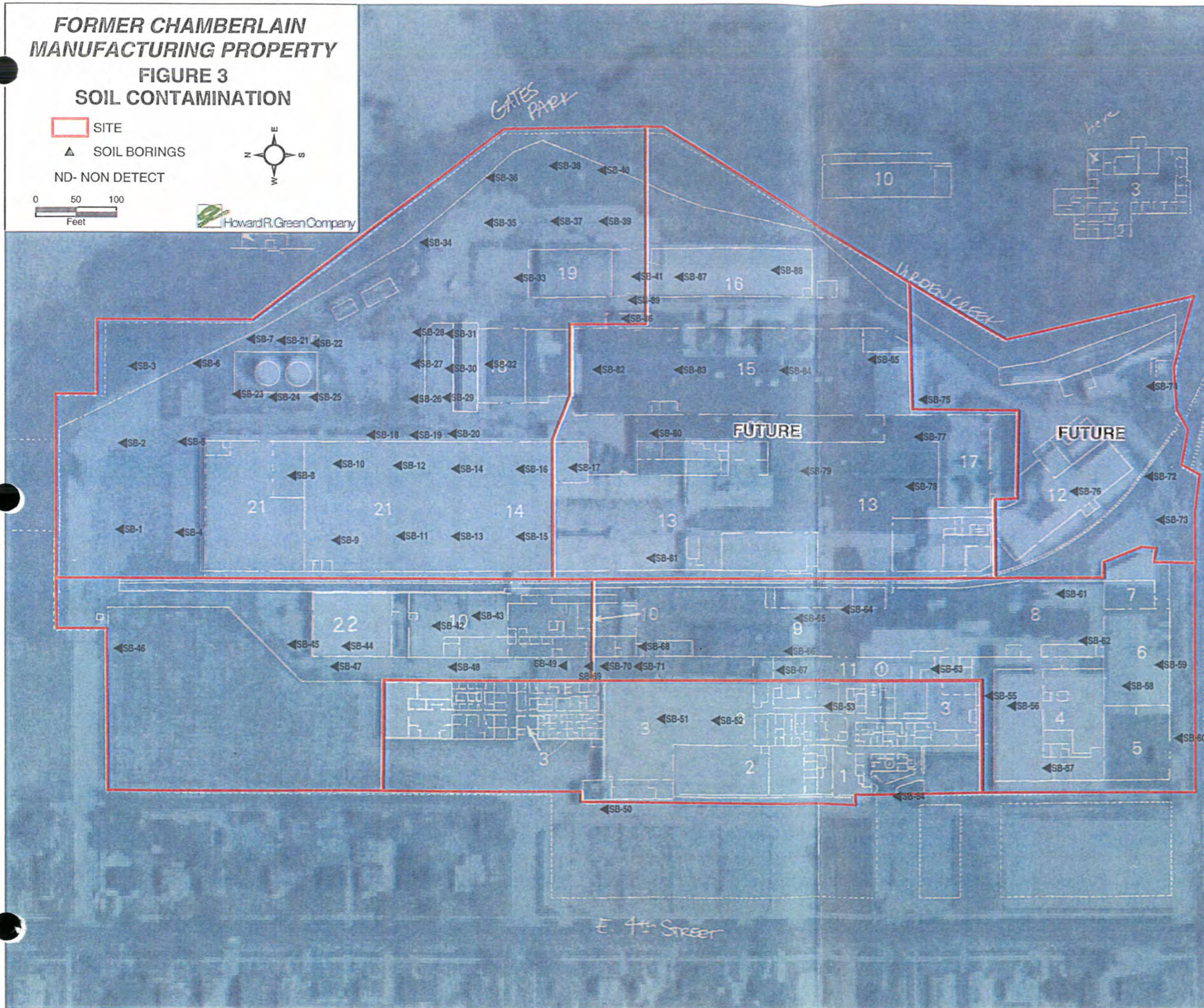
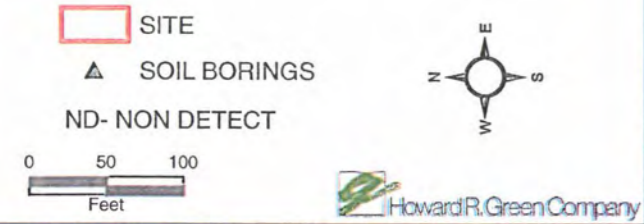
0 50 100
Feet

 Howard R. Green Company



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**FIGURE 3
SOIL CONTAMINATION**








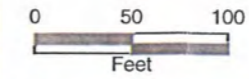
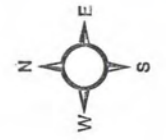
Soil Boring	Range 1 (mg/kg)			Range 2 (mg/kg)		
	TCE	TEH-d	Selected Metals	TCE	TEH-d	Selected Metals
SB-1	ND	---	As-0.971	ND	---	As-0.721
SB-2	0.00869	---	---	0.00114	---	---
SB-3	ND	---	---	0.0786	---	---
SB-4	---	---	---	---	---	---
SB-5	0.00606	---	---	ND	---	---
SB-6	---	---	As-1.63	---	---	As-19.3
SB-7	17.2	---	---	7.24	---	---
SB-8	---	---	---	---	---	---
SB-9	0.0419	---	---	---	---	---
SB-10	ND	---	---	0.0257	---	---
SB-11	0.00454	---	---	---	---	---
SB-12	0.0447	---	As-1.11	---	---	---
SB-13	0.00673	---	As-1.73	---	---	---
SB-14	---	---	As-0.974	---	---	---
SB-15	0.179	---	As-2.0	0.224	---	As-1.4
SB-16	---	---	As-0.844	---	---	---
SB-18	---	---	---	---	---	---
SB-19	---	---	---	---	---	---
SB-20	---	---	---	---	---	---
SB-21	---	ND	---	---	ND	---
SB-22	---	ND	---	---	ND	---
SB-23	---	ND	---	---	683	---
SB-24	---	ND	---	---	ND	---
SB-25	---	ND	---	---	ND	---
SB-26	---	ND	---	---	ND	---
SB-27	---	---	---	---	---	---
SB-28	---	---	---	---	---	---
SB-29	---	---	---	---	---	---
SB-30	---	ND	---	---	ND	---
SB-31	---	---	---	---	---	---
SB-32	---	---	---	---	---	---
SB-33	ND	---	---	ND	---	---
SB-34	5.89	---	As-1.27	7.53	---	As-1.53
SB-35	0.00327	---	As-1.89	0.002	---	As-1.51
SB-36	---	---	---	---	---	---
SB-37	---	---	---	---	---	---
SB-38	---	---	---	ND	---	---
SB-39	---	---	As-3.13	---	---	As-2.41
SB-40	---	---	---	---	---	---
SB-41	---	---	As-1.7	---	---	---
SB-42	0.0486	---	As-2.23	---	---	---
SB-43	---	---	---	---	---	---
SB-44	0.00141	---	---	---	---	---
SB-45	---	ND	---	---	ND	---
SB-46	---	ND	---	---	ND	---
SB-47	ND	---	---	0.00098	---	---
SB-48	0.0367	---	---	0.0279	---	---
SB-49	0.078	---	---	0.172	---	---
SB-50	0.00188	---	As-0.956	ND	---	As-0.767
SB-51	---	---	As-3.80, Cd-132	---	---	---
SB-52	0.288	---	As-1.84	---	---	---
SB-53	0.0128	---	As-1.00	---	---	---
SB-54	0.0097	---	---	ND	---	---
SB-55	---	---	---	---	---	---
SB-56	0.0097	---	---	ND	---	---
SB-57	---	---	As-2.43	---	---	---
SB-58	0.0936	---	As-1.85, As-1.49, Cd-42	---	---	---
SB-59	---	---	---	---	---	---
SB-60	---	---	---	---	---	---
SB-61	---	---	As-6.55, Cd-176	---	---	---
SB-62	---	---	As-5.8	---	---	---
SB-63	0.155	---	As-2.1	---	---	---
SB-64	---	---	---	---	9,300	---
SB-65	---	ND	---	---	ND	---
SB-66	0.0196	---	As-0.876	---	---	---
SB-67	---	---	As-1.13	---	---	---
SB-68	---	10.2	---	---	---	---
SB-70	---	ND	---	---	36.2	---
SB-71	---	ND	---	---	ND	---
SB-89	---	ND	---	---	ND	---

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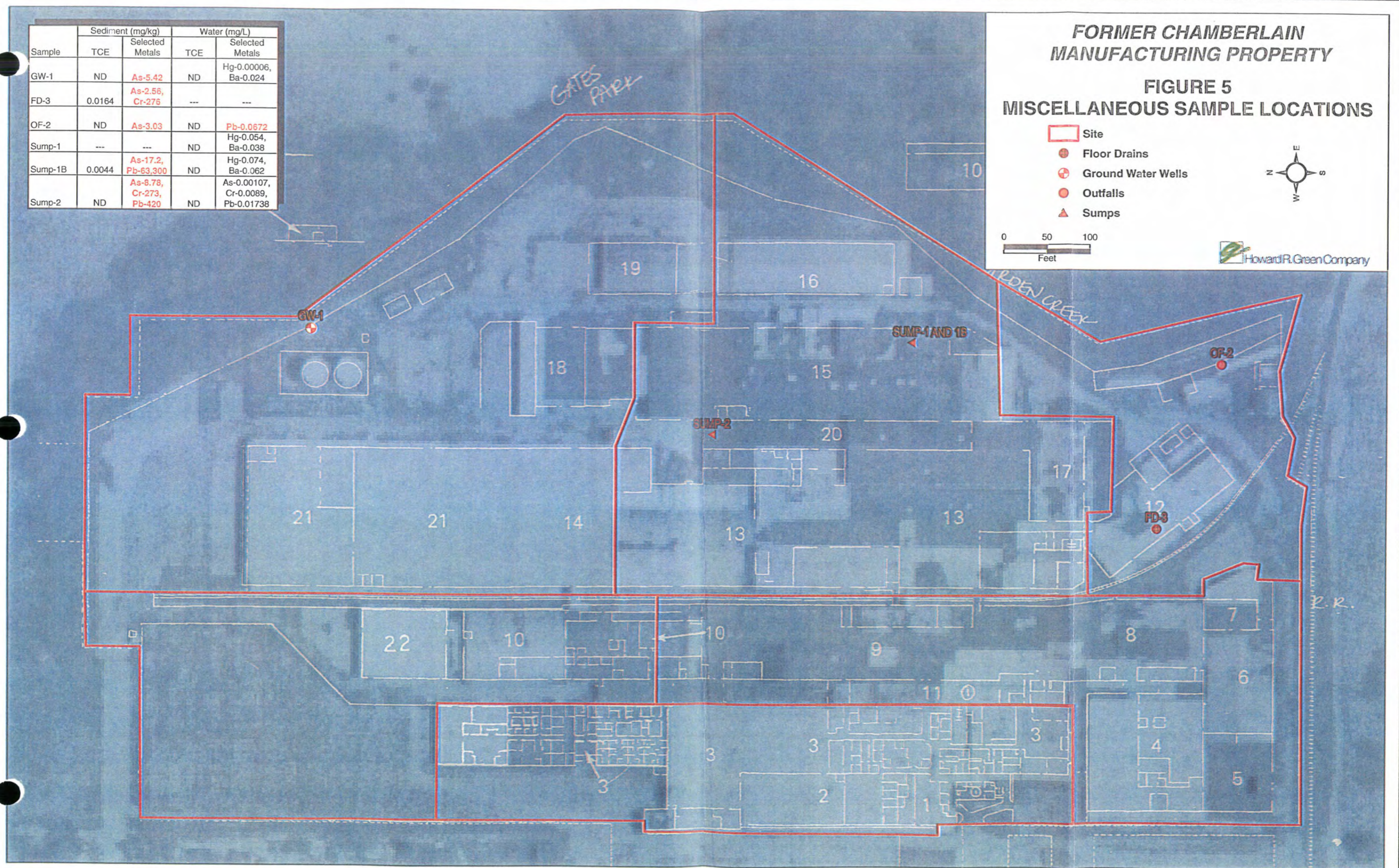
**FIGURE 5
MISCELLANEOUS SAMPLE LOCATIONS**

Sample	Sediment (mg/kg)		Water (mg/L)	
	TCE	Selected Metals	TCE	Selected Metals
GW-1	ND	As-5.42	ND	Hg-0.00006, Ba-0.024
FD-3	0.0164	As-2.56, Cr-276	---	---
OF-2	ND	As-3.03	ND	Pb-0.0672
Sump-1	---	---	ND	Hg-0.054, Ba-0.038
Sump-1B	0.0044	As-17.2, Pb-63,300	ND	Hg-0.074, Ba-0.062
Sump-2	ND	As-8.78, Cr-273, Pb-420	ND	As-0.00107, Cr-0.0089, Pb-0.01738

-  Site
-  Floor Drains
-  Ground Water Wells
-  Outfalls
-  Sumps

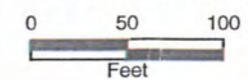
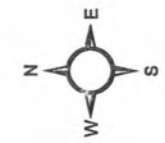


 Howard R. Green Company

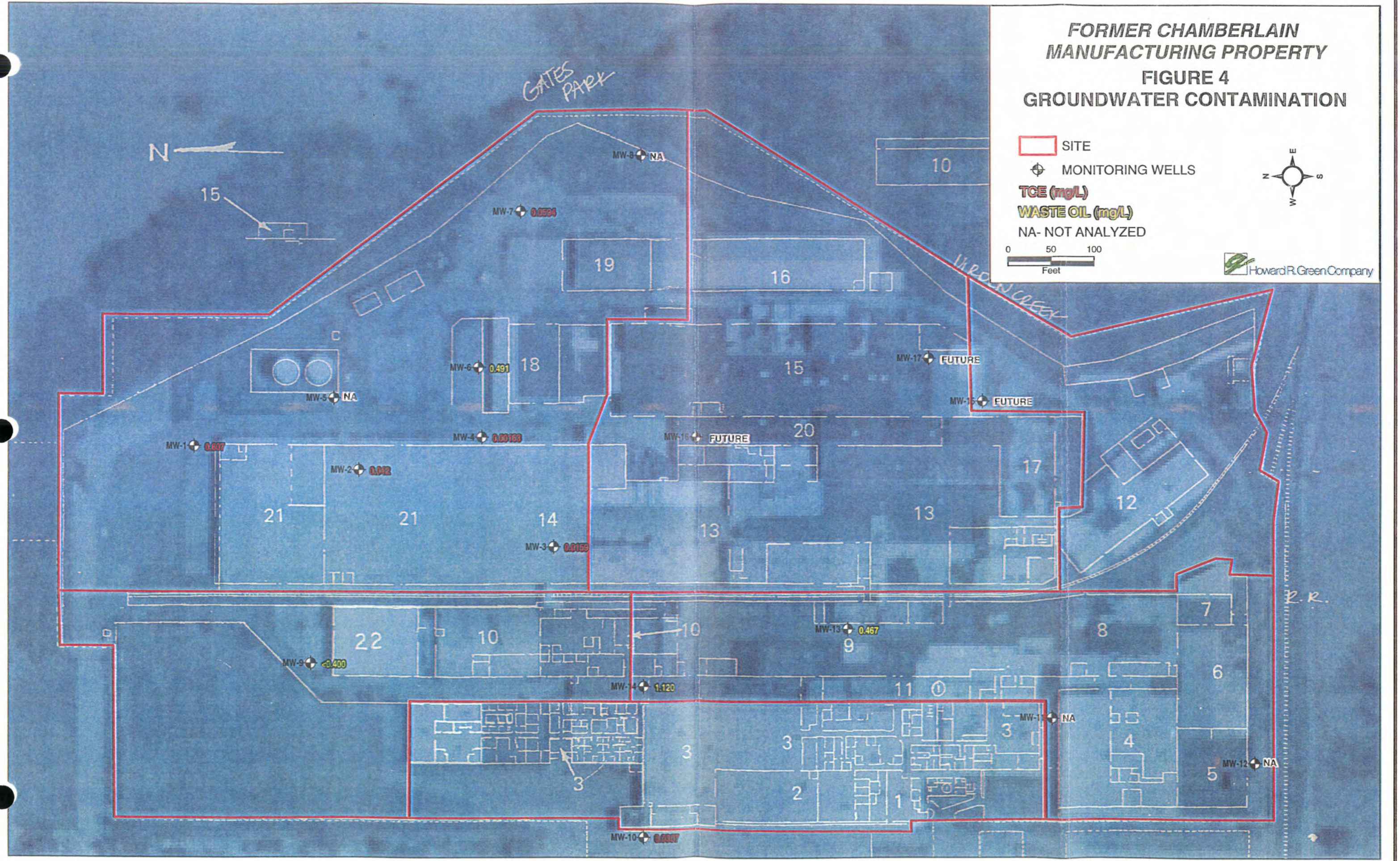


**FORMER CHAMBERLAIN
MANUFACTURING PROPERTY**
**FIGURE 4
GROUNDWATER CONTAMINATION**

- SITE
- MONITORING WELLS
- TCE (mg/L)
- WASTE OIL (mg/L)
- NA- NOT ANALYZED



Howard R. Green Company



APPENDIX C

Radiological Survey

- Exhibit 1 – Radiological Survey Report**
- Exhibit 2 – Letter Report Dated October 13, 2004**

RADIOLOGICAL SURVEY
OF THE
FORMER CHAMBERLAIN MANUFACTURING PROPERTY
550 ESTER STREET
WATERLOO, IA



Prepared for
Howard R. Green Company

August 12, 2004

Ken Kerns
920 Idaho Ave
Ames, IA 50014
(515) 451-0400

Stephen Simpson
1310 Iowa Circle
Ames, IA 50014
(515) 451-1710

Exhibit 1
Radiological Survey Report

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1.0 INTRODUCTION

The former Chamberlain Manufacturing Property located in Waterloo, Iowa consists of multiple single and two-story buildings on 22.5 acres. The Howard R. Green Company conducted a Phase I Environmental Site Assessment and published their report in May 2004. The report included a recommendation that radiation surveys should be performed on areas where radioactive materials were used or stored. The only known use of radioactive material at the site was the production of projectile metal parts using depleted uranium (DU) from 1953-1996. A comprehensive radiological survey of the site was conducted in July 2004 to determine if radiological contamination was present. The areas of concern were surveyed for fixed and loose contamination.

2.0 HISTORICAL SITE ASSESSMENT

A detailed historical sited assessment is available in the Howard R. Green Phase 1 assessment report dated May 2004. The assessment included historical records reviews, a search of local, state and federal environmental databases, onsite and surrounding area reconnaissance and interviews with current and past property owners and/or their representatives. The site assessment identified nine areas where DU projectiles were manufactured or stored, or where research on DU may have been conducted. These nine areas occupy about 6000 square meters of building space. There are no historical accounts of any operations involving DU occurring outside of these nine areas of concern. There is no basis to anticipate contamination of the grounds surrounding the buildings.

3.0 DATA QUALITY OBJECTIVE

For this project, the premise was used that any radiation levels exceeding twice background would be considered potentially contaminated requiring further characterization and potential remediation. Due to the large areas that had to be covered and the fact the surfaces were generally concrete, portable radiation detection equipment was used for the survey. Wipe samples were collected to verify the absence of "loose contamination"; it was neither feasible nor necessary to collect other samples of the surfaces for laboratory analyses.

The most comprehensive, thorough, and accurate method to determine if radioactivity was present beyond twice background was to perform fixed counts at fixed points within established grid areas for the floors and the lower two meters of the walls in the areas of concern.

The null hypothesis tested during this review was "because the Chamberlain Manufacturing Facility used depleted uranium in the production of military rounds, residual contamination from the DU would be found at the site". If any radiation levels above twice background were identified during the study, additional characterization and

remediation of the site would be required. If radiation levels measured were below twice background, then the null hypothesis would be rejected.

4.0 SURVEY PROCEDURES

4.1 Survey Grid Areas

Five-meter by five-meter grids were laid out on the floor of each area of concern (for depleted uranium) identified in the Phase I Assessment Report. Two areas of concern (2-7 and 3-10) were laid out using 20 foot by 20 foot grids because of their large size and existing landmarks that made the alternate grid size more logical. Five-meter wide by two-meter high grids were laid out on the wall of each area of concern (20 feet x 2 meters for areas 2-7 and 3-10).

The survey areas were identified by markings on the floors and walls, and in areas where permanent marks could not be made, such as in damp or excessively dusty areas, plastic drinking cups labeled with the grid coordinates were used. The grid maps for the nine areas of concern are found in attachment 1.

4.2 Background Determination

The background radiation levels were determined by identifying a specific background area for each area of concern. The background areas chosen would be of similar construction and age and would be in a non-impacted area.

A five-meter by five-meter meter grid (a 20 foot x 20 foot grid for areas 2-7 and 3-10) was laid out on a floor of the background areas.

The background areas for walls were chosen using the same criteria as the floors. The grid size for the walls was five meters wide by two meters high (20 feet x 2 meters for areas 2-7 and 3-10).

Twenty-five survey measurements were taken from each background floor area and ten surveys readings were taken from each background wall area to determine an average background level. Five wipe samples were collected from each floor background area and three wipes were collected from each wall background area to determine the average loose alpha radiation counts.

The exposure rate was measured and recorded in each spot where a background wipe sample was collected.

4.3 Radiation Detection

Several radiation detection instruments were used during the survey and for counting wipe samples. The equipment selection was based on the sensitivity required to detect the DU and on the need to cover very large areas in a reasonable period. The instruments were in calibration and operational checks were conducted daily (before and after surveys).

4.3.1 Sodium Iodide detectors

A three-inch Sodium Iodide (NaI) solid-state detector was used for the bulk of the surface surveys. The detector was shielded for collimation and mounted on a cart to keep a uniform distance from the surface through the survey. The detector was used with a Ludlum 2221 rate meter. The results were recorded in gross counts per minute.

A one-inch NaI detector was available as a backup or to conduct detailed surveys of any areas exceeding twice background.

4.3.2 Pressurized Ion Chamber

An Invision 451P pressurized ion chamber was used to determine the exposure rates on contact with the floors and walls of the affected areas. The exposure rates were measured in uR/hr.

4.3.3 Pancake probe Geiger-Mueller (GM) detector

A pancake GM detector was available to conduct a detailed survey of any areas that were measured as greater than twice background. This instrument is effective in localizing the source of any hotspots. This detector was also used to measure the exposure rates on contact in mR/hr.

4.3.4 Wipe samples

Wipes samples were collected from each survey unit by wiping approximately a 100 square centimeter surface with a 1-inch diameter filter paper. (Wipe samples were not collected from area 3-7 due to excessive moisture and mold on all surfaces.) The wipe samples were counted for alpha contamination using Tennelec proportional counters (models LB5100 and S5-XLB).

5.0 INTERPRETATION OF RESULTS

5.1 Surface Surveys

The average background count rate determined for the floors and walls for each area of concern was compared to the average count rate for each grid area within that area of concern. The average count rate within each grid area for all areas surveyed was less than the twice background, the established action level. Summary tables of the survey results are found in Appendix B.

5.2 Wipe Samples

The average background alpha count rate for wipe samples taken on the floors and walls for each area of concern was compared to the average alpha count rate for the entire study area. The average of the entire study area was used because of the lower number of samples collected and the low count rates measured, which would have resulted in high standard deviations if individual background averages were used.

The average alpha count rate within each grid area for all areas surveyed was less than twice the average background. This is an indication that no loose alpha contamination is present in any of the surveyed areas. Summary tables of the wipe sample results are found in Appendix C.

5.3 Exposure Rates

The background exposure rate for the floors and walls for each area of concern was compared to the exposure rate in each grid. All readings were within the range of background.

6.0 CONCLUSION

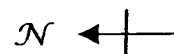
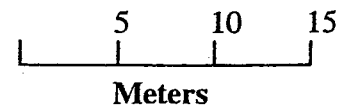
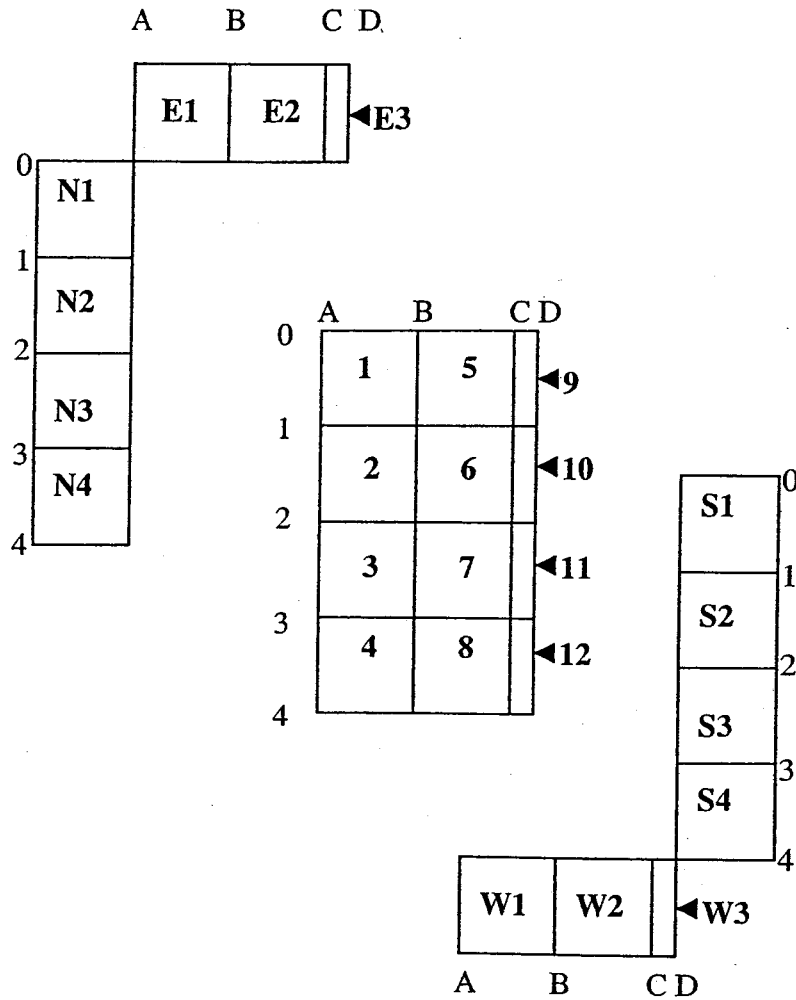
The area surveys and laboratory analyses did not identify any areas greater than twice background. These results indicate that no radiological contamination is present at the site and no further action is required based on radiological conditions.

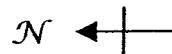
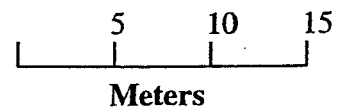
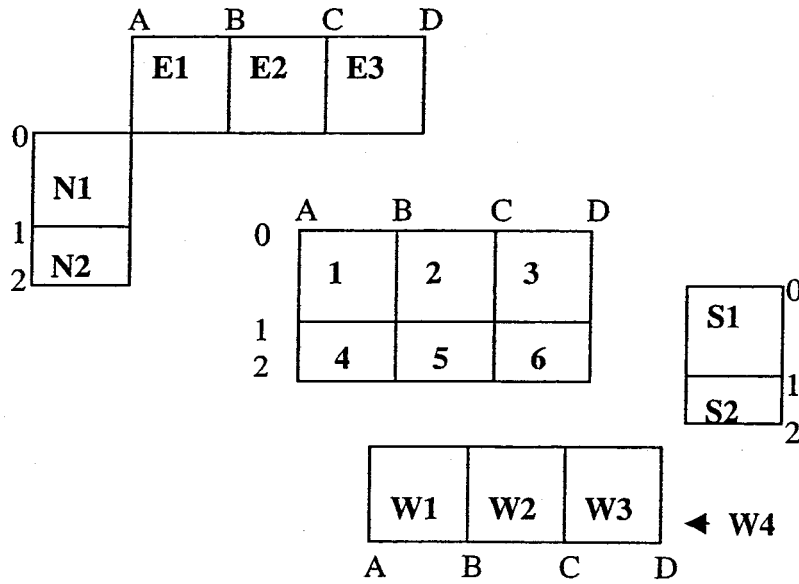
Based on these data, the null hypothesis that the Chamberlain Manufacturing Facility was contaminated with depleted uranium is rejected. Rejection of the null hypothesis means that no further radiological characterization (excluding any future subsurface sampling) is necessary.

7.0 REFERENCES

1. Howard R. Green Company, Phase I Environmental Site Assessment; Former Chamberlain Manufacturing Property, May 2004
2. Howard R. Green Company, Property Specific Sampling and Analysis Checklist, Former Chamberlain Manufacturing Corporation, May 2004
3. NUREG-1575, Rev. 1/EPA 4402-R-97-016, Rev. 1, "Multi-Agency Radiation Survey and Site Investigation Manual", August 2000

Appendix A
GRID MAPS





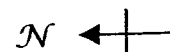
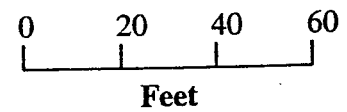
A	B	C	D	E	F
E1	E2	E3	E4	E5	

4	N4
3	N3
2	N2
1	N1
0	

A	B	C	D	E	F
4	16	17	18	19	20
3	11	12	13	14	15
2	6	7	8	9	10
1	1	2	3	4	5
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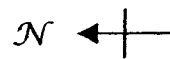
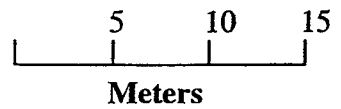
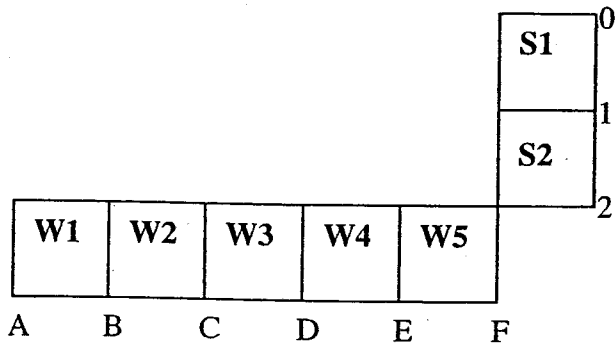
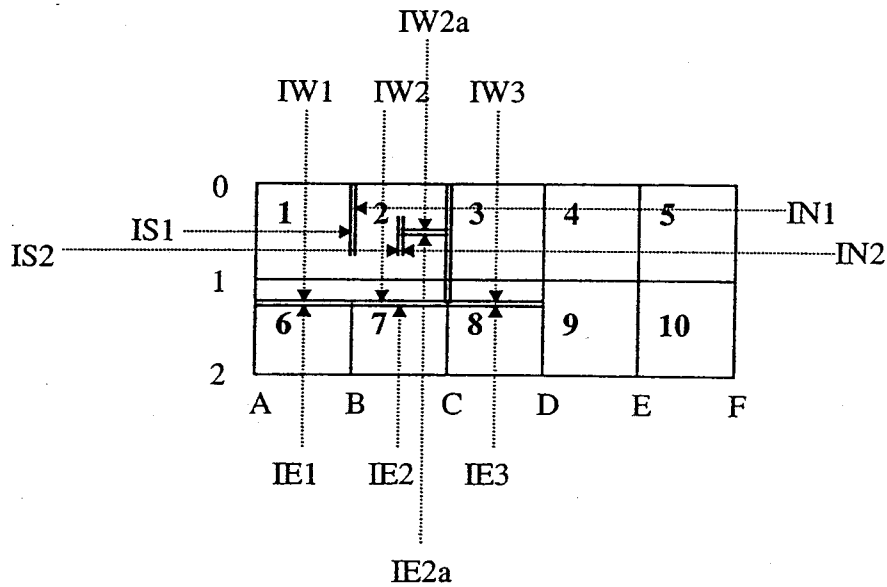
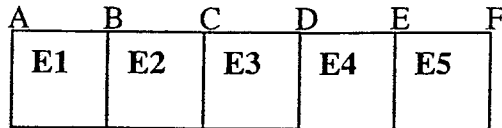
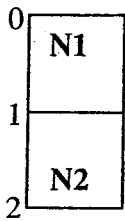
4	S1
3	S2
2	S3
1	S4
0	

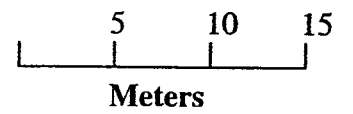
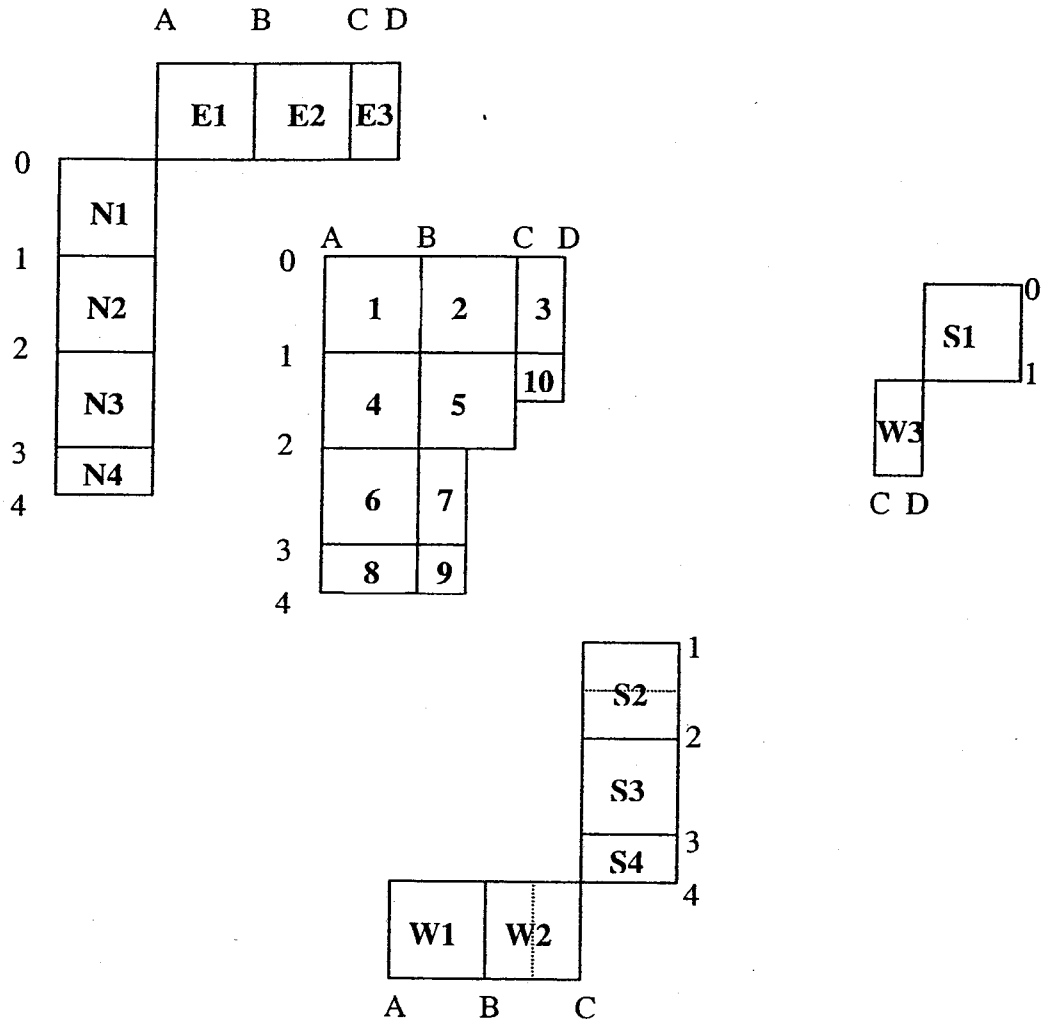
W1	W2	W3	W4	W5	
A	B	C	D	E	F



Grid Map for Area of Concern: 3-4

Building: 3





Grid Map for Area of Concern: 3-10

Building: 3

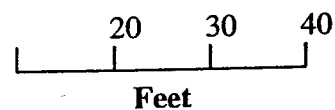
A	B	C	D	E	F	GH
E1	E2	E3	E4	E5	E6 E7 ▶	

	A	B	C	D	E	F	GH
0	1	2	3	4	5	6 7 ▶	
1	8	9	10	11	12	13 14 ▶	
2	15	16	17	18	19	20 21 ▶	
3	22	23	24	25	26	27 28 ▶	
4							

S1	0
S2	1
S3	2
S4	3
	4

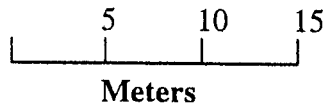
W2	W3	W4	W5	W6 W7 ▶
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B C D E F GH



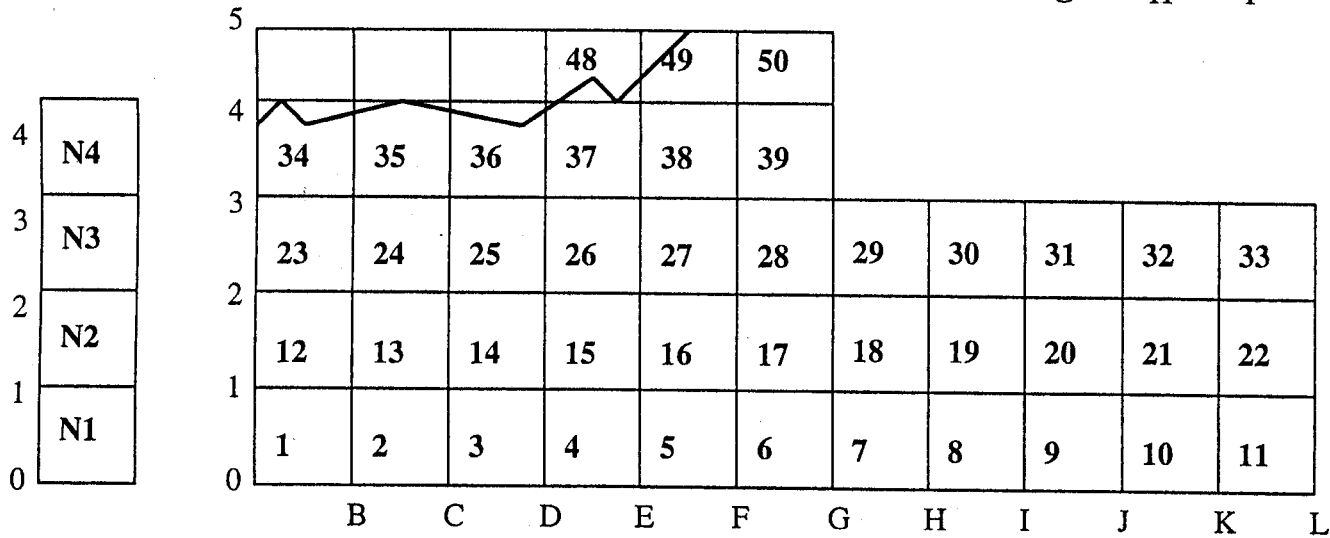
Grid Map for Area of Concern: 5-1

Building: 12

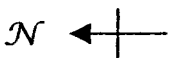
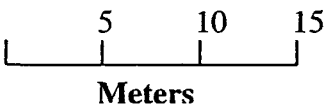
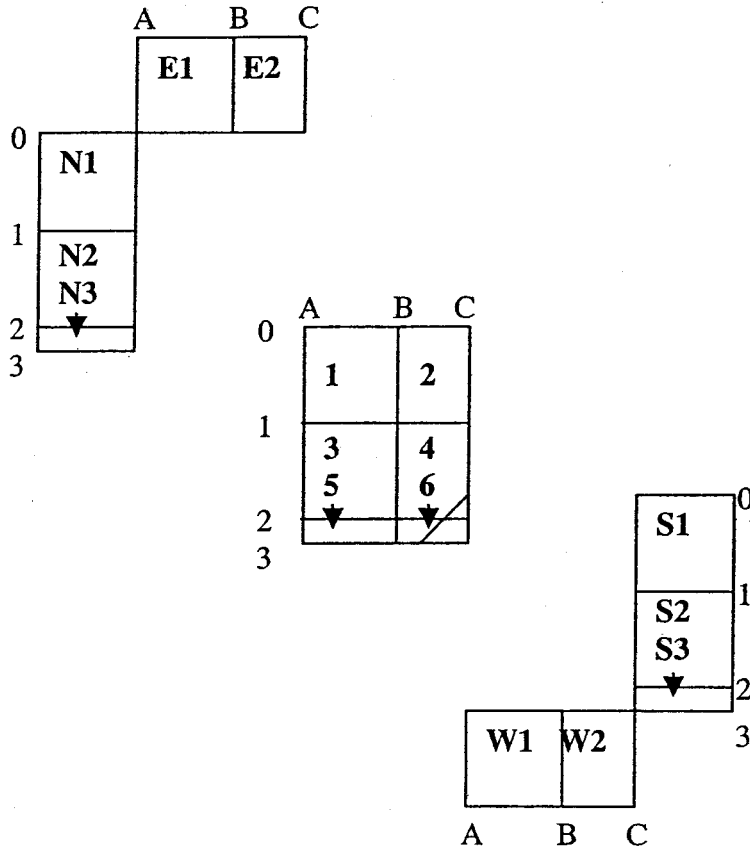


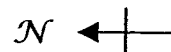
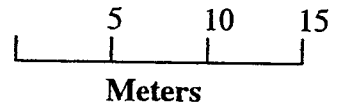
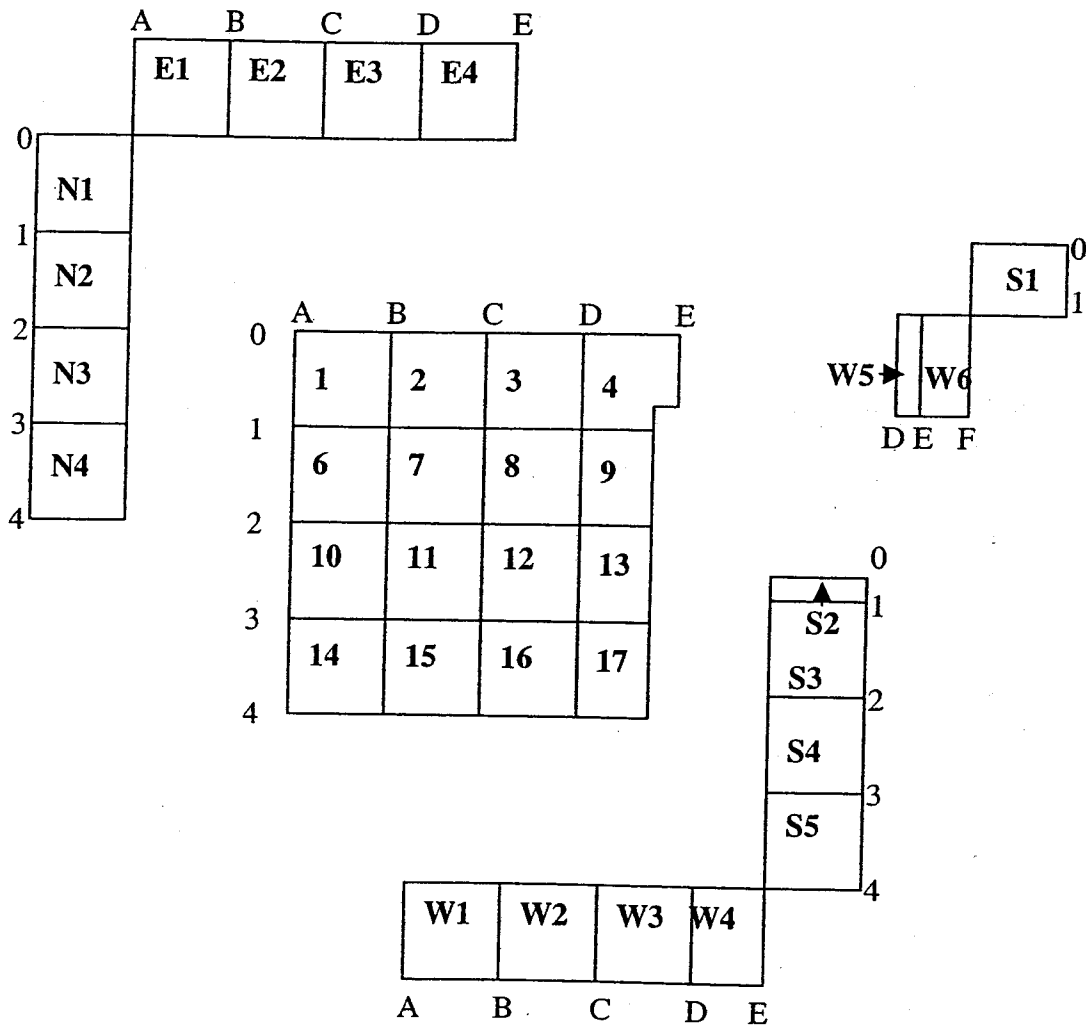
A	B	C	D	E	F	G
E1	E2	E3	E4	E5	E6	

5	S5										
4	S4										
3		E9	E10	E11	E12	E13					
		G	H	I	J	K	L				



A	B	C	D	E	F	G	H	I	J	K	L
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	





Appendix B
Survey Data

Survey Background Averages (counts per minute)
(using the 3x3 NaI detector system)

AOC	Floors		Walls	
	Average	Std Dev.	Average	Std. Dev.
1-8	4030	216	3927	145
2-6	4305	328	5018	160
2-7	4352	337	5125	341
3-4	5621	328	5336	316
3-7	5052	281	5287	409
3-10	6013	284	5931	309
5-1	4553	273	4777	584
6-3	6142	467	4814	422
6-5	5983	318	4764	467

Survey Averages (counts per minute) for 1-8
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	3609	0.46
N2	3489	0.44
N3	3327	0.42
N4	3576	0.46
E1	4204	0.54
E2	4140	0.53
E3	3992	0.51
S1	4291	0.55
S2	4371	0.56
S3	3967	0.51
S4	4044	0.51
W1	3547	0.45
W2	3510	0.45
W3	3531	0.45
1	4263	0.54
2	4140	0.53
3	3980	0.51
4	4033	0.51
5	4366	0.56
6	4137	0.53
7	4074	0.52
8	4042	0.51
9	4463	0.57
10	4465	0.57
11	4479	0.57
12	4192	0.53

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 2-6
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	5294	0.53
N2	4953	0.49
E1	5882	0.59
E2	5029	0.50
E3	5266	0.52
S1	4687	0.47
S2	4609	0.46
W1	5145	0.51
W2	4963	0.49
W3	4871	0.49
1	4809	0.56
2	4952	0.58
3	4708	0.55
4	5029	0.58
5	4836	0.56
6	4667	0.54

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 2-7
 (using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	3603	0.35
N2	3759	0.37
N3	3854	0.38
N4	4021	0.39
E1	4209	0.41
E2	4186	0.41
E3	4186	0.41
E4	4113	0.40
E5	4087	0.40
S1	4722	0.46
S2	4540	0.44
S3	4695	0.46
S4	4239	0.41
W1	3784	0.37
W2	4058	0.40
W3	4128	0.40
W4	4111	0.40
W5	4427	0.43
1	3790	0.44
2	3969	0.46
3	3905	0.45
4	4095	0.47
5	4203	0.48
6	3716	0.43
7	3672	0.42
8	3716	0.43
9	3772	0.43
10	3981	0.46
11	4005	0.46
12	3865	0.44
13	3781	0.43
14	3796	0.44
15	3866	0.44
16	4055	0.47
17	4161	0.48
18	4076	0.47
19	4016	0.46
20	4088	0.47

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 3-4
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	4084	0.38
N2	4130	0.39
E1	4463	0.42
E2	4978	0.47
E3	5018	0.47
E4	5139	0.48
E5	4782	0.45
S1	4656	0.44
S2	5012	0.47
W1	4164	0.39
W2	4224	0.40
W3	3954	0.37
W4	4054	0.38
W5	4503	0.42
IN1	4397	0.41
IN2	4515	0.42
IE1	4256	0.40
IE2	4025	0.38
IE2a	3810	0.36
IE3	4041	0.38
IS1	4218	0.40
IS2	4202	0.39
IW1	4166	0.39
IW2	4062	0.38
IW2a	3840	0.36
IW3	4346	0.41
1	4263	0.38
2	4140	0.37
3	3980	0.35
4	4033	0.36
5	4366	0.39
6	4137	0.37
7	4074	0.36
8	4042	0.36
9	4463	0.40
10	4465	0.40

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 3-7
 (using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	4445	0.42
N2	4699	0.44
N3	4497	0.43
N4	4497	0.43
E1	4586	0.43
E2	4126	0.39
E3	4662	0.44
S1	3929	0.37
S2	3934	0.37
S3	3754	0.36
S4	4222	0.40
W1	4207	0.40
W2	3817	0.36
W3	3698	0.35
1	4840	0.48
2	4891	0.48
3	4832	0.48
4	4760	0.47
5	4678	0.46
6	4553	0.45
7	4409	0.44
8	4551	0.45
9	4868	0.48
10	4798	0.47

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 3-10
 (using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
E1	5848	0.49
E2	6154	0.52
E3	5978	0.50
E4	6220	0.52
E5	6451	0.54
E6	5578	0.47
E7	4605	0.39
S1	4464	0.38
S2	4327	0.36
S3	4171	0.35
S4	4677	0.39
W2	5549	0.47
W3	6341	0.53
W4	6293	0.53
W5	6489	0.55
W6	5174	0.44
W7	4939	0.42
1	6644	0.56
2	6385	0.54
3	5959	0.50
4	6836	0.58
5	6995	0.59
6	5645	0.48
7	5302	0.45
8	6500	0.55
9	6321	0.53
10	6154	0.52
11	6284	0.53
12	6334	0.53
13	5176	0.44
14	5367	0.45
15	6119	0.52
16	6258	0.53
17	6333	0.53
18	6221	0.52
19	5848	0.49
20	5045	0.43
21	4935	0.42
22	5686	0.48
23	6547	0.55
24	6734	0.57
25	6234	0.53
26	6581	0.55
27	5301	0.45
28	5060	0.43

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 5-1
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	5393	0.69
N2	5358	0.68
N3	5444	0.69
N4	5240	0.67
E1	5492	0.70
E2	5187	0.66
E3	5113	0.65
E4	5034	0.64
E5	5226	0.67
E6	5675	0.72
E7	5762	0.73
E8	6036	0.77
E9	5137	0.65
E10	4807	0.61
E11	5575	0.69
E12	5560	0.69
E13	5746	0.71
S1	5620	0.70
S2	5422	0.67
S3	5542	0.69
S4	5598	0.69
S5	5780	0.72
W1	5400	0.67
W2	5215	0.65
W3	5166	0.64
W4	5668	0.70
W5	5605	0.70
W6	5431	0.67
W7	4641	0.58
W8	5315	0.66
W9	5788	0.72
W10	5866	0.73
W11	5688	0.71
1	4928	0.61
2	4592	0.57
3	5348	0.66
4	5859	0.73
5	5729	0.71
6	5690	0.71
7	5270	0.65
8	5642	0.70
9	5744	0.71

	Average CPM	*Ratio to 2xBackground
10	5886	0.73
11	5728	0.71
12	4333	0.54
13	4333	0.54
14	5334	0.66
15	5514	0.68
16	5420	0.67
17	5339	0.66
18	5652	0.70
19	5301	0.66
20	5924	0.73
21	5835	0.72
22	5926	0.74
23	4793	0.59
24	4837	0.60
25	5428	0.67
26	5650	0.70
27	5364	0.67
28	5655	0.70
29	5543	0.69
30	4923	0.61
31	5175	0.64
32	5303	0.66
33	5539	0.69
34	5920	0.73
35	5647	0.70
36	4726	0.59
37	5507	0.68
38	5504	0.68
39	5125	0.64
48	5687	0.71
49	5918	0.73
50	6008	0.75

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 6-3
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	4541	0.58
N2	4797	0.61
N3	5213	0.66
E1	4686	0.60
E2	5275	0.67
S1	4985	0.63
S2	5271	0.67
S3	5628	0.72
W1	5210	0.66
W2	5544	0.71
1	5305	0.68
2	5846	0.74
3	5739	0.73
4	5761	0.73
5	5661	0.70
6	5777	0.72

* If ratio >1.00, then investigation needed

Survey Averages (counts per minute) for 6-5
(using the 3x3 NaI detector system)

	Average CPM	*Ratio to 2xBackground
N1	5247	0.67
N2	4854	0.62
N3	4600	0.59
N4	4708	0.60
E1	5076	0.65
E2	5031	0.64
E3	5182	0.66
E4	5411	0.69
E5	5245	0.67
S1	4918	0.63
S2	5012	0.64
S3	4631	0.59
S4	4741	0.60
S5	5031	0.64
W1	5241	0.67
W2	5101	0.65
W3	5550	0.71
W4	5298	0.67
W5	4769	0.61
W6	4882	0.62
1	5745	0.73
2	5862	0.75
3	6106	0.78
4	5926	0.75
5	5973	0.76
6	5083	0.65
7	5320	0.68
8	5285	0.67
9	4494	0.57
10	5736	0.73
11	5559	0.71
12	5958	0.76
13	5901	0.75
14	5618	0.72
15	6077	0.77
16	6198	0.79
17	6273	0.80

* If ratio >1.00, then investigation needed

Appendix C
Wipe Samples Data

Wipe Sample Background Averages (counts per minute)
(using gas proportional counting systems)

AOC	Floors		Walls	
	Average	Std Dev.	Average	Std. Dev.
1-8	2.60	0.89	5.00	2.00
2-6	1.60	1.10	0.70	0.60
2-7	1.80	1.10	3.17	3.00
3-4	1.70	0.70	1.80	0.40
3-7	--	--	--	--
3-10	2.00	0.70	1.60	0.90
5-1	1.60	0.90	1.89	1.10
6-3	4.20	1.10	2.33	2.10
6-5	4.20	1.10	3.33	1.50
Average	2.46	0.95	2.48	1.45

Average Floor Background (99% confidence) = 5.3 cpm
 Average Walls Background (99% confidence) = 6.8 cpm

Wipe Sample Averages (counts per minute) for 1-8
(using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
N1	3	0.2
N2	1	0.1
N3	4	0.3
N4	2	0.1
W1	3	0.2
W2	1	0.1
W3	1	0.1
S1	4	0.3
S2	2	0.1
S3	1	0.1
S4	3	0.2
E1	3	0.2
E2	0	0.0
E3	1	0.1
1	2	0.2
2	2	0.2
3	6	0.6
4	1	0.1
5	2	0.2
6	0	0.0
7	0	0.0
8	2	0.2
9	5	0.5
10	1	0.1
11	2	0.2
12	1	0.1

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 2-6
(using gas proportional counting systems)

GRID	Gross:CPM	*Ratio to 2xBackground
N1	1	0.1
N2	3	0.2
W1	0	0.0
W2	2	0.1
W3	3	0.2
S1	0	0.0
S2	0	0.0
E1	2	0.1
E2	3	0.2
E3	0	0.0
1	4	0.4
2	0	0.0
3	2	0.2
4	4	0.4
5	1	0.1
6	4	0.4

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 2-7
(using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
N1	3	0.2
N2	1	0.1
N3	3	0.2
N4	1	0.1
N5	0	0.0
W1	3	0.2
W2	1	0.1
W3	3	0.2
W4	0	0.0
S1	1	0.1
S2	4	0.3
S3	1	0.1
S4	1	0.1
S5	0	0.0
E1	1	0.1
E2	2	0.1
E3	1	0.1
E4	4	0.3
1	3	0.3
2	0	0.0
3	3	0.3
4	3	0.3
5	2	0.2
6	1	0.1
7	2	0.2
8	1	0.1
9	2	0.2
10	1	0.1
11	1	0.1
12	3	0.3
13	2	0.2
14	2	0.2
15	1	0.1
16	2	0.2
17	1	0.1
18	0	0.0
19	2	0.2
20	4	0.4

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 3-4
(using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
N1	3	0.2
N2	1	0.1
E1	1	0.1
E2	1	0.1
E3	2	0.1
E4	3	0.2
E5	2	0.1
S1	2	0.1
S2	1	0.1
W1	3	0.2
W2	1	0.1
W3	1	0.1
W4	1	0.1
W5	5	0.4
IN1	3	0.2
IN2	1	0.1
IE1	1	0.1
IE2	2	0.1
IE2a	2	0.1
IE3	1	0.1
IS1	3	0.2
IS2	1	0.1
IW1	2	0.1
IW2	2	0.1
IW2a	2	0.1
IW3	1	0.1
1	2	0.2
2	3	0.3
3	2	0.2
4	1	0.1
5	1	0.1
6	3	0.3
7	3	0.3
8	1	0.1
9	1	0.1
10	1	0.1

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 3-10
 using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
E1	4	0.3
E2	4	0.3
E3	1	0.1
E4	1	0.1
E5	1	0.1
E6	2	0.1
E7	1	0.1
S1	2	0.1
S2	1	0.1
S3	4	0.3
S4	1	0.1
W2	3	0.2
W3	1	0.1
W4	2	0.1
W5	1	0.1
W6	3	0.2
W7	1	0.1
1	1	0.1
2	2	0.2
3	1	0.1
4	2	0.2
5	3	0.3
6	1	0.1
7	2	0.2
8	3	0.3
9	1	0.1
10	3	0.3
11	2	0.2
12	1	0.1
13	2	0.2
14	2	0.2
15	1	0.1
16	3	0.3
17	1	0.1
18	2	0.2
19	2	0.2
20	2	0.2
21	2	0.2
22	2	0.2
23	1	0.1
24	2	0.2
25	2	0.2
26	1	0.1
27	2	0.2
28	1	0.1

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 5-1
 (using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
W1	1	0.1
W2	1	0.1
W3	1	0.1
W4	2	0.1
W4a	2	0.1
W5	1	0.1
W5a	1	0.1
W6	2	0.1
W7	5	0.4
W8	2	0.1
W9	1	0.1
W10	2	0.1
W11	2	0.1
N1	2	0.1
N2	2	0.1
N3	1	0.1
N4	2	0.1
E1	1	0.1
E2	2	0.1
E3	1	0.1
E4	3	0.2
E5	3	0.2
E6	1	0.1
E7	2	0.1
E8	1	0.1
E8a	3	0.2
E9	2	0.1
E9a	1	0.1
E10	3	0.2
E11	1	0.1
S1	2	0.1
S2	1	0.1
S3	2	0.1
1	1	0.1
2	2	0.2
3	2	0.2
4	2	0.2
5	1	0.1
6	2	0.2
7	1	0.1
8	1	0.1
9	1	0.1

GRID	Gross CPM	*Ratio to 2xBackground
10	1	0.1
12	2	0.2
13	2	0.2
14	4	0.4
15	1	0.1
16	2	0.2
17	2	0.2
18	1	0.1
19	1	0.1
20	3	0.3
21	2	0.2
22	5	0.5
23	2	0.2
24	1	0.1
25	1	0.1
26	1	0.1
27	1	0.1
28	2	0.2
29	1	0.1
30	3	0.3
31	1	0.1
32	2	0.2
33	2	0.2
34	1	0.1
35	3	0.3
36	1	0.1
37	1	0.1
38	1	0.1
39	2	0.2
48	1	0.1
49	2	0.2
50	2	0.2

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 6-3
(using gas proportional counting systems)

GRID	Gross CPM	*Ratio to 2xBackground
N1	1	0.1
N2	3	0.2
N3	1	0.1
E1	1	0.1
E2	4	0.3
S1	2	0.1
S2	0	0.0
S3	0	0.0
W1	1	0.1
W2	3	0.2
1	0	0.0
2	3	0.3
3	1	0.1
4	2	0.2
5	3	0.3
6	1	0.1

* If ratio >1.00, then investigation needed

Wipe Sample Averages (counts per minute) for 6-5
(using gas proportional counting systems)

N2	3	0.2
N3	3	0.2
N4	2	0.1
W1	5	0.4
W2	1	0.1
W3	3	0.2
W4	4	0.3
W5	2	0.1
W6	8	0.6
S1	3	0.2
S2	3	0.2
S3	6	0.4
S4	2	0.1
S5	1	0.1
E1	2	0.1
E2	6	0.4
E3	0	0.0
E4	3	0.2
E5	9	0.7
1	5	0.5
2	4	0.4
3	8	0.8
4	2	0.2
5	4	0.4
6	3	0.3
7	2	0.2
8	3	0.3
9	3	0.3
10	5	0.5
11	4	0.4
12	0	0.0
13	2	0.2
14	2	0.2
15	3	0.3
16	5	0.5
17	1	0.1

* If ratio >1.00, then investigation needed

Exhibit 2

Letter Report Dated October 13, 2004

October 13, 2004

Ms. Cynthia Quast
Howard R. Green Company
PO Box 9009
Cedar Rapids, IA 52409-9009

Dear Ms. Quast,

The soil boring samples collected at the former Chamberlain Manufacturing Facility were screened using a lead shielded 3 inch sodium-iodide detector system. The results indicate that all samples are within the range of the established background. This supports our original hypothesis that based on the historical records we reviewed; there would be no depleted-uranium contamination present in the soil boring samples. Based on the screening results, we do not believe that a further radiological analysis is necessary or required.

We are requesting payment for the screening the samples. We would appreciate receiving payment in the amount of \$700.00 made out to Stephen A. Simpson and \$700.00 made out to Ken Kerns.

If you have any questions please feel free to contact either of us.

Sincerely,

Ken Kerns
920 Idaho Avenue
Ames, IA 50014
(515) 451-0400 (cell)
(515) 294-0746 (office)

Stephen Simpson
1310 Iowa Circle
Ames, IA 50014
(515) 451-1710 (cell)
(515) 294-7675 (office)

APPENDIX D

Geophysical Investigation Report



ARM Group Inc.

Earth Resource Engineers and Consultants

September 7, 2004

Ms. Cindy Quast
Howard R Green Company
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Re: Geophysical Investigation Report
Waterloo, Iowa
ARM Project 04260

Dear Ms Quast:

ARM Group Inc. (ARM) is pleased to present this report to Howard R. Green (HRG) documenting the results of the subsurface geophysical investigation performed at the Vose Industrial Services facility located in Waterloo, Iowa. The purpose of the investigation was to locate and delineate possible buried drums. An ARM geophysicist was on-site during the week of August 16, 2004 to conduct the geophysical survey.

BACKGROUND

The former Chamberlain Manufacturing facility is located at 550 Esther Street in Waterloo, Iowa. Historically, the site was used as a manufacturing facility of projectiles. Currently the site is owned by Vose Industrial Services.

ARM performed the geophysical survey in the subject area outlined by HRG personnel to locate and delineate potential buried drums of cyanide. The survey area is approximately 150 x 300 feet. Previously gathered information indicated the possible presence of buried drums in the survey area.

FIELD EFFORT

ARM performed a two- phased geophysical survey to help HRG identify and map potential buried drums at the site. In the first phase, an electromagnetic (EM) survey was conducted using an EM-61 MKII metal detector manufactured by Geonics Limited. The EM survey was performed over the investigation area along traverses spaced 5 feet apart and oriented approximately east to west. At the conclusion of the EM survey, the endpoints of the survey traverses were located using a global positioning system (GPS). Coordinates were recorded in NAD83 Iowa North in US Survey Feet. The positions of the EM-61 data were then corrected using the GPS coordinates.

In the second phase, a ground-penetrating radar (GPR) survey was performed over areas showing EM anomalies. GPR data was collected in multiple orientations across the feature. GPR screening was conducted using a Model SIR-3000 GPR unit manufactured by Geophysical Survey Systems Inc. with a 400-megahertz antenna.

RESULTS

Figure 1 presents the EM-61 metal detection results. The EM survey indicated several EM anomalies that represent high metallic content in the subsurface. These anomalies are shown on Figure 1 and are located at coordinates listed in the table below.

Anomaly	Northing	Easting
1	3656102	5236474
2	3656092	5236470
3	3656083	5236465
4	3656082	5236474
5	3656088	5236488
6	3656098	5236492
7	3656092	5236511
8	3656070	5236527
9	3656079	5236533
10	3656088	5236538
11	3656108	5236548
12	3656092	5236572

Anomalies 1 through 6 appear to be small, separate anomalies in the EM dataset. These anomalies have dimensions of approximately 5 feet by 3 feet with the exception of Anomaly 5 which appears to be elongated to have the dimensions of 10 feet by 5 feet. Anomalies 8 through 11 indicate a linear feature trending northeast with dimensions of approximately 58 feet by 7 feet. Anomaly 7 is a separate elongated anomaly located approximately half way between the two groupings of anomalies. It is approximately 6 feet by 5 feet. Anomaly 12 indicates a circular feature at the edge of the survey grid approximately 5 to 8 feet in diameter. The complete dimension of the anomaly is not known because part of it lies outside of the survey grid.

Five of the anomalies were caused by surface features. They are listed in the table below with the coordinates and the surface feature causing the anomaly.

Anomaly	Northing	Easting	Feature
A	3656138	5232301	Guard shack
B	3656097	5236385	Metal fence post
C	3656018	5236383	Fence
D	3656007	5236510	Metal stairs w/ bollard
E	3656151	5236549	Bollards and sheet metal



Anomaly E is an underground pump system covered by a 3 feet by 3 feet piece of sheet metal surrounded by bollards. The pumping system had a 12-inch diameter pipe connected and had a southerly orientation.

The GPR survey was performed in areas where EM-61 anomalies were identified during the first phase. The GPR traverses were oriented north-south and east-west and spaced five feet apart. Figure 2 provides the locations of the selected GPR traverses that have been included with this report. All of the GPR files will be archived at the ARM office. These GPR traverses were selected for interpretation because of their location relative to the EM-61 anomalies present. The selected GPR traverses have been included on Figures 3, 4, and 5. Each selected GPR profile includes the anomaly location and location.

Figure 3 shows three GPR profiles traversing over anomalies 8, 9, and 10. Profile GPR 235N shows a strong reflection in the center of the profile at the location of Anomaly 8. Profile GPR 240S shows a strong reflection in the center of the profile at the location of Anomaly 9. Profile GPR 245N shows two reflections next to each other. Anomaly 10 is hyperbolic reflection just North of the larger reflection of Anomaly 9. Each of these anomalies, as shown on Figure 3, has a broad profile much like a large UST or pipe. There are smaller, multiple anomalies located around Anomalies 8 through 10 which may represent metal debris or possibly buried drums. Anomalies 8 through 10 may also represent the presence of buried drums. The top surfaces of anomalies 8 through 10 are located within the first 3 feet of the ground surface. These GPR profiles confirm the presence of the unknown anomalies in these locations.

Figure 4 shows three GPR profiles traversing over anomalies 8, 9, and 10. Profile GPR 250S shows Anomaly 10 North of the center of the profile (indicated by the thick flat white lines). Profile GPR 255N shows the location of Anomaly 10. GPR 65W shows Anomalies 8 and 9. Anomaly 9 is the small hyperbolic reflection in the center of the profile and Anomaly 8 are the reflections West of Anomaly 9. As previously shown on Figure 3, Anomalies 8 through 10 are large singular looking anomalies with multiple smaller anomalies located around the main anomalies.

Figure 5 shows GPR profiles traversing over anomalies 1, 4, 5, 6, 7 and 10. Profile GPR 75W shows the location of Anomaly 10 indicated by the white hyperbolic reflection East of the center of the profile. Profile GPR 85W shows a profile traversing over Anomalies 7 and 10. Anomaly 10 is located in the center of the profile (white hyperbolic reflections). Anomaly 7 (weaker hyperbolic reflections) is located West of Anomaly 10. Profiles GPR 185N and GPR 200S were collected in the central portion of the survey area. Profile GPR 185N shows Anomalies 1 and 4. Anomaly 1 is located in the center of the profile while Anomaly 4 is at the southern edge of the profile. Profile GPR 200S shows Anomalies 5 and 6. The anomalies detected in the central portion of the property, Anomalies 1 through 6, are not as distinct. These anomalies are located deeper in the subsurface and do not have as intense reflection as do Anomalies 8 through 10. This is an indication of lesser metallic content or poorer metallic properties.



SURVEY LIMITATIONS

The investigation work scope included standard and/or routinely accepted practices of the geophysical industry. ARM utilized multiple methods in order to locate and delineate potential buried drums at the subject site. The multi-phased investigation was performed to reduce the risk of missing a subsurface feature due to the depth it is buried, the soil type and conditions, the materials, and other site-specific conditions that may interfere with the effectiveness of the geophysical equipment and mask the existence of an underground storage tank. Some site conditions can interfere with the effectiveness of the geophysical equipment. Concrete with metal reinforcement will impede the EM-61 and GPR effectiveness. In addition high-energy overhead power lines will interfere with the effectiveness of the metal detector.

However, by its nature, no subsurface survey can completely define subsurface conditions without further interpretation of the data by experienced geophysicists. Thus, ARM conducted this survey in accordance with industry standards and cannot accept responsibility for inherent technique limitations, survey limitations or unforeseen site-specific conditions.

SUMMARY

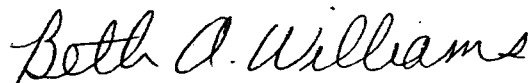
The geophysical survey identified twelve targets which are consistent with buried metal debris. These features are shown on Figure 1.

If you have any questions or need additional information, please do not hesitate to call the undersigned at 717-533-8600.

Respectfully submitted,
ARM Group, Inc.



Alexander Mussio
Staff Geophysicist

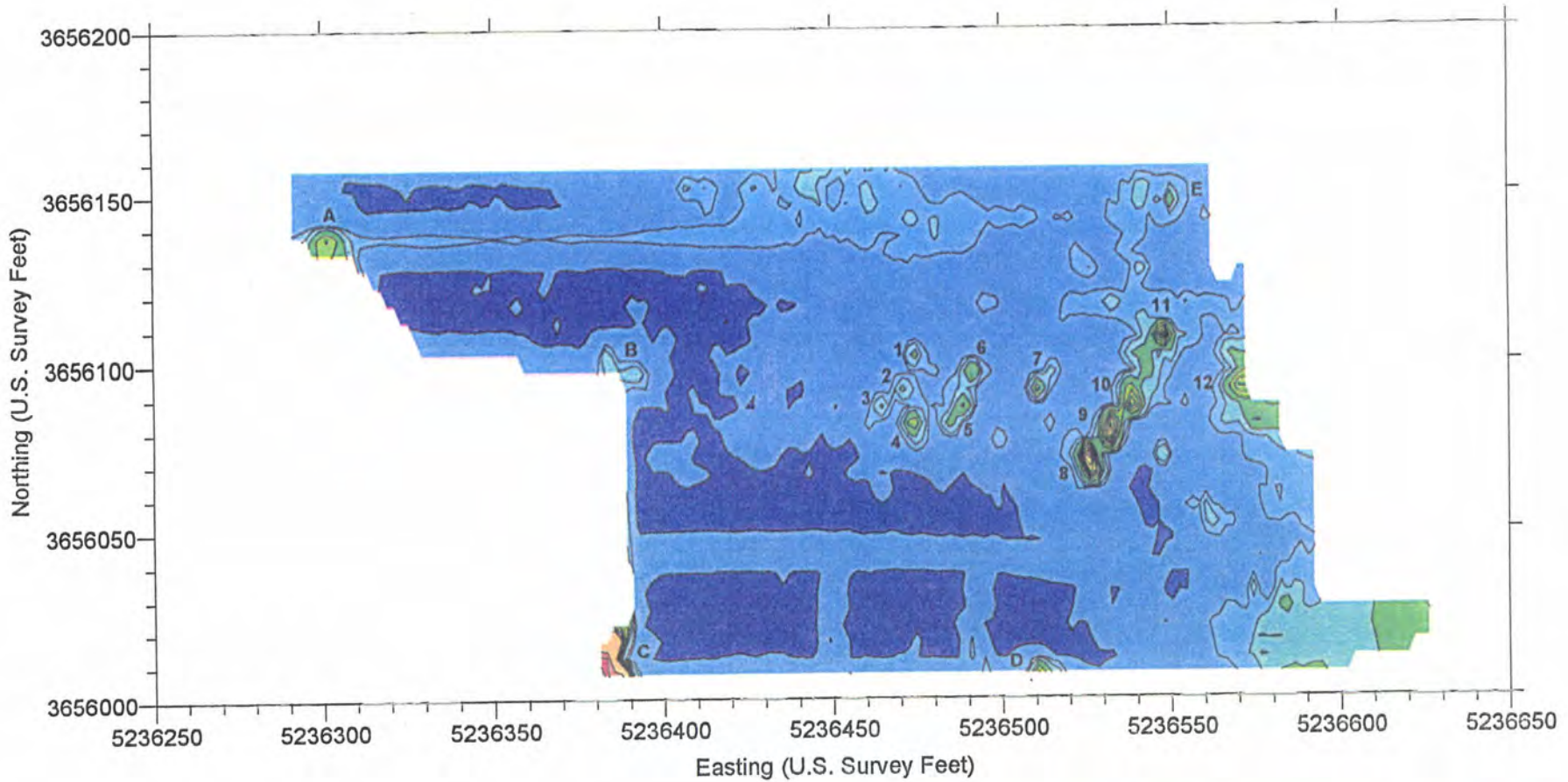


Beth A. Williams, P.G.
Senior Geophysicist

Attachments



FIGURE 1
EM-61 METAL DETECTOR DATA
VOSE INDUSTRIAL SERVICES
WATERLOO, IOWA
HOWARD R GREEN COMPANY



7 Anomaly Location with Identifier

Coordinates are presented in NAD83 Iowa North (U.S. Survey Feet)

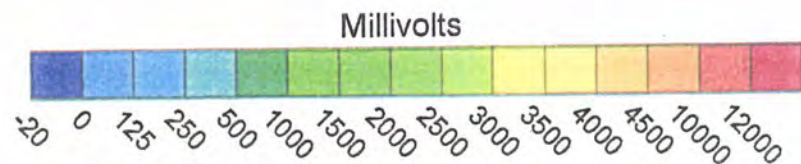
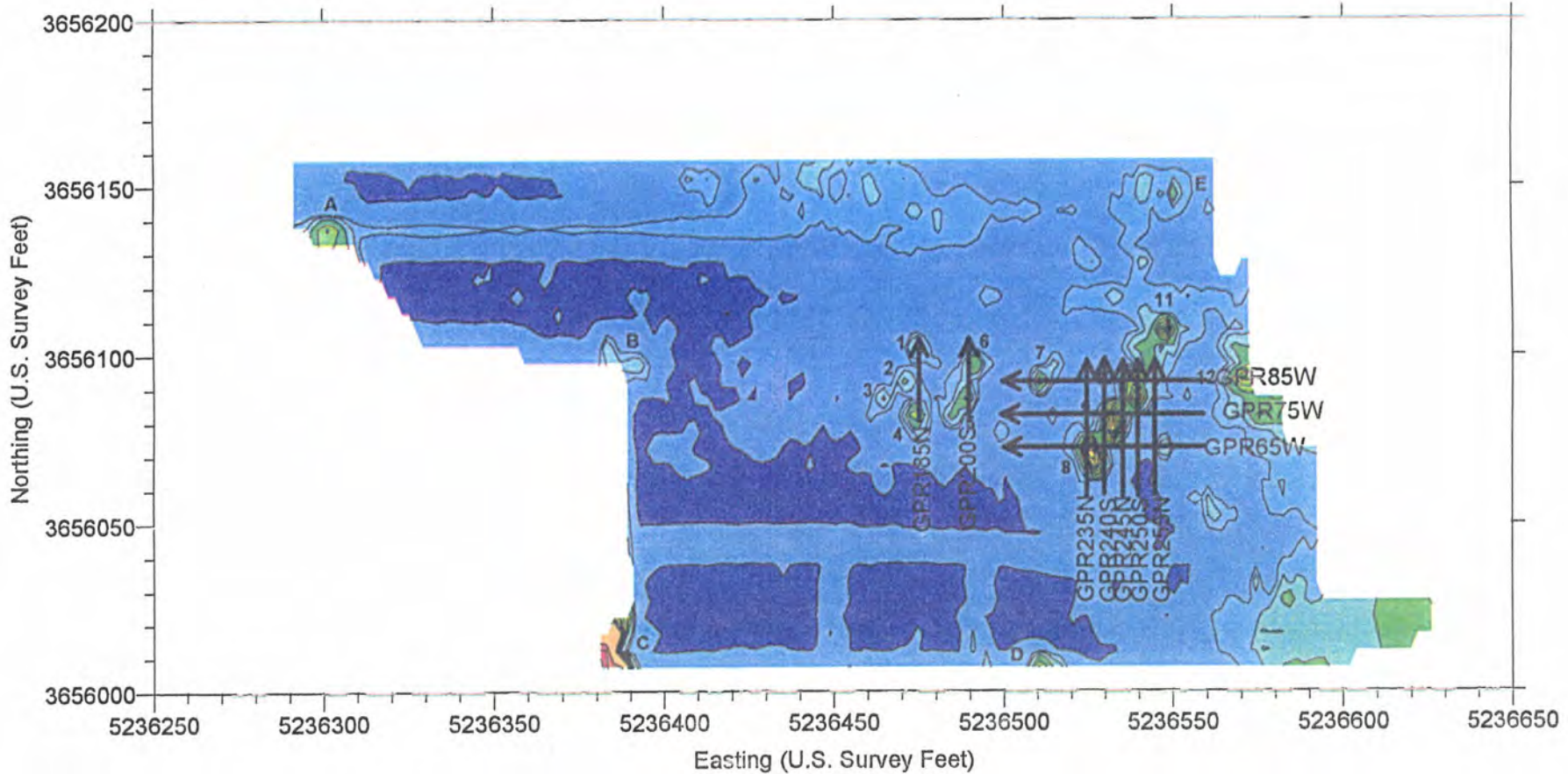
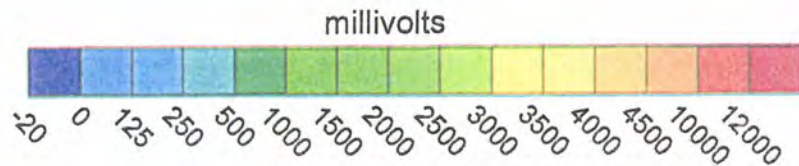


FIGURE 2
LOCATIONS OF SELECTED GPR TRAVERSES
VOSE INDUSTRIAL SERVICES
WATERLOO, IOWA
HOWARD R GREEN COMPANY



← GPR85W Location of Selected GPR Traverses with Identifier



Coordinates are presented in NAD83 Iowa North (U.S. Survey Feet)

**FIGURE 3
SELECTED GPR TRAVERSES
VOSE INDUSTRIAL SERVICES
WATERLOO, IOWA
HOWARD R GREEN COMPANY**

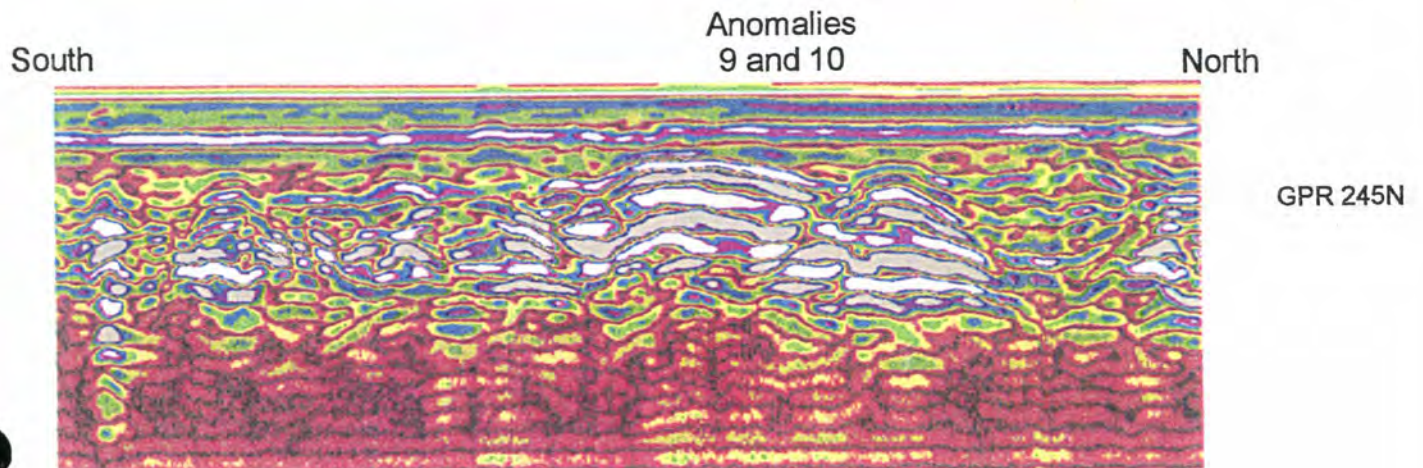
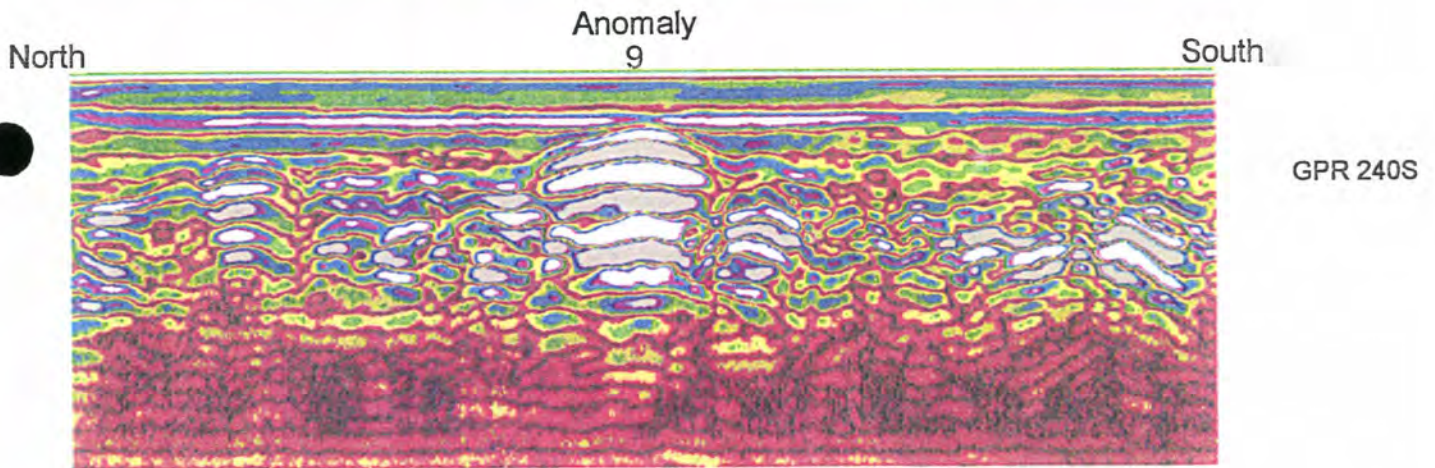
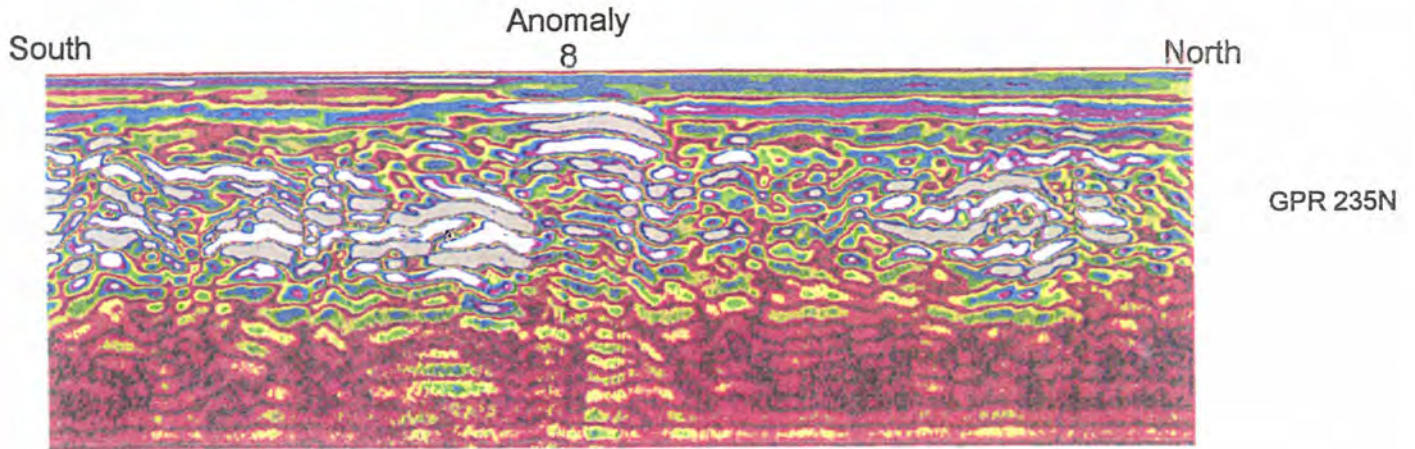


FIGURE 4
SELECTED GPR TRAVERSES
VOSE INDUSTRIAL SERVICES
WATERLOO, IOWA
HOWARD R GREEN COMPANY

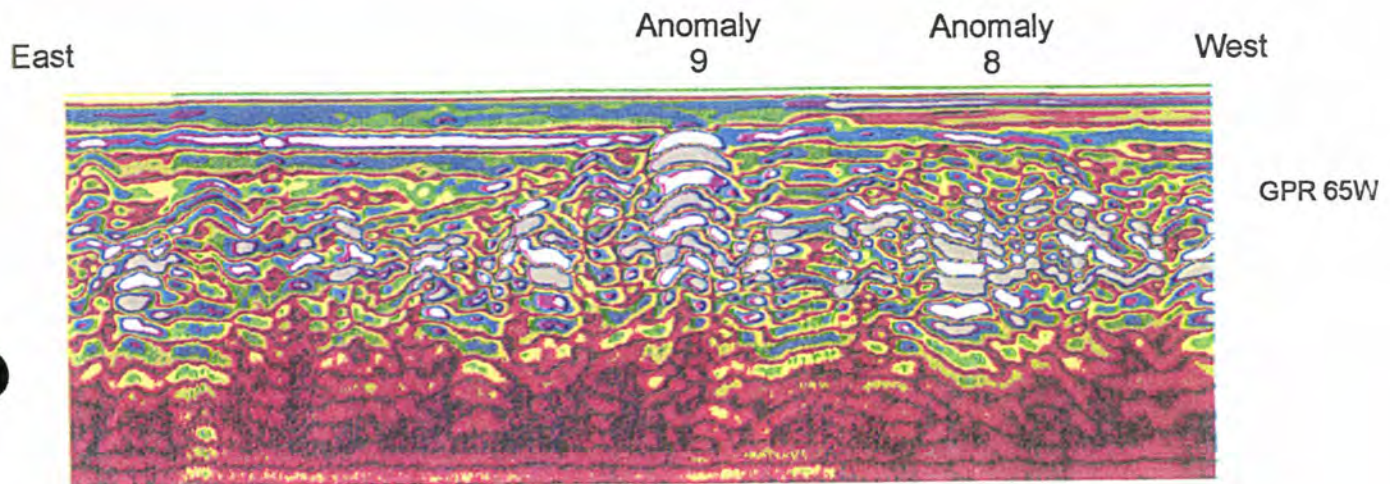
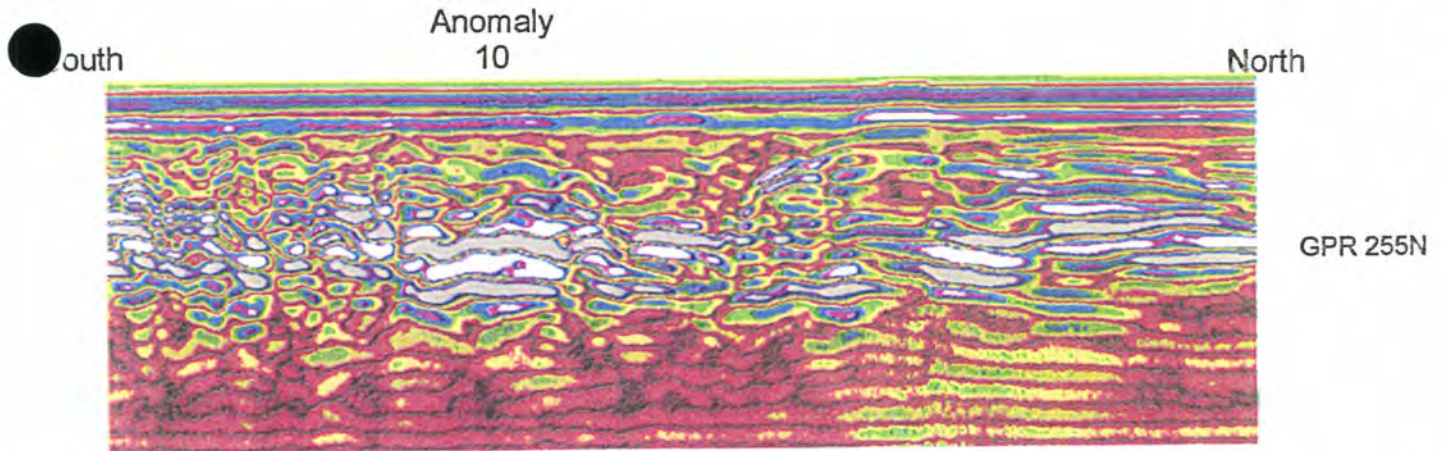
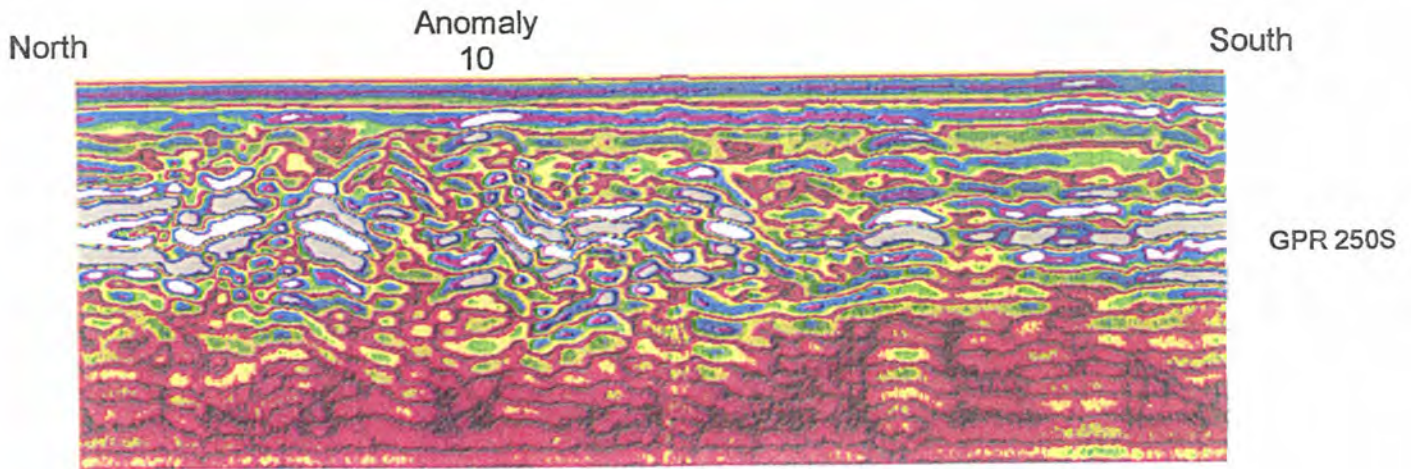
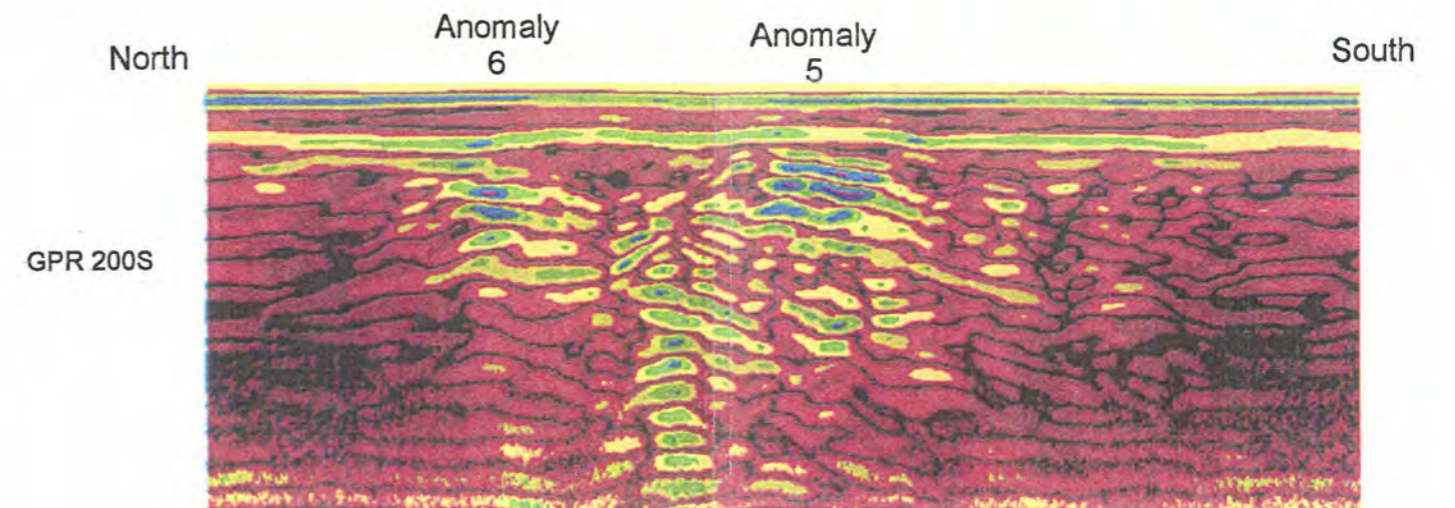
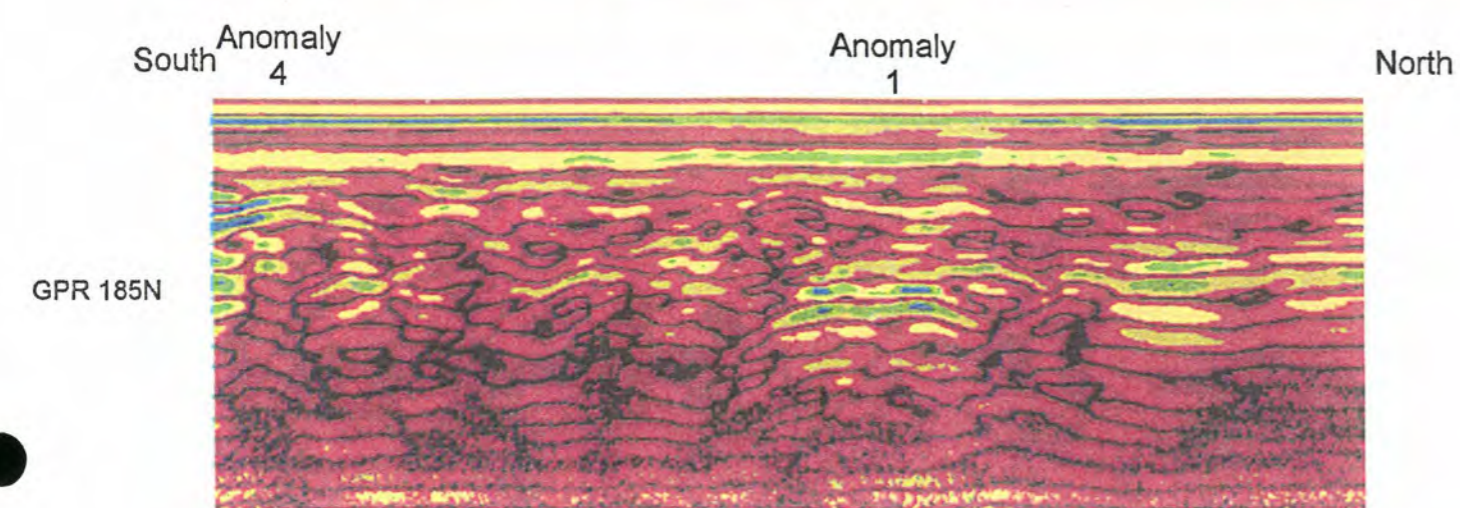
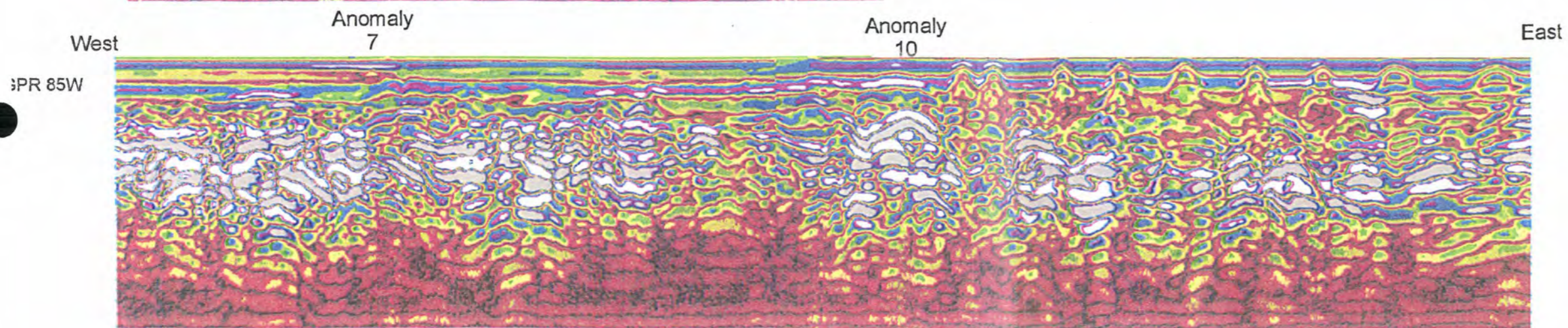
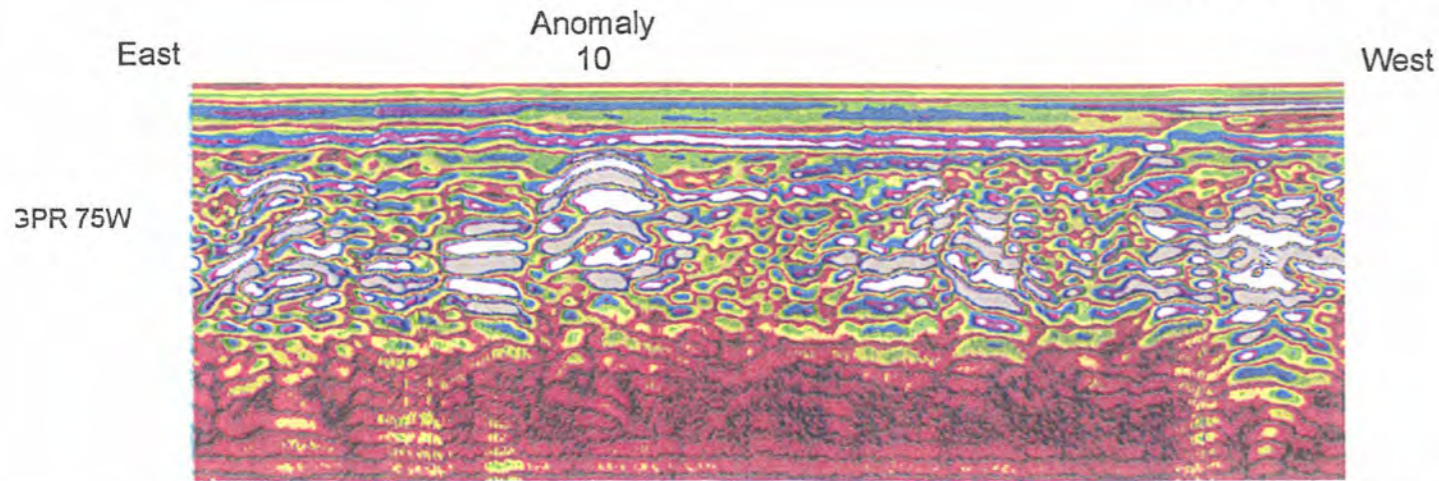


FIGURE 5
SELECTED GPR TRAVERSES
VOSE INDUSTRIAL SERVICES
WATERLOO, IOWA
HOWARD R GREEN COMPANY



APPENDIX E

Laboratory Reports Chain of Custody Documentation

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job: 04.12062

Project Number: 722930J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
821348	SB-51 2'	09/01/2004	09/01/2004
821349	SB-52 2'	09/01/2004	09/01/2004
821350	SB-53 2'	09/01/2004	09/01/2004
821351	SB-59 2'	09/01/2004	09/01/2004
821352	SB-58 2'	09/01/2004	09/01/2004
821353	SB-55 2'	09/01/2004	09/01/2004
821354	SB-61 2'	09/01/2004	09/01/2004
821355	SB-57 2'	09/01/2004	09/01/2004
821356	SB-66 2'	09/01/2004	09/01/2004
821357	SB-68 2'	09/01/2004	09/01/2004
821358	TB-3	09/01/2004	09/01/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert
Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.



ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821348	SB-51 2'					09/01/2004 09:45				
Solids, Total	90.96		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	3.80		mg/kg dw	0.23	1.1	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	9.8	B	mg/kg dw	0.00051	0.0057	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.063		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.066		g			09/03/2004	tdo	1502		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	2,420	MSO, *	mg/kg dw	0.214	0.55	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	132		mg/kg dw	0.26	0.92	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	67	MSO	mg/kg dw	0.43	1.1	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	121		mg/kg dw	5.5	5.5	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<66		mg/kg dw	8.2	8.2	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<5.1		mg/kg dw	0.63	1.1	09/07/2004	llw	1502	628	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/03/2004	acm	106		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.35		mg/kg dw	0.35	1.04	09/07/2004	ake	106	168	SW 8270C
Acenaphthylene	<0.33		mg/kg dw	0.33	0.973	09/07/2004	ake	106	168	SW 8270C
Anthracene	<0.22		mg/kg dw	0.22	0.643	09/07/2004	ake	106	168	SW 8270C
Benzidine	<0.54		mg/kg dw	0.54	1.62	09/07/2004	ake	106	168	SW 8270C
Benzo(a)anthracene	<0.20		mg/kg dw	0.20	0.577	09/07/2004	ake	106	168	SW 8270C
Benzo(b)fluoranthene	<0.20		mg/kg dw	0.20	0.610	09/07/2004	ake	106	168	SW 8270C
Benzo(k)fluoranthene	<0.26		mg/kg dw	0.26	0.808	09/07/2004	ake	106	168	SW 8270C
Benzo(a)pyrene	<0.26		mg/kg dw	0.26	0.808	09/07/2004	ake	106	168	SW 8270C
Benzo(ghi)perylene	<0.22		mg/kg dw	0.22	0.643	09/07/2004	ake	106	168	SW 8270C
Benzyl alcohol	<0.44		mg/kg dw	0.44	1.34	09/07/2004	ake	106	168	SW 8270C
Benzyl butyl phthalate	<0.24		mg/kg dw	0.24	0.709	09/07/2004	ake	106	168	SW 8270C
Bis(2-chloroethyl)ether	<0.43		mg/kg dw	0.43	1.29	09/07/2004	ake	106	168	SW 8270C

* - Sample concentration is greater than four times the spike concentration

B - This analyte was detected in the method blank.

IE - Elevated Reporting Limit due to interelement interference.

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821348	SB-51 2'								09/01/2004 09:45	
Bis(2-chloroethoxy)methane	<0.41		mg/kg dw	0.41	1.22	09/07/2004	ake	106	168	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.18		mg/kg dw	0.18	0.53	09/07/2004	ake	106	168	SW 8270C
Bis(2chloroisopropyl)ether	<0.47		mg/kg dw	0.47	1.42	09/07/2004	ake	106	168	SW 8270C
4-Bromophenyl phenyl ether	<0.26		mg/kg dw	0.26	0.792	09/07/2004	ake	106	168	SW 8270C
Carbazole	<0.22		mg/kg dw	0.22	0.643	09/07/2004	ake	106	168	SW 8270C
4-Chloroaniline	<0.572		mg/kg dw	0.572	1.72	09/07/2004	ake	106	168	SW 8270C
2-Chloronaphthalene	<0.38		mg/kg dw	0.38	1.1	09/07/2004	ake	106	168	SW 8270C
4-Chlorophenylphenyl ether	<0.31		mg/kg dw	0.31	0.907	09/07/2004	ake	106	168	SW 8270C
Chrysene	0.2		mg/kg dw	0.16	0.49	09/07/2004	ake	106	168	SW 8270C
Dibenzo (a, h) anthracene	<0.42		mg/kg dw	0.42	1.28	09/07/2004	ake	106	168	SW 8270C
Dibenzofuran	<0.26		mg/kg dw	0.26	0.775	09/07/2004	ake	106	168	SW 8270C
Di-n-butylphthalate	<0.24		mg/kg dw	0.24	0.709	09/07/2004	ake	106	168	SW 8270C
1,2-Dichlorobenzene	<0.566		mg/kg dw	0.566	1.69	09/07/2004	ake	106	168	SW 8270C
1,3-Dichlorobenzene	<0.51		mg/kg dw	0.51	1.52	09/07/2004	ake	106	168	SW 8270C
1,4-Dichlorobenzene	<0.46		mg/kg dw	0.46	1.41	09/07/2004	ake	106	168	SW 8270C
3,3-Dichlorobenzidine	<0.588		mg/kg dw	0.588	1.76	09/07/2004	ake	106	168	SW 8270C
Diethyl phthalate	<0.26		mg/kg dw	0.26	0.775	09/07/2004	ake	106	168	SW 8270C
Dimethyl phthalate	<0.23		mg/kg dw	0.23	0.693	09/07/2004	ake	106	168	SW 8270C
2,4-Dinitrotoluene	<0.26		mg/kg dw	0.26	0.775	09/07/2004	ake	106	168	SW 8270C
2,6-Dinitrotoluene	<0.36		mg/kg dw	0.36	1.09	09/07/2004	ake	106	168	SW 8270C
Di-n-octylphthalate	<0.33		mg/kg dw	0.33	0.99	09/07/2004	ake	106	168	SW 8270C
Fluoranthene	0.3		mg/kg dw	0.20	0.594	09/07/2004	ake	106	168	SW 8270C
Fluorene	<0.29		mg/kg dw	0.29	0.874	09/07/2004	ake	106	168	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.48	09/07/2004	ake	106	168	SW 8270C
Hexachlorocyclopentadiene	<0.32		mg/kg dw	0.32	0.956	09/07/2004	ake	106	168	SW 8270C
Hexachloro-1,3-butadiene	<0.37		mg/kg dw	0.37	1.10	09/07/2004	ake	106	168	SW 8270C

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821348	SB-51 2'					09/01/2004 09:45				
Hexachloroethane	<0.45		mg/kg dw	0.45	1.35	09/07/2004	ake	106	168	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.18		mg/kg dw	0.18	0.51	09/07/2004	ake	106	168	SW 8270C
Isophorone	<0.33		mg/kg dw	0.33	0.973	09/07/2004	ake	106	168	SW 8270C
2-Methylnaphthalene	<0.35		mg/kg dw	0.35	1.06	09/07/2004	ake	106	168	SW 8270C
Naphthalene	<0.40		mg/kg dw	0.40	1.21	09/07/2004	ake	106	168	SW 8270C
2-Nitroaniline	<0.38		mg/kg dw	0.38	1.1	09/07/2004	ake	106	168	SW 8270C
3-Nitroaniline	<0.33		mg/kg dw	0.33	0.973	09/07/2004	ake	106	168	SW 8270C
4-Nitroaniline	<0.37		mg/kg dw	0.37	1.14	09/07/2004	ake	106	168	SW 8270C
Nitrobenzene	<0.42		mg/kg dw	0.42	1.25	09/07/2004	ake	106	168	SW 8270C
N-Nitrosodimethylamine	<0.610		mg/kg dw	0.610	1.82	09/07/2004	ake	106	168	SW 8270C
N-Nitrosodiphenylamine	<0.19		mg/kg dw	0.19	0.561	09/07/2004	ake	106	168	SW 8270C
N-Nitrosodi-n-propylamine	<0.46		mg/kg dw	0.46	1.36	09/07/2004	ake	106	168	SW 8270C
phenanthrene	<0.21		mg/kg dw	0.21	0.627	09/07/2004	ake	106	168	SW 8270C
Pyrene	0.29		mg/kg dw	0.27	0.82	09/07/2004	ake	106	168	SW 8270C
Pyridine	<0.616		mg/kg dw	0.616	1.85	09/07/2004	ake	106	168	SW 8270C
1,2,4-Trichlorobenzene	<0.40		mg/kg dw	0.40	1.21	09/07/2004	ake	106	168	SW 8270C
Nitrobenzene-d5 (surr)	68	OOO	%			09/07/2004	ake	106	168	SW 8270C
2-Fluorobiphenyl (surr)	64		%			09/07/2004	ake	106	168	SW 8270C
Terphenyl-d14 (surr)	65		%			09/07/2004	ake	106	168	SW 8270C
Benzoic Acid	<1.8		mg/kg dw	1.8	5.5	09/07/2004	ake	106	168	SW 8270C
4-Chloro-3-methylphenol	<0.40		mg/kg dw	0.40	1.19	09/07/2004	ake	106	168	SW 8270C
2-chlorophenol	<0.47		mg/kg dw	0.47	1.42	09/07/2004	ake	106	168	SW 8270C
2-Methylphenol	<0.43		mg/kg dw	0.43	1.29	09/07/2004	ake	106	168	SW 8270C
4-Methylphenol	<0.44		mg/kg dw	0.44	1.3	09/07/2004	ake	106	168	SW 8270C
Cresols, Total	<0.869		mg/kg dw	0.869	2.61	09/07/2004	ake	106	168	SW 8270C
2,4-Dichlorophenol	<0.41		mg/kg dw	0.41	1.22	09/07/2004	ake	106	168	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

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Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821348	SB-51 2'					09/01/2004 09:45				
2,4-Dimethylphenol	<0.35		mg/kg dw	0.35	1.04	09/07/2004	ake	106	168	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.46	09/07/2004	ake	106	168	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.577		mg/kg dw	0.577	1.74	09/07/2004	ake	106	168	SW 8270C
2-Nitrophenol	<0.616		mg/kg dw	0.616	1.85	09/07/2004	ake	106	168	SW 8270C
4-Nitrophenol	<0.36		mg/kg dw	0.36	1.09	09/07/2004	ake	106	168	SW 8270C
Pentachlorophenol	<0.42	L	mg/kg dw	0.42	1.28	09/07/2004	ake	106	168	SW 8270C
Phenol	<0.42		mg/kg dw	0.42	1.28	09/07/2004	ake	106	168	SW 8270C
2,4,5-Trichlorophenol	<0.37		mg/kg dw	0.37	1.14	09/07/2004	ake	106	168	SW 8270C
2,4,6-Trichlorophenol	<0.30		mg/kg dw	0.30	0.891	09/07/2004	ake	106	168	SW 8270C
Phenol-d6 (surr)	75		%			09/07/2004	ake	106	168	SW 8270C
2-Fluorophenol (surr)	63		%			09/07/2004	ake	106	168	SW 8270C
Tribromophenol (surr)	73		%			09/07/2004	ake	106	168	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821349	SB-52 2'					09/01/2004 10:10				
5035 VOC Preservation	Complete					09/01/2004	rlb		7	SW 846 - 5035
Solids, Total	98.99		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	1.84		mg/kg dw	0.21	1.0	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	0.222	B	mg/kg dw	0.00046	0.0053	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.030		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.027		g			09/03/2004	tdo	1502		SW 3050 B

B - This analyte was detected in the method blank.
 L - LCS recovery is outside of control limits.

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821349	SB-52 2'								09/01/2004 10:10	
ICP Metals-Solid mdl										
Barium, (ICP) mdl	62		mg/kg dw	0.197	0.51	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	11		mg/kg dw	0.24	0.85	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	5.6		mg/kg dw	0.39	1.0	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	48		mg/kg dw	5.1	5.1	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<7.6		mg/kg dw	7.6	7.6	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<0.58		mg/kg dw	0.58	1.0	09/07/2004	llw	1502	628	SW 6010B
VOA 8260 NON-AQUEOUS LRL										
Acetone	16.4		ug/kg dw	8.1	24	09/09/2004	mmk		1028	SW 8260B
Benzene	0.92		ug/kg dw	0.56	1.67	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.71		ug/kg dw	0.71	2.12	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.96		ug/kg dw	0.96	2.88	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.27		ug/kg dw	2.27	6.82	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.38		ug/kg dw	3.38	10.1	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<4.95		ug/kg dw	4.95	14.6	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.86		ug/kg dw	0.86	2.02	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.1		ug/kg dw	0.47	5.1	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.1		ug/kg dw	1.46	5.1	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.1		ug/kg dw	0.5	5.1	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.1		ug/kg dw	6.1	18.2	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.429		ug/kg dw	0.429	1.288	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.41		ug/kg dw	1.41	4.24	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.71		ug/kg dw	0.71	2.12	09/09/2004	mmk		1028	SW 8260B
Chloroform	1.57		ug/kg dw	0.86	2.58	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.66		ug/kg dw	0.66	1.97	09/09/2004	mmk		1028	SW 8260B

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821349	SB-52 2'					09/01/2004 10:10				
4-Chlorotoluene	<0.56		ug/kg dw	0.56	1.67	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	30	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<2.98		ug/kg dw	2.98	8.94	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.76		ug/kg dw	0.76	2.27	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.3	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.3	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.66		ug/kg dw	0.66	1.97	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<0.96		ug/kg dw	0.96	2.88	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.81		ug/kg dw	0.81	2.4	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.3	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.338		ug/kg dw	0.338	1.01	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	1.37		ug/kg dw	0.96	2.88	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.76		ug/kg dw	0.76	2.27	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.43		ug/kg dw	0.43	1.30	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.86		ug/kg dw	0.86	2.58	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.36		ug/kg dw	0.36	1.09	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.86		ug/kg dw	0.86	2.58	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.81		ug/kg dw	0.81	2.42	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.76		ug/kg dw	0.76	2.27	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	<0.56		ug/kg dw	0.56	1.67	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<2.93		ug/kg dw	2.93	8.79	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.56		ug/kg dw	0.56	2.02	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.36		ug/kg dw	0.36	1.09	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<51		ug/kg dw	7.1	51	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.71		ug/kg dw	0.71	2.02	09/09/2004	mmk		1028	SW 8260B

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SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821349	SB-52 2'								09/01/2004 10:10	
MTBE	<4.80		ug/kg dw	4.80	14.3	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.1		ug/kg dw	0.81	5.1	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.1		ug/kg dw	0.56	5.1	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.38		ug/kg dw	0.38	1.15	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.82		ug/kg dw	1.82	5.46	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.3	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	1.15		ug/kg dw	0.66	1.97	09/11/2004	mmk		1033	SW 8260B
Toluene	5.34		ug/kg dw	0.71	2.12	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.1		ug/kg dw	1.6	5.1	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.1		ug/kg dw	0.32	5.1	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	18.8		ug/kg dw	1.06	3.18	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.6	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	288		ug/kg dw	0.96	2.88	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	0.64		ug/kg dw	0.44	1.35	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.91		ug/kg dw	0.91	2.7	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.1		ug/kg dw	1.4	5.1	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.1		ug/kg dw	2.3	5.1	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.76		ug/kg dw	0.76	2.27	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.1		ug/kg dw	1.6	5.1	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	94.6		%			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	97.4		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	94.8		%			09/09/2004	mmk		1028	SW 8260B

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821350	SB-53 2'					09/01/2004 10:45				
5035 VOC Preservation Solids, Total	Complete					09/01/2004	rlb		7	SW 846 - 5035
Arsenic, (GFAA) mdl	96.95		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Mercury, mdl	1.00		mg/kg dw	0.22	1.0	09/07/2004	mrcm	909		SW 7060A
GFAA Metals Digestion	0.00691	B	mg/kg dw	0.00047	0.0054	09/03/2004	heh		2061	SW 7471A
ICP Metals Prep (Solid)	1.136		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals-Solid mdl	1.061		g			09/03/2004	tdo	1502		SW 3050 B
Barium, (ICP) mdl	29		mg/kg dw	0.201	0.52	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	0.31		mg/kg dw	0.25	0.87	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	4.1		mg/kg dw	0.40	1.0	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/07/2004	llw	1502	628	SW 6010B
VOA 8260 NON-AQUEOUS LRL										
Acetone	21.9		ug/kg dw	8.3	25	09/09/2004	mmk		1028	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.70	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.94	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.32		ug/kg dw	2.32	6.96	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.46		ug/kg dw	3.46	10.3	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.05		ug/kg dw	5.05	15.0	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.06	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.48	5.2	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/09/2004	mmk		1028	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821350	SB-53 2'					09/01/2004 10:45				
Chlorobenzene	<0.438		ug/kg dw	0.438	1.315	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.44		ug/kg dw	1.44	4.33	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.63	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.01	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.70	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.04		ug/kg dw	3.04	9.13	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.77		ug/kg dw	0.77	2.32	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.01	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.94	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.346		ug/kg dw	0.346	1.03	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.94	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.32	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	1.58		ug/kg dw	0.44	1.33	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.63	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.11	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.63	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.32	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.70	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821350	SB-53 2'					09/01/2004 10:45				
Hexachlorobutadiene	<2.99		ug/kg dw	2.99	8.97	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.06	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.11	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.06	09/09/2004	mmk		1028	SW 8260B
MTBE	<4.90		ug/kg dw	4.90	14.6	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.57	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	<0.67		ug/kg dw	0.67	2.01	09/09/2004	mmk		1028	SW 8260B
Toluene	0.84		ug/kg dw	0.72	2.17	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	<1.08		ug/kg dw	1.08	3.25	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	12.8		ug/kg dw	0.98	2.94	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	0.73		ug/kg dw	0.45	1.38	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.4	5.2	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.77		ug/kg dw	0.77	2.32	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	98		%			09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821350	SB-53 2'								09/01/2004 10:45	

Dibromofluoromethane (surr)	96		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	91		%			09/09/2004	mmk		1028	SW 8260B

SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821351	SB-59 2'								09/01/2004 11:20	

Solids, Total	93.10		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	1.49		mg/kg dw	0.23	1.1	09/07/2004	mrm	909	629	SW 7060A
Mercury, mdl	0.116	B	mg/kg dw	0.00049	0.0056	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.025		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.035		g			09/03/2004	tdo	1502		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	41		mg/kg dw	0.209	0.54	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	42		mg/kg dw	0.26	0.90	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	19		mg/kg dw	0.42	1.1	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	34		mg/kg dw	5.4	5.4	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<8.1		mg/kg dw	8.1	8.1	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<0.61		mg/kg dw	0.61	1.1	09/07/2004	llw	1502	628	SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821352	SB-58 2'					09/01/2004 11:45				
5035 VOC Preservation	Complete					09/01/2004	rlb		7	SW 846 - 5035
Solids, Total	93.95		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	1.85		mg/kg dw	0.22	1.1	09/07/2004	mrm	909	629	SW 7060A
Mercury, mdl	0.01216	B	mg/kg dw	0.00049	0.0055	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.022		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.148		g			09/03/2004	tdo	1502		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	39		mg/kg dw	0.208	0.53	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	0.89		mg/kg dw	0.26	0.89	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	4.3		mg/kg dw	0.42	1.1	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	19		mg/kg dw	5.3	5.3	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<8.0		mg/kg dw	8.0	8.0	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<0.61		mg/kg dw	0.61	1.1	09/07/2004	llw	1502	628	SW 6010B
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	23.3		ug/kg dw	8.5	26	09/09/2004	mmk		1028	SW 8260B
Benzene	0.77		ug/kg dw	0.59	1.76	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.75		ug/kg dw	0.75	2.24	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.39		ug/kg dw	2.39	7.18	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.57		ug/kg dw	3.57	10.6	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.22		ug/kg dw	5.22	15.4	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.90		ug/kg dw	0.90	2.13	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.3		ug/kg dw	0.50	5.3	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.54	5.3	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/09/2004	mmk		1028	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821352	SB-58 2'								09/01/2004 11:45	
Carbon tetrachloride	<6.4		ug/kg dw	6.4	19.2	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.452		ug/kg dw	0.452	1.357	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.49		ug/kg dw	1.49	4.47	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.75		ug/kg dw	0.75	2.24	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.69		ug/kg dw	0.69	2.08	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.59		ug/kg dw	0.59	1.76	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.14		ug/kg dw	3.14	9.42	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.69		ug/kg dw	0.69	2.08	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.85		ug/kg dw	0.85	2.6	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.357		ug/kg dw	0.357	1.06	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.37	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.15	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.85		ug/kg dw	0.85	2.55	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821352	SB-58 2'								09/01/2004 11:45	
Ethylbenzene	<0.59		ug/kg dw	0.59	1.76	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.09		ug/kg dw	3.09	9.26	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.59		ug/kg dw	0.59	2.13	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.15	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<53		ug/kg dw	7.5	53	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.75		ug/kg dw	0.75	2.13	09/09/2004	mmk		1028	SW 8260B
MTBE	<5.06		ug/kg dw	5.06	15.1	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.3		ug/kg dw	0.85	5.3	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.59	5.3	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.21	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.92		ug/kg dw	1.92	5.75	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	2.58		ug/kg dw	0.69	2.08	09/11/2004	mmk		1033	SW 8260B
Toluene	<0.75		ug/kg dw	0.75	2.24	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	1.73		ug/kg dw	1.12	3.35	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	93.6		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	<0.47		ug/kg dw	0.47	1.43	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.96		ug/kg dw	0.96	2.9	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821352	SAMPLE DESCRIPTION SB-58 2'					DATE-TIME TAKEN 09/01/2004 11:45				
4-Bromofluorobenzene (surr)	97.2		%			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	97.2		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	92.7		%			09/09/2004	mmk		1028	SW 8260B
PCB's Non-Aqueous										
PCB-1016	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	81		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	79		%	1	1	09/08/2004	kak	830	1876	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821353	SB-55 2'					09/01/2004 12:45				
Solids, Total	92.47		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
PCB's Non-Aqueous										
PCB-1016	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821353	SB-55 2'					09/01/2004 12:45				
PCB-1221	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.27		mg/kg dw		0.27	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	82		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	81		%	1	1	09/08/2004	kak	830	1876	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821354	SB-61 2'					09/01/2004 14:40				
Solids, Total	90.74		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	6.55		mg/kg dw	0.23	1.1	09/07/2004	mrm	909	629	SW 7060A
Mercury, mdl	0.02078	B	mg/kg dw	0.00051	0.0057	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.012		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.132		g			09/03/2004	tdo	1502		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	51		mg/kg dw	0.215	0.55	09/07/2004	llw	1502	2794	SW 6010B
Cadmium, (ICP) mdl	176		mg/kg dw	0.26	0.93	09/07/2004	llw	1502	2800	SW 6010B
Chromium, (ICP) mdl	7.8		mg/kg dw	0.43	1.1	09/07/2004	llw	1502	2799	SW 6010B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

09/28/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821354	SB-61 2'					09/01/2004 14:40				
Lead, (ICP) mdl	83		mg/kg dw	5.5	5.5	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<24		mg/kg dw	8.3	8.3	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<1.9		mg/kg dw	0.63	1.1	09/07/2004	llw	1502	628	SW 6010B
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
PCB's Non-Aqueous										
PCB-1016	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
PCB-1221	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
PCB-1232	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
PCB-1242	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
PCB-1248	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
PCB-1254	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
CB-1260	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
CB-1268	<0.28		mg/kg dw		0.28	09/09/2004	kak	830	1880	SW 8082
Decachlorobiphenyl (Surr.)	72		%	1	1	09/09/2004	kak	830	1880	SW 8082
Tetrachlorometaxylene (Surr.)	71		%	1	1	09/09/2004	kak	830	1880	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821355	SB-57 2'					09/01/2004 15:00				
Solids, Total	90.57		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G
Arsenic, (GFAA) mdl	2.43		mg/kg dw	0.23	1.1	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	0.00802	B	mg/kg dw	0.00051	0.0057	09/03/2004	heh		2061	SW 7471A

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
821355	SB-57 2'					09/01/2004 15:00					
GFAA Metals Digestion	1.044		g			09/02/2004	tdo	909		SW 3050 B	
ICP Metals Prep (Solid)	1.040		g			09/03/2004	tdo	1502		SW 3050 B	
ICP Metals-Solid mdl		IE									
Barium, (ICP) mdl	35		mg/kg dw	0.215	0.55	09/07/2004	llw	1502	2794	SW 6010B	
Cadmium, (ICP) mdl	<0.53		mg/kg dw	0.26	0.93	09/07/2004	llw	1502	2800	SW 6010B	
Chromium, (ICP) mdl	9.7		mg/kg dw	0.43	1.1	09/07/2004	llw	1502	2799	SW 6010B	
Lead, (ICP) mdl	91		mg/kg dw	5.5	5.5	09/07/2004	llw	1502	2816	SW 6010B	
Selenium, (ICP) mdl	<17		mg/kg dw	8.3	8.3	09/07/2004	llw	1502	2793	SW 6010B	
Silver, (ICP) mdl	<1.2		mg/kg dw	0.63	1.1	09/07/2004	llw	1502	628	SW 6010B	

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
821356	SB-66 2'					09/01/2004 15:45					
5035 VOC Preservation	Complete					09/01/2004	rlb		7	SW 846 - 5035	
Solids, Total	95.32		%	0.01	0.01	09/02/2004	sas		2743	SM 2540 G	
Arsenic, (GFAA) mdl	0.876		mg/kg dw	0.22	1.0	09/07/2004	mrn	909	629	SW 7060A	
Mercury, mdl	0.00384	B	mg/kg dw	0.00048	0.0055	09/03/2004	heh		2061	SW 7471A	
GFAA Metals Digestion	1.009		g			09/02/2004	tdo	909		SW 3050 B	
ICP Metals Prep (Solid)	1.040		g			09/03/2004	tdo	1502		SW 3050 B	
ICP Metals-Solid mdl											
Barium, (ICP) mdl	29		mg/kg dw	0.205	0.52	09/07/2004	llw	1502	2794	SW 6010B	
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.88	09/07/2004	llw	1502	2800	SW 6010B	

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ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821356	SAMPLE DESCRIPTION SB-66 2'					DATE-TIME TAKEN 09/01/2004 15:45				
Chromium, (ICP) mdl	3.4		mg/kg dw	0.41	1.0	09/07/2004	llw	1502	2799	SW 6010B
Lead, (ICP) mdl	10		mg/kg dw	5.2	5.2	09/07/2004	llw	1502	2816	SW 6010B
Selenium, (ICP) mdl	<7.9		mg/kg dw	7.9	7.9	09/07/2004	llw	1502	2793	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.0	09/07/2004	llw	1502	628	SW 6010B
VOA 8260 NON-AQUEOUS LRL										
Acetone	23.9		ug/kg dw	8.4	25	09/11/2004	mmk		1033	SW 8260B
Benzene	<0.58		ug/kg dw	0.58	1.73	09/11/2004	mmk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.20	09/11/2004	mmk		1033	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	2.99	09/11/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.36		ug/kg dw	2.36	7.08	09/11/2004	mmk		1033	SW 8260B
Bromoform	<3.51		ug/kg dw	3.51	10.5	09/11/2004	mmk		1033	SW 8260B
Bromomethane	<5.14		ug/kg dw	5.14	15.2	09/11/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.10	09/11/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/11/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.52	5.2	09/11/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/11/2004	mmk		1033	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.9	09/11/2004	mmk		1033	SW 8260B
Chlorobenzene	<0.446		ug/kg dw	0.446	1.338	09/11/2004	mmk		1033	SW 8260B
Chlorodibromomethane	<1.47		ug/kg dw	1.47	4.41	09/11/2004	mmk		1033	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.20	09/11/2004	mmk		1033	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.68	09/11/2004	mmk		1033	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/11/2004	mmk		1033	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.05	09/11/2004	mmk		1033	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.73	09/11/2004	mmk		1033	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/11/2004	mmk		1033	SW 8260B
1,2-Dibromoethane (EDB)	<3.09		ug/kg dw	3.09	9.28	09/11/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821356	SB-66 2'								09/01/2004 15:45	
Dibromomethane	<0.79		ug/kg dw	0.79	2.36	09/11/2004	mmk		1033	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/11/2004	mmk		1033	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/11/2004	mmk		1033	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.05	09/11/2004	mmk		1033	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	2.99	09/11/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/11/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/11/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.351		ug/kg dw	0.351	1.05	09/11/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	2.99	09/11/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.36	09/11/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	1.90		ug/kg dw	0.45	1.35	09/11/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.68	09/11/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/11/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.68	09/11/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.52	09/11/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.36	09/11/2004	mmk		1033	SW 8260B
Ethylbenzene	<0.58	B	ug/kg dw	0.58	1.73	09/11/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.04		ug/kg dw	3.04	9.13	09/11/2004	mmk		1033	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.10	09/11/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/11/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/11/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/11/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.10	09/11/2004	mmk		1033	SW 8260B
MTBE	<4.98		ug/kg dw	4.98	14.9	09/11/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.84	5.2	09/11/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.58	5.2	09/11/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821356	SB-66 2'								09/01/2004 15:45	
Styrene	<0.40		ug/kg dw	0.40	1.20	09/11/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.89		ug/kg dw	1.89	5.67	09/11/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/11/2004	mmk		1033	SW 8260B
Tetrachloroethene	1.11		ug/kg dw	0.68	2.05	09/11/2004	mmk		1033	SW 8260B
Toluene	<0.73		ug/kg dw	0.73	2.20	09/11/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/11/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.34	5.2	09/11/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	1.71		ug/kg dw	1.10	3.30	09/11/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/11/2004	mmk		1033	SW 8260B
Trichloroethylene	19.6		ug/kg dw	1.0	2.99	09/11/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.41	09/11/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/11/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/11/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/11/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.36	09/11/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/11/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	99		%			09/11/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	100		%			09/11/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	97		%			09/11/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821357	SAMPLE DESCRIPTION SB-68 2'								DATE-TIME TAKEN 09/01/2004 16:20	
Extraction Prep, soil	COMPLETE					09/02/2004	acm	3177		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	106		mg/kg		10	09/17/2004	ljm	3177	5416	IA-OA2/S-8015
Diesel	10.2		mg/kg		10	09/17/2004	ljm	3177	5416	IA-OA2/S-8015
Gasoline	<10		mg/kg		10	09/17/2004	ljm	3177	5416	IA-OA2/S-8015
Motor Oil	95.3		mg/kg		10	09/17/2004	ljm	3177	5416	IA-OA2/S-8015
N-Octacosane (Surr.)	88		%	1.0	1.0	09/17/2004	ljm	3177	5416	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg		0.25	09/07/2004	ake		5792	IA-OA1
Toluene	<0.5		mg/kg		0.5	09/07/2004	ake		5792	IA-OA1
Ethylbenzene	<0.5		mg/kg		0.5	09/07/2004	ake		5792	IA-OA1
Xylenes, Total	<0.5		mg/kg		0.5	09/07/2004	ake		5792	IA-OA1
4-Bromofluorobenzene (surr.)	90.1		%	1	1	09/07/2004	ake		5792	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
821358	TB-3	09/01/2004 09:00
VOLATILE COMPOUNDS		
Benzene	<0.25 ug/L	0.25 0.75 09/10/2004 dmd 5648 SW 8260B
Bromodichloromethane	<0.46 ug/L	0.46 1.4 09/10/2004 dmd 5648 SW 8260B
Bromoform	<0.38 ug/L	0.38 1.1 09/10/2004 dmd 5648 SW 8260B
Bromomethane	<0.62 ug/L	0.62 1.9 09/10/2004 dmd 5648 SW 8260B

ANALYTICAL REPORT

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821358	SAMPLE DESCRIPTION TB-3					DATE-TIME TAKEN 09/01/2004 09:00				
Bromobenzene	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/10/2004	dmd		5648	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/10/2004	dmd		5648	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloromethane	0.39		ug/L	0.24	0.72	09/10/2004	dmd		5648	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/10/2004	dmd		5648	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821358	TB-3					09/01/2004 09:00				
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/10/2004	dmd		5648	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Hexachlorobutadiene	0.52	B	ug/L	0.22	0.66	09/10/2004	dmd		5648	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/10/2004	dmd		5648	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/10/2004	dmd		5648	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/10/2004	dmd		5648	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichlorobenzene	0.55	B	ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trichlorobenzene	0.26	B	ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821358	TB-3					09/01/2004 09:00				
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd	5648	SW 8260B	
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/10/2004	dmd	5648	SW 8260B	
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd	5648	SW 8260B	
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/10/2004	dmd	5648	SW 8260B	
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/10/2004	dmd	5648	SW 8260B	
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/10/2004	dmd	5648	SW 8260B	
Dibromofluoromethane (surr)	105		%			09/10/2004	dmd	5648	SW 8260B	
Toluene-d8 (surr)	99		%			09/10/2004	dmd	5648	SW 8260B	
4-Bromofluorobenzene (surr)	84		%			09/10/2004	dmd	5648	SW 8260B	
VOA Preservation pH	<2		units	NA		09/11/2004	dmd	1043	SW 9041A	

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ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 - 319-277-2401 - 800-750-2401 - FAX 319-277-2423

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Arsenic, (GFAA) mdl		629	0.0250	mg/L	0.0253	101		09/07/2004
Arsenic, (GFAA) mdl		629	0.0250	mg/L	0.0261	104		09/07/2004
Mercury, mdl		2061	3.00	mg/L	3.09	103		09/03/2004
Mercury, mdl		2061	3.00	mg/L	3.06	102		09/03/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2794	5.00	mg/L	4.90	98		09/07/2004
Cadmium, (ICP) mdl		2800	5.00	mg/L	4.90	98		09/07/2004
Chromium, (ICP) mdl		2799	5.00	mg/L	5.00	100		09/07/2004
Lead, (ICP) mdl		2816	5.00	mg/L	4.95	99		09/07/2004
Selenium, (ICP) mdl		2793	5.00	mg/L	4.91	98		09/07/2004
VOLATILE COMPOUNDS								
Benzene		5648	100.0	ug/L	97.1	97		09/10/2004
Chlorobenzene		5648	100.0	ug/L	96.4	96		09/10/2004
1,1-Dichloroethene		5648	100.0	ug/L	98.7	99		09/10/2004
Ethylbenzene		5648	100.0	ug/L	98.5	98		09/10/2004
MTBE		5648	100.0	ug/L	89.8	90		09/10/2004
1,2,4-Trimethylbenzene		5648	100.0	ug/L	92.6	93		09/10/2004
Toluene		5648	100.0	ug/L	97.3	97		09/10/2004
1,3,5-Trimethylbenzene		5648	100.0	ug/L	93.2	93		09/10/2004
Trichloroethylene		5648	100.0	ug/L	99.5	100		09/10/2004
Xylenes, Total		5648	300.0	ug/L	291	97		09/10/2004
Dibromofluoromethane (surr)		5648	100.0000	%	98.9	99		09/10/2004
Toluene-d8 (surr)		5648	100.0000	%	101	101		09/10/2004
4-Bromofluorobenzene (surr)		5648	100.0000	%	99.7	100		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1028	50.0	ug/L	56.3	113		09/09/2004
Bromoform		1028	50.0	ug/L	54.2	108		09/09/2004
Chlorobenzene		1028	50.0	ug/L	54.8	110		09/09/2004
1,1-Dichloroethane		1028	50.0	ug/L	57.3	115		09/09/2004
1,1-Dichloroethene		1028	50.0	ug/L	63.0	126		09/09/2004
Ethylbenzene		1028	50.0	ug/L	56.6	113		09/09/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
MTBE		1028	50.0	ug/L	52.6	105		09/09/2004
1,1,2,2-Tetrachloroethane		1028	50.0	ug/L	52.3	105		09/09/2004
Toluene		1028	50.0	ug/L	54.4	109		09/09/2004
Trichloroethylene		1028	50.0	ug/L	57.7	115		09/09/2004
1,2,4-Trimethylbenzene		1028	50.0	ug/L	49.9	100		09/09/2004
1,3,5-Trimethylbenzene		1028	50.0	ug/L	55.2	110		09/09/2004
Vinyl Chloride		1028	50.0	ug/L	61.1	122		09/09/2004
Xylenes, Total		1028	150.0	ug/L	164	109		09/09/2004
4-Bromofluorobenzene (surr)		1028	100	%	100	100		09/09/2004
Dibromofluoromethane (surr)		1028	100	%	92	92		09/09/2004
Toluene-d8 (surr)		1028	100	%	99	99		09/09/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	100	ug/L	105	105		09/11/2004
Bromoform		1033	100	ug/L	91.2	91		09/11/2004
Chlorobenzene		1033	100	ug/L	104	104		09/11/2004
1,1-Dichloroethane		1033	100	ug/L	130	130		09/11/2004
1,1-Dichloroethene		1033	100	ug/L	131	131		09/11/2004
Ethylbenzene		1033	100	ug/L	108	108		09/11/2004
MTBE		1033	100	ug/L	118	118		09/11/2004
1,1,2,2-Tetrachloroethane		1033	100	ug/L	97.0	97		09/11/2004
Toluene		1033	100	ug/L	110	110		09/11/2004
Trichloroethylene		1033	100	ug/L	105	105		09/11/2004
1,2,4-Trimethylbenzene		1033	100	ug/L	87.2	87		09/11/2004
1,3,5-Trimethylbenzene		1033	100	ug/L	97.9	98		09/11/2004
Vinyl Chloride		1033	100	ug/L	129	129		09/11/2004
Xylenes, Total		1033	300	ug/L	308	103		09/11/2004
4-Bromofluorobenzene (surr)		1033	100	%	92	92		09/11/2004
Dibromofluoromethane (surr)		1033	100	%	104	104		09/11/2004
Toluene-d8 (surr)		1033	100	%	104	104		09/11/2004
BNA Soil 8270 MDL								
Acenaphthene		168	50	ug/L	53	106		09/07/2004

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Bis(2-ethylhexyl)phthalate		168	50	ug/L	51	102		09/07/2004
1,4-Dichlorobenzene		168	50	ug/L	51	102		09/07/2004
2,4-Dinitrotoluene		168	50	ug/L	54	108		09/07/2004
N-Nitrosodi-n-propylamine		168	50	ug/L	52	104		09/07/2004
Pyrene		168	50	ug/L	51	102		09/07/2004
1,2,4-Trichlorobenzene		168	50	ug/L	52	104		09/07/2004
Nitrobenzene-d5 (surr)		168	50.0	%	53.4	107		09/07/2004
2-Fluorobiphenyl (surr)		168	50.0	%	53.9	108		09/07/2004
Terphenyl-d14 (surr)		168	50.0	%	53.2	106		09/07/2004
4-Chloro-3-methylphenol		168	50	ug/L	47	94		09/07/2004
2-chlorophenol		168	50	ug/L	52	104		09/07/2004
4-Nitrophenol		168	50	ug/L	57	114		09/07/2004
Pentachlorophenol		168	50	ug/L	61	122		09/07/2004
Phenol		168	50	ug/L	53	106		09/07/2004
Phenol-d6 (surr)		168	50.0	%	53	106		09/07/2004
2-Fluorophenol (surr)		168	50.0	%	54	108		09/07/2004
Tribromophenol (surr)		168	50.0	%	61	122		09/07/2004
PCB's Non-Aqueous								
PCB-1254		1876	0.96	ppm	1.05	109		09/08/2004
Decachlorobiphenyl (Surr.)		1876	100	%	106	106		09/08/2004
Tetrachlorometaxylene (Surr.)		1876	100	%	97	97		09/08/2004
PCB's Non-Aqueous								
PCB-1254		1876	0.96	ppm	1.04	108		09/09/2004
Decachlorobiphenyl (Surr.)		1876	100	%	103	103		09/09/2004
Tetrachlorometaxylene (Surr.)		1876	100	%	97	97		09/09/2004
PCB's Non-Aqueous								
PCB-1260		1880	0.96	ppm	1.07	112		09/08/2004
Decachlorobiphenyl (Surr.)		1880	100	%	109	109		09/08/2004
Tetrachlorometaxylene (Surr.)		1880	100	%	101	101		09/08/2004
PCB's Non-Aqueous								
PCB-1260		1880	0.96	ppm	1.05	109		09/09/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Decachlorobiphenyl (Surr.)		1880	100	%	108	108		09/09/2004
Tetrachlorometaxylene (Surr.)		1880	100	%	100	100		09/09/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5416	2,500	mg/kg	2,590	104		09/17/2004
Gasoline		5416	2,500	mg/kg	2,380	95		09/17/2004
Motor Oil		5416	2,500	mg/kg	2,410	96		09/17/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5792	50.0	mg/kg	54.9	110		09/07/2004
Toluene		5792	50.0	mg/kg	54.5	109		09/07/2004
Ethylbenzene		5792	50.0	mg/kg	57.0	114		09/07/2004
Xylenes, Total		5792	100	mg/kg	109	109		09/07/2004
4-Bromofluorobenzene (surr.)		5792	100.	%	106	106		09/07/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	909	629	<0.0021		mg/L	0.21	1.0	09/07/2004
Barium, (ICP) mdl	1502	2794	<0.0039		mg/L	0.195	0.50	09/07/2004
Cadmium, (ICP) mdl	1502	2800	<0.0048		mg/L	0.24	0.84	09/07/2004
Chromium, (ICP) mdl	1502	2799	<0.0078		mg/L	0.39	1.0	09/07/2004
Lead, (ICP) mdl	1502	2816	<0.10		mg/L	5.0	5.0	09/07/2004
Selenium, (ICP) mdl	1502	2793	<0.15		mg/L	7.5	7.5	09/07/2004
Silver, (ICP) mdl	1502	628	<0.0114		mg/L	0.57	1.0	09/07/2004
VOLATILE COMPOUNDS								
Benzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromodichloromethane		5648	<0.46		ug/L	0.46	1.4	09/10/2004
Bromoform		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Bromomethane		5648	<0.62		ug/L	0.62	1.9	09/10/2004
Bromobenzene		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Carbon disulfide		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromochloromethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
Carbon tetrachloride		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dibromomethane		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Chlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
n-Butylbenzene		5648	0.14	B	ug/L	0.13	0.39	09/10/2004
sec-Butylbenzene		5648	<0.16		ug/L	0.16	0.48	09/10/2004
tert-Butylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloroethane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
Chloroform		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloromethane		5648	<0.24		ug/L	0.24	0.72	09/10/2004
2-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
4-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chlorodibromomethane		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dibromo-3-chloropropane		5648	<0.30		ug/L	0.30	0.90	09/10/2004
1,2-Dibromoethane (EDB)		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,4-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dichlorodifluoromethane		5648	<0.40		ug/L	0.4	1.2	09/10/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Di-Isopropylether		5648	<0.32		ug/L	0.32	0.96	09/10/2004
1,3-Dichloropropane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
2,2-Dichloropropane		5648	<0.73		ug/L	0.73	2.2	09/10/2004
1,1-Dichloropropene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
trans-1,2-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
cis-1,2-Dichloroethene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
1,2-Dichloropropane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
cis-1,3-Dichloropropene		5648	<0.43		ug/L	0.43	1.2	09/10/2004
trans-1,3-Dichloropropene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Hexachlorobutadiene		5648	0.68	B	ug/L	0.22	0.66	09/10/2004
Ethylbenzene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Isopropylbenzene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
p-Isopropyltoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Hexane		5648	<0.18		ug/L	0.18	0.54	09/10/2004
MTBE		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Methylene chloride		5648	<0.63		ug/L	0.63	1.9	09/10/2004
Napthalene		5648	<0.86		ug/L	0.86	2.6	09/10/2004
n-Propylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Styrene		5648	<0.41		ug/L	0.41	1.2	09/10/2004
1,1,1,2-Tetrachloroethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
1,1,2,2-Tetrachloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2,3-Trichlorobenzene		5648	1.18	B	ug/L	0.40	1.2	09/10/2004
1,2,4-Trichlorobenzene		5648	0.52	B	ug/L	0.25	0.75	09/10/2004
Tetrachloroethene		5648	<0.37		ug/L	0.37	1.1	09/10/2004
1,2,3-Trichloropropane		5648	<0.49		ug/L	0.49	1.5	09/10/2004
1,2,4-Trimethylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Toluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3,5-Trimethylbenzene		5648	<0.14		ug/L	0.14	0.42	09/10/2004
1,1,1-Trichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1,2-Trichloroethane		5648	<0.10		ug/L	0.10	0.3	09/10/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichloroethylene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Trichlorofluoromethane		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Vinyl chloride		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Xylenes, Total		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Dibromofluoromethane (surr)		5648	105.0		%			09/10/2004
Toluene-d8 (surr)		5648	91.0		%			09/10/2004
4-Bromofluorobenzene (surr)		5648	92.0		%			09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1028	<8.0		ug/kg	8.0	24	09/09/2004
Benzene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
Bromobenzene		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
Bromochloromethane		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
Bromodichloromethane		1028	<2.25		ug/kg	2.25	6.75	09/09/2004
Bromoform		1028	<3.35		ug/kg	3.35	10.0	09/09/2004
Bromomethane		1028	<4.90		ug/kg	4.90	14.5	09/09/2004
Methyl ethyl ketone (MEK)		1028	<0.85		ug/kg	0.85	2.00	09/09/2004
n-Butylbenzene		1028	<5.0		ug/kg	0.47	5.0	09/09/2004
sec-Butylbenzene		1028	<5.0		ug/kg	1.45	5.0	09/09/2004
tert-Butylbenzene		1028	<5.0		ug/kg	0.5	5.0	09/09/2004
Carbon tetrachloride		1028	<6.0		ug/kg	6.0	18.0	09/09/2004
Chlorobenzene		1028	<0.425		ug/kg	0.425	1.275	09/09/2004
Chlorodibromomethane		1028	<1.40		ug/kg	1.40	4.20	09/09/2004
Chloroethane		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
Chloroform		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
Chloromethane		1028	<0.5		ug/kg	0.5	1.5	09/09/2004
2-Chlorotoluene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004
4-Chlorotoluene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
1,2-Dibromo-3-chloropropane		1028	<10		ug/kg	10	30	09/09/2004
1,2-Dibromoethane (EDB)		1028	<2.95		ug/kg	2.95	8.85	09/09/2004
Dibromomethane		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
1,2-Dichlorobenzene		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,3-Dichlorobenzene		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,4-Dichlorobenzene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004

QUALITY CONTROL REPORT BLANKS

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09/28/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
1,1-Dichloroethane		1028	<0.80		ug/kg	0.80	2.4	09/09/2004
1,2-Dichloroethane		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,1-Dichloroethene		1028	<0.335		ug/kg	0.335	1.00	09/09/2004
cis-1,2-Dichloroethene		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
trans-1,2-Dichloroethene		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
1,2-Dichloropropane		1028	<0.43		ug/kg	0.43	1.29	09/09/2004
1,3-Dichloropropane		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
2,2-Dichloropropane		1028	<0.36		ug/kg	0.36	1.08	09/09/2004
1,1-Dichloropropene		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
cis-1,3-Dichloropropene		1028	<0.80		ug/kg	0.80	2.40	09/09/2004
trans-1,3-Dichloropropene		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
Ethylbenzene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
Hexachlorobutadiene		1028	<2.90		ug/kg	2.90	8.70	09/09/2004
2-Hexanone		1028	<0.55		ug/kg	0.55	2.00	09/09/2004
Isopropylbenzene		1028	<0.36		ug/kg	0.36	1.08	09/09/2004
p-Isopropyltoluene		1028	<0.5		ug/kg	0.5	1.5	09/09/2004
Methylene chloride		1028	<50		ug/kg	7.0	50	09/09/2004
Methyl isobutyl ketone		1028	<0.70		ug/kg	0.70	2.00	09/09/2004
MTBE		1028	<4.75		ug/kg	4.75	14.2	09/09/2004
Naphthalene		1028	<5.0		ug/kg	0.80	5.0	09/09/2004
n-Propylbenzene		1028	<5.0		ug/kg	0.55	5.0	09/09/2004
Styrene		1028	<0.38		ug/kg	0.38	1.14	09/09/2004
1,1,1,2-Tetrachloroethane		1028	<1.80		ug/kg	1.80	5.40	09/09/2004
1,1,2,2-Tetrachloroethane		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
Tetrachloroethene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004
Toluene		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
1,2,3-Trichlorobenzene		1028	<5.0		ug/kg	1.6	5.0	09/09/2004
1,2,4-Trichlorobenzene		1028	<5.0		ug/kg	0.32	5.0	09/09/2004
1,1,1-Trichloroethane		1028	<1.05		ug/kg	1.05	3.15	09/09/2004
1,1,2-Trichloroethane		1028	<1.2		ug/kg	1.2	3.6	09/09/2004
Trichloroethylene		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
Trichlorofluoromethane		1028	<0.44		ug/kg	0.44	1.34	09/09/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2,3-Trichloropropane		1028	<0.90		ug/kg	0.90	2.7	09/09/2004
1,2,4-Trimethylbenzene		1028	<5.0		ug/kg	1.4	5.0	09/09/2004
1,3,5-Trimethylbenzene		1028	<5.0		ug/kg	2.3	5.0	09/09/2004
Vinyl Chloride		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
Xylenes, Total		1028	<5.0		ug/kg	1.6	5.0	09/09/2004
4-Bromofluorobenzene (surr)		1028	97		%			09/09/2004
Dibromofluoromethane (surr)		1028	94		%			09/09/2004
Toluene-d8 (surr)		1028	94		%			09/09/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1033	<8.0		ug/kg	8.0	24	09/11/2004
Benzene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
Bromobenzene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Bromochloromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
Bromodichloromethane		1033	<2.25		ug/kg	2.25	6.75	09/11/2004
Bromoform		1033	<3.35		ug/kg	3.35	10.0	09/11/2004
Bromomethane		1033	<4.90		ug/kg	4.90	14.5	09/11/2004
Methyl ethyl ketone (MEK)		1033	<0.85		ug/kg	0.85	2.00	09/11/2004
n-Butylbenzene		1033	<5.0		ug/kg	0.47	5.0	09/11/2004
sec-Butylbenzene		1033	<5.0		ug/kg	1.45	5.0	09/11/2004
tert-Butylbenzene		1033	<5.0		ug/kg	0.5	5.0	09/11/2004
Carbon tetrachloride		1033	<6.0		ug/kg	6.0	18.0	09/11/2004
Chlorobenzene		1033	<0.425		ug/kg	0.425	1.275	09/11/2004
Chlorodibromomethane		1033	<1.40		ug/kg	1.40	4.20	09/11/2004
Chloroethane		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Chloroform		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
Chloromethane		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
2-Chlorotoluene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
4-Chlorotoluene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
1,2-Dibromo-3-chloropropane		1033	<10		ug/kg	10	30	09/11/2004
1,2-Dibromoethane (EDB)		1033	<2.95		ug/kg	2.95	8.85	09/11/2004
Dibromomethane		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,3-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/28/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,4-Dichlorobenzene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
Dichlorodifluoromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
1,1-Dichloroethane		1033	<0.80		ug/kg	0.80	2.4	09/11/2004
1,2-Dichloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,1-Dichloroethene		1033	<0.335		ug/kg	0.335	1.00	09/11/2004
cis-1,2-Dichloroethene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
trans-1,2-Dichloroethene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichloropropane		1033	<0.43		ug/kg	0.43	1.29	09/11/2004
1,3-Dichloropropane		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
2,2-Dichloropropane		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
1,1-Dichloropropene		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
cis-1,3-Dichloropropene		1033	<0.80		ug/kg	0.80	2.40	09/11/2004
trans-1,3-Dichloropropene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Ethylbenzene		1033	1.05	B	ug/kg	0.55	1.65	09/11/2004
Hexachlorobutadiene		1033	<2.90		ug/kg	2.90	8.70	09/11/2004
2-Hexanone		1033	<0.55		ug/kg	0.55	2.00	09/11/2004
Isopropylbenzene		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
p-Isopropyltoluene		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
Methylene chloride		1033	<50		ug/kg	7.0	50	09/11/2004
Methyl isobutyl ketone		1033	<0.70		ug/kg	0.70	2.00	09/11/2004
MTBE		1033	<4.75		ug/kg	4.75	14.2	09/11/2004
Naphthalene		1033	<5.0		ug/kg	0.80	5.0	09/11/2004
n-Propylbenzene		1033	<5.0		ug/kg	0.55	5.0	09/11/2004
Styrene		1033	<0.38		ug/kg	0.38	1.14	09/11/2004
1,1,1,2-Tetrachloroethane		1033	<1.80		ug/kg	1.80	5.40	09/11/2004
1,1,2,2-Tetrachloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
Tetrachloroethene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
Toluene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
1,2,3-Trichlorobenzene		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
1,2,4-Trichlorobenzene		1033	<5.0		ug/kg	0.32	5.0	09/11/2004
1,1,1-Trichloroethane		1033	<1.05		ug/kg	1.05	3.15	09/11/2004
1,1,2-Trichloroethane		1033	<1.2		ug/kg	1.2	3.6	09/11/2004
Trichloroethylene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/28/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichlorofluoromethane		1033	<0.44		ug/kg	0.44	1.34	09/11/2004
1,2,3-Trichloropropane		1033	<0.90		ug/kg	0.90	2.7	09/11/2004
1,2,4-Trimethylbenzene		1033	<5.0		ug/kg	1.4	5.0	09/11/2004
1,3,5-Trimethylbenzene		1033	<5.0		ug/kg	2.3	5.0	09/11/2004
Vinyl Chloride		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Xylenes, Total		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
4-Bromofluorobenzene (surr)		1033	90		%			09/11/2004
Dibromofluoromethane (surr)		1033	101		%			09/11/2004
Toluene-d8 (surr)		1033	99		%			09/11/2004
BNA Soil 8270 MDL								
Acenaphthene	106	168	<0.063		mg/kg	0.063	0.189	09/07/2004
Acenaphthylene	106	168	<0.059		mg/kg	0.059	0.177	09/07/2004
Anthracene	106	168	<0.039		mg/kg	0.039	0.117	09/07/2004
Benzidine	106	168	<0.098		mg/kg	0.098	0.294	09/07/2004
Benzo(a)anthracene	106	168	<0.035		mg/kg	0.035	0.105	09/07/2004
Benzo(b)fluoranthene	106	168	<0.037		mg/kg	0.037	0.111	09/07/2004
Benzo(k)fluoranthene	106	168	<0.049		mg/kg	0.049	0.147	09/07/2004
Benzo(a)pyrene	106	168	<0.049		mg/kg	0.049	0.147	09/07/2004
Benzo(ghi)perylene	106	168	<0.039		mg/kg	0.039	0.117	09/07/2004
Benzyl alcohol	106	168	<0.081		mg/kg	0.081	0.243	09/07/2004
Benzyl butyl phthalate	106	168	<0.043		mg/kg	0.043	0.129	09/07/2004
Bis(2-chloroethyl)ether	106	168	<0.078		mg/kg	0.078	0.234	09/07/2004
Bis(2-chloroethoxy)methane	106	168	<0.074		mg/kg	0.074	0.222	09/07/2004
Bis(2-ethylhexyl)phthalate	106	168	<0.032		mg/kg	0.032	0.096	09/07/2004
Bis(2chloroisopropyl)ether	106	168	<0.086		mg/kg	0.086	0.258	09/07/2004
4-Bromophenyl phenyl ether	106	168	<0.048		mg/kg	0.048	0.144	09/07/2004
Carbazole	106	168	<0.039		mg/kg	0.039	0.117	09/07/2004
4-Chloroaniline	106	168	<0.104		mg/kg	0.104	0.312	09/07/2004
2-Chloronaphthalene	106	168	<0.070		mg/kg	0.070	0.21	09/07/2004
4-Chlorophenylphenyl ether	106	168	<0.055		mg/kg	0.055	0.165	09/07/2004
Chrysene	106	168	<0.030		mg/kg	0.030	0.090	09/07/2004
Dibenzo(a,h)anthracene	106	168	<0.077		mg/kg	0.077	0.231	09/07/2004
Dibenzofuran	106	168	<0.047		mg/kg	0.047	0.141	09/07/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Di-n-butylphthalate	106	168	<0.043		mg/kg	0.043	0.129	09/07/2004
1,2-Dichlorobenzene	106	168	<0.103		mg/kg	0.103	0.309	09/07/2004
1,3-Dichlorobenzene	106	168	<0.092		mg/kg	0.092	0.276	09/07/2004
1,4-Dichlorobenzene	106	168	<0.085		mg/kg	0.085	0.255	09/07/2004
3,3-Dichlorobenzidine	106	168	<0.107		mg/kg	0.107	0.321	09/07/2004
Diethyl phthalate	106	168	<0.047		mg/kg	0.047	0.141	09/07/2004
2,4-Dinitrotoluene	106	168	<0.047		mg/kg	0.047	0.141	09/07/2004
2,6-Dinitrotoluene	106	168	<0.066		mg/kg	0.066	0.198	09/07/2004
Di-n-octylphthalate	106	168	<0.060		mg/kg	0.060	0.18	09/07/2004
Fluorene	106	168	<0.053		mg/kg	0.053	0.159	09/07/2004
Hexachlorobenzene	106	168	<0.029		mg/kg	0.029	0.087	09/07/2004
Hexachlorocyclopentadiene	106	168	<0.058		mg/kg	0.058	0.174	09/07/2004
Hexachloro-1,3-butadiene	106	168	<0.067		mg/kg	0.067	0.201	09/07/2004
Hexachloroethane	106	168	<0.082		mg/kg	0.082	0.246	09/07/2004
Indeno (1,2,3-cd)pyrene	106	168	<0.031		mg/kg	0.031	0.093	09/07/2004
Isophorone	106	168	<0.059		mg/kg	0.059	0.177	09/07/2004
2-Methylnaphthalene	106	168	<0.064		mg/kg	0.064	0.192	09/07/2004
Naphthalene	106	168	<0.073		mg/kg	0.073	0.219	09/07/2004
2-Nitroaniline	106	168	<0.070		mg/kg	0.070	0.21	09/07/2004
3-Nitroaniline	106	168	<0.059		mg/kg	0.059	0.177	09/07/2004
4-Nitroaniline	106	168	<0.069		mg/kg	0.069	0.207	09/07/2004
Nitrobenzene	106	168	<0.076		mg/kg	0.076	0.228	09/07/2004
N-Nitrosodimethylamine	106	168	<0.111		mg/kg	0.111	0.333	09/07/2004
N-Nitrosodiphenylamine	106	168	<0.034		mg/kg	0.034	0.102	09/07/2004
N-Nitrosodi-n-propylamine	106	168	<0.083		mg/kg	0.083	0.249	09/07/2004
Phenanthrene	106	168	<0.038		mg/kg	0.038	0.114	09/07/2004
Pyrene	106	168	<0.050		mg/kg	0.050	0.15	09/07/2004
Pyridine	106	168	<0.112		mg/kg	0.112	0.336	09/07/2004
1,2,4-Trichlorobenzene	106	168	<0.073		mg/kg	0.073	0.219	09/07/2004
Nitrobenzene-d5 (surr)	106	168	76.0		%			09/07/2004
2-Fluorobiphenyl (surr)	106	168	77.0		%			09/07/2004
Terphenyl-d14 (surr)	106	168	95.0		%			09/07/2004
Benzoic Acid	106	168	<0.33		mg/kg	0.33	0.99	09/07/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
4-Chloro-3-methylphenol	106	168	<0.072		mg/kg	0.072	0.216	09/07/2004
2-chlorophenol	106	168	<0.086		mg/kg	0.086	0.258	09/07/2004
2-Methylphenol	106	168	<0.078		mg/kg	0.078	0.234	09/07/2004
4-Methylphenol	106	168	<0.080		mg/kg	0.080	0.24	09/07/2004
Cresols, Total	106	168	<0.158		mg/kg	0.158	0.474	09/07/2004
2,4-Dichlorophenol	106	168	<0.074		mg/kg	0.074	0.222	09/07/2004
2,4-Dimethylphenol	106	168	<0.063		mg/kg	0.063	0.189	09/07/2004
2,4-Dinitrophenol	106	168	<0.028		mg/kg	0.028	0.084	09/07/2004
2-Methyl-4,6-dinitrophenol	106	168	<0.105		mg/kg	0.105	0.315	09/07/2004
2-Nitrophenol	106	168	<0.112		mg/kg	0.112	0.336	09/07/2004
4-Nitrophenol	106	168	<0.066		mg/kg	0.066	0.198	09/07/2004
Pentachlorophenol	106	168	<0.077	L	mg/kg	0.077	0.231	09/07/2004
Phenol	106	168	<0.077		mg/kg	0.077	0.231	09/07/2004
2,4,5-Trichlorophenol	106	168	<0.069		mg/kg	0.069	0.207	09/07/2004
2,4,6-Trichlorophenol	106	168	<0.054		mg/kg	0.054	0.162	09/07/2004
Phenol-d6 (surr)	106	168	76.0		%			09/07/2004
2-Fluorophenol (surr)	106	168	76.0		%			09/07/2004
Tribromophenol (surr)	106	168	94.0		%			09/07/2004
PCB's Non-Aqueous								
PCB-1016	830	1875	<0.25		mg/kg	0.15	0.25	09/08/2004
PCB-1221	830	1875	<0.25		mg/kg	0.19	0.25	09/08/2004
PCB-1232	830	1875	<0.25		mg/kg	0.029	0.25	09/08/2004
PCB-1242	830	1875	<0.25		mg/kg	0.049	0.25	09/08/2004
PCB-1248	830	1875	<0.25		mg/kg	0.019	0.25	09/08/2004
PCB-1254	830	1875	<0.25		mg/kg	0.025	0.25	09/08/2004
PCB-1260	830	1875	<0.25		mg/kg	0.14	0.25	09/08/2004
PCB-1268	830	1875	<0.25		mg/kg	0.063	0.25	09/08/2004
Decachlorobiphenyl (Surr.)	830	1875	104		%	1	1	09/08/2004
Tetrachlorometaxylene (Surr.)	830	1875	86		%	1	1	09/08/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3177	5416	<10		mg/kg	10	10	09/17/2004
Diesel	3177	5416	<10		mg/kg	6.7	10	09/17/2004
Gasoline	3177	5416	<10		mg/kg	5.7	10	09/17/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Motor Oil	3177	5416	<10		mg/kg	7.1	10	09/17/2004
N-Octacosane (Surr.)	3177	5416	77		%	1.0	1.0	09/17/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5792	<0.25		mg/kg	0.197	0.25	09/07/2004
Toluene		5792	<0.5		mg/kg	0.212	0.5	09/07/2004
Ethylbenzene		5792	<0.5		mg/kg	0.224	0.5	09/07/2004
Xylenes, Total		5792	<0.5		mg/kg	0.216	0.5	09/07/2004
4-Bromofluorobenzene (surr.)		5792	91.3		%	1	1	09/07/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Arsenic, (GFAA) mdl	909	629	0.0400	mg/L	0.0372	93		09/07/2004
Mercury, mdl		2061	0.157	mg/kg	0.130	83	B	09/03/2004
Barium, (ICP) mdl	1502	2794	0.400	mg/L	0.3685	92		09/07/2004
Cadmium, (ICP) mdl	1502	2800	1.00	mg/L	0.9519	95		09/07/2004
Chromium, (ICP) mdl	1502	2799	1.0	mg/L	0.9821	98		09/07/2004
Chromium, (ICP) mdl	1502	2799	1.00	mg/L	0.9821	98		09/07/2004
Lead, (ICP) mdl	1502	2816	2.00	mg/L	1.94	97		09/07/2004
Selenium, (ICP) mdl	1502	2793	4.00	mg/L	3.94	98		09/07/2004
Silver, (ICP) mdl	1502	628	1.00	mg/L	0.9961	100		09/07/2004
VOLATILE COMPOUNDS								
Benzene		5648	20.0	ug/L	19.6	98		09/10/2004
Chlorobenzene		5648	20.0	ug/L	20.8	104		09/10/2004
1,1-Dichloroethene		5648	20.0	ug/L	20.2	101		09/10/2004
Ethylbenzene		5648	20.0	ug/L	19.8	99		09/10/2004
MTBE		5648	20.0	ug/L	18.7	94		09/10/2004
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1	116		09/10/2004
Toluene		5648	20.0	ug/L	22.3	112		09/10/2004
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6	118		09/10/2004
Trichloroethylene		5648	20.0	ug/L	17.4	87		09/10/2004
Xylenes, Total		5648	60.0	ug/L	64.2	107		09/10/2004
Dibromofluoromethane (surr)		5648	100	%	101.0	101		09/10/2004
Toluene-d8 (surr)		5648	100	%	105.0	105		09/10/2004
4-Bromofluorobenzene (surr)		5648	100	%	104.0	104		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1028	28.19	ug/kg	30.8	109		09/09/2004
Bromoform		1028	28.19	ug/kg	29.6	105		09/09/2004
Chlorobenzene		1028	28.19	ug/kg	29.9	106		09/09/2004
1,1-Dichloroethane		1028	28.19	ug/kg	29.9	106		09/09/2004
1,1-Dichloroethene		1028	28.19	ug/kg	31.9	113		09/09/2004
Ethylbenzene		1028	28.19	ug/kg	29.0	103		09/09/2004
MTBE		1028	28.19	ug/kg	30.4	108		09/09/2004
1,1,2,2-Tetrachloroethane		1028	28.19	ug/kg	26.5	94		09/09/2004
Toluene		1028	28.19	ug/kg	29.4	104		09/09/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Trichloroethylene		1028	28.19	ug/kg	29.0	103		09/09/2004
1,2,4-Trimethylbenzene		1028	28.19	ug/kg	26.7	95		09/09/2004
1,3,5-Trimethylbenzene		1028	28.19	ug/kg	30.4	108		09/09/2004
Vinyl Chloride		1028	28.19	ug/kg	28.3	100		09/09/2004
Xylenes, Total		1028	84.58	ug/kg	89.0	105		09/09/2004
4-Bromofluorobenzene (surr)		1028	100	%	99	99		09/09/2004
Dibromofluoromethane (surr)		1028	100	%	96	96		09/09/2004
Toluene-d8 (surr)		1028	100	%	98	98		09/09/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	35.88	ug/kg	37.8	105		09/12/2004
Bromoform		1033	35.88	ug/kg	44.6	124		09/12/2004
Chlorobenzene		1033	35.88	ug/kg	37.4	104		09/12/2004
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	108		09/12/2004
1,1-Dichloroethene		1033	35.88	ug/kg	38.8	108		09/12/2004
Ethylbenzene		1033	35.88	ug/kg	40.2	112		09/12/2004
MTBE		1033	35.88	ug/kg	41.7	116		09/12/2004
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	98		09/12/2004
Toluene		1033	35.88	ug/kg	36.9	103		09/12/2004
Trichloroethylene		1033	35.88	ug/kg	39.9	111		09/12/2004
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	100		09/12/2004
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	117		09/12/2004
Vinyl Chloride		1033	35.88	ug/kg	31.6	88		09/12/2004
Xylenes, Total		1033	107.6	ug/kg	115	107		09/12/2004
4-Bromofluorobenzene (surr)		1033	100	%	101	101		09/12/2004
Dibromofluoromethane (surr)		1033	100	%	101	101		09/12/2004
Toluene-d8 (surr)		1033	100	%	97	97		09/12/2004
BNA Soil 8270 MDL								
Acenaphthene	106	168	3.33	mg/kg	3.07	92		09/07/2004
1,4-Dichlorobenzene	106	168	3.33	mg/kg	2.40	72		09/07/2004
2,4-Dinitrotoluene	106	168	3.33	mg/kg	3.65	110		09/07/2004
N-Nitrosodi-n-propylamine	106	168	3.33	mg/kg	2.76	83		09/07/2004
Pyrene	106	168	3.33	mg/kg	3.10	93		09/07/2004
1,2,4-Trichlorobenzene	106	168	3.33	mg/kg	2.62	79		09/07/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Nitrobenzene-d5 (surr)	106	168	100	%	72.0	72		09/07/2004
2-Fluorobiphenyl (surr)	106	168	100	%	79.0	79		09/07/2004
Terphenyl-d14 (surr)	106	168	100	%	91.0	91		09/07/2004
4-Chloro-3-methylphenol	106	168	3.33	mg/kg	2.86	86		09/07/2004
2-chlorophenol	106	168	3.33	mg/kg	2.59	78		09/07/2004
4-Nitrophenol	106	168	3.33	mg/kg	3.59	108		09/07/2004
Pentachlorophenol	106	168	3.33	mg/kg	1.21	36	L	09/07/2004
Phenol	106	168	3.33	mg/kg	2.63	79		09/07/2004
Phenol-d6 (surr)	106	168	100	%	71.0	71		09/07/2004
2-Fluorophenol (surr)	106	168	100	%	69.0	69		09/07/2004
Tribromophenol (surr)	106	168	100	%	101.0	101		09/07/2004
PCB's Non-Aqueous								
PCB-1232	830	1878	0.17	mg/kg	0.16	94		09/09/2004
Decachlorobiphenyl (Surr.)	830	1878	100	%	107	107		09/09/2004
Tetrachlorometaxylene (Surr.)	830	1878	100	%	90	90		09/09/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3177	5416	66.7	mg/kg	50.3	75		09/17/2004
N-Octacosane (Surr.)	3177	5416	100	%	83	83		09/17/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5792	11.7	mg/kg	14.0	120		09/07/2004
Toluene		5792	11.7	mg/kg	13.9	119		09/07/2004
Ethylbenzene		5792	11.7	mg/kg	14.5	124		09/07/2004
Xylenes, Total		5792	23.4	mg/kg	27.5	118		09/07/2004
4-Bromofluorobenzene (surr.)		5792	100.	%	91.7	92		09/07/2004

L - LCS recovery is outside of control limits.



QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12062

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2743	83.68	82.09	%	1.9		09/02/2004	20
Solids, Total		2743	98.99	98.99	%	0.0		09/02/2004	20
Solids, Total		2743	37.80	37.84	%	0.1		09/02/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12062

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	RPD
Arsenic, (GFAA) mdl	909	629	4.98	1.11	3.82	mg/kg dw	101.1	5.02	3.91	mg/kg dw	100.0	0.8
Mercury, mdl		2061	0.139	0.00382	0.163	mg/kg dw	83.0	0.131	0.155	mg/kg dw	82.1	6.2
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1502	2794	1,408	2,420	102	mg/kg dw	0.0	1,810	104	mg/kg dw	0.0	24.9
Cadmium, (ICP) mdl	1502	2800	246	132	102	mg/kg dw	112.4	240	104	mg/kg dw	103.8	2.7
Chromium, (ICP) mdl	1502	2799	136	67	102	mg/kg dw	68.1	173	104	mg/kg dw	101.7	23.5
Chromium, (ICP) mdl	1502	2799	136	67	102	mg/kg dw	68.1	173	104	mg/kg dw	101.7	23.5
Lead, (ICP) mdl	1502	2816	319	119	203	mg/kg dw	98.4	341	208	mg/kg dw	106.9	6.7
Lead, (ICP) mdl	1502	2816	319	121	203	mg/kg dw	97.3	341	208	mg/kg dw	105.8	6.7
Selenium, (ICP) mdl	1502	2793	401	<66	407	mg/kg dw	98.6	398	416	mg/kg dw	95.8	0.8
Silver, (ICP) mdl	1502	628	386	<5.1	405	mg/kg dw	95.4			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5648	2,580	2,200	400.0	ug/L	95.0	2,770	400.0	ug/L	142.5	7.1
Ethylbenzene		5648	1,780	1,430	400.0	ug/L	87.5	1,940	400.0	ug/L	127.5	8.6
Toluene		5648	11,900	10,800	400.0	ug/L	275.0	12,600	400.0	ug/L	450.0	5.7
BNA Soil 8270 MDL												
Acenaphthene	106	168	14	<0.32	3.25	mg/kg	420.9	14	3.32	mg/kg	421.7	0.0
1,4-Dichlorobenzene	106	168	11	<0.42	3.25	mg/kg	325.5	9.0	3.32	mg/kg	271.1	20.0
2,4-Dinitrotoluene	106	168	14	<0.24	3.25	mg/kg	423.4	14	3.32	mg/kg	421.7	0.0
N-Nitrosodi-n-propylamine	106	168	14	<0.42	3.25	mg/kg	417.8	13	3.32	mg/kg	391.6	7.4
Pyrene	106	168	16	1.2	3.25	mg/kg	455.4	18	3.32	mg/kg	506.0	11.8
1,2,4-Trichlorobenzene	106	168	12	<0.36	3.25	mg/kg	358.2	11	3.32	mg/kg	331.3	8.7
4-Chloro-3-methylphenol	106	168	14	<0.36	3.25	mg/kg	419.7	14	3.32	mg/kg	421.7	0.0
2-chlorophenol	106	168	13	<0.43	3.25	mg/kg	386.8	12	3.32	mg/kg	361.4	8.0
4-Nitrophenol	106	168	15	<0.33	3.25	mg/kg	451.4	16	3.32	mg/kg	481.9	6.5
Pentachlorophenol	106	168	1	<0.38	3.25	mg/kg	19.1	2	3.32	mg/kg	60.2	66.7
Phenol	106	168	14	<0.38	3.25	mg/kg	419.1	13	3.32	mg/kg	391.6	7.4

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12062

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
PCB's Non-Aqueous												
PCB-1232	830	1879	0.18	<0.26	0.18	mg/kg dw	100.0	0.18	0.18	mg/kg dw	100.0	0.0
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3177	5416	NA	10.2	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3177	5416	49.9	<10	65.6	mg/kg	76.1	59.5	65.5	mg/kg	90.8	17.6
Motor Oil	3177	5416	NA	95.3	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5792	10.7	<0.25	11.8	mg/kg	90.7	11.0	12.1	mg/kg	90.9	2.8
Toluene		5792	11.0	<0.5	11.8	mg/kg	93.2	11.3	12.1	mg/kg	93.4	2.7
Ethylbenzene		5792	11.7	<0.5	11.8	mg/kg	99.2	12.1	12.1	mg/kg	100.0	3.4
Xylenes, Total		5792	22.3	<0.5	23.6	mg/kg	94.5	23.0	24.2	mg/kg	95.0	3.1

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12062

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
Arsenic, (GFAA) mdl	909	629	0.0400	mg/L	0.0372		93.0		80 - 120		20
Mercury, mdl		2061	0.157	mg/kg	0.130		82.8		80 - 115		20
Barium, (ICP) mdl	1502	2794	0.400	mg/L	0.3685		92.1		90 - 110		20
Cadmium, (ICP) mdl	1502	2800	1.00	mg/L	0.9519		95.2		90 - 110		20
Chromium, (ICP) mdl	1502	2799	1.0	mg/L	0.9821		98.2		90 - 110		20
Chromium, (ICP) mdl	1502	2799	1.00	mg/L	0.9821		98.2		90 - 110		20
Lead, (ICP) mdl	1502	2816	2.00	mg/L	1.94		97.0		85 - 110		20
Selenium, (ICP) mdl	1502	2793	4.00	mg/L	3.94		98.5		90 - 110		20
Silver, (ICP) mdl	1502	628	1.00	mg/L	0.9961		99.6		80 - 120		
VOLATILE COMPOUNDS											
Benzene		5648	20.0	ug/L	19.6		98.0		81 - 124		27
Chlorobenzene		5648	20.0	ug/L	20.8		104.0		77 - 125		28
1,1-Dichloroethene		5648	20.0	ug/L	20.2		101.0		53 - 143		28
Ethylbenzene		5648	20.0	ug/L	19.8		99.0		65 - 140		24
MTBE		5648	20.0	ug/L	18.7		93.5		70 - 133		26
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1		115.5		59 - 145		23
Toluene		5648	20.0	ug/L	22.3		111.5		73 - 127		21
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6		118.0		63 - 141		24
Trichloroethylene		5648	20.0	ug/L	17.4		87.0		81 - 121		16
Xylenes, Total		5648	60.0	ug/L	64.2		107.0		75 - 130		20
Dibromofluoromethane (surr)		5648	100	%	101.0		101.0		85 - 118		50
Toluene-d8 (surr)		5648	100	%	105.0		105.0		76 - 120		50
4-Bromofluorobenzene (surr)		5648	100	%	104.0		104.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1028	28.19	ug/kg	30.8		109.3		68 - 158		20
Bromoform		1028	28.19	ug/kg	29.6		105.0		61 - 151		20
Chlorobenzene		1028	28.19	ug/kg	29.9		106.1		65 - 155		20
1,1-Dichloroethane		1028	28.19	ug/kg	29.9		106.1		64 - 154		20
1,1-Dichloroethene		1028	28.19	ug/kg	31.9		113.2		55 - 148		20
Ethylbenzene		1028	28.19	ug/kg	29.0		102.9		69 - 159		20
MTBE		1028	28.19	ug/kg	30.4		107.8		71 - 161		20
1,1,2,2-Tetrachloroethane		1028	28.19	ug/kg	26.5		94.0		63 - 153		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12062

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Toluene		1028	28.19	ug/kg	29.4		104.3		68 - 158		20
Trichloroethylene		1028	28.19	ug/kg	29.0		102.9		61 - 151		20
1,2,4-Trimethylbenzene		1028	28.19	ug/kg	26.7		94.7		68 - 158		20
1,3,5-Trimethylbenzene		1028	28.19	ug/kg	30.4		107.8		66 - 156		20
Vinyl Chloride		1028	28.19	ug/kg	28.3		100.4		47 - 137		20
Xylenes, Total		1028	84.58	ug/kg	89.0		105.2		69 - 159		20
4-Bromofluorobenzene (surr)		1028	100	%	99		99.0		75 - 119		20
Dibromofluoromethane (surr)		1028	100	%	96		96.0		56 - 146		
Toluene-d8 (surr)		1028	100	%	98		98.0		52 - 142		
VOA 8260 NON-AQUEOUS LRL											
Benzene		1033	35.88	ug/kg	37.8	39.8	105.4	110.9	68 - 158	5.2	20
Bromoform		1033	35.88	ug/kg	44.6	44.6	124.3	124.3	61 - 151	0.0	20
Chlorobenzene		1033	35.88	ug/kg	37.4	38.7	104.2	107.9	65 - 155	3.4	20
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	38.2	107.6	106.5	64 - 154	1.0	20
1,1-Dichloroethene		1033	35.88	ug/kg	38.8	38.9	108.1	108.4	55 - 148	0.3	20
Ethylbenzene		1033	35.88	ug/kg	40.2	39.0	112.0	108.7	69 - 159	3.0	20
1,1,1,2-Tetrachloroethane		1033	35.88	ug/kg	41.7	42.2	116.2	117.6	71 - 161	1.2	20
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	33.1	98.4	92.3	63 - 153	6.4	20
Toluene		1033	35.88	ug/kg	36.9	38.5	102.8	107.3	68 - 158	4.2	20
Trichloroethylene		1033	35.88	ug/kg	39.9	40.1	111.2	111.8	61 - 151	0.5	20
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	37.4	100.3	104.2	68 - 158	3.8	20
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	40.5	117.1	112.9	66 - 156	3.6	20
Vinyl Chloride		1033	35.88	ug/kg	31.6	31.4	88.1	87.5	47 - 137	0.6	20
Xylenes, Total		1033	107.6	ug/kg	115	112	106.9	104.1	69 - 159	2.6	20
4-Bromofluorobenzene (surr)		1033	100	%	101	102	101.0	102.0	75 - 119	1.0	20
Dibromofluoromethane (surr)		1033	100	%	101	101	101.0	101.0	56 - 146	0.0	
Toluene-d8 (surr)		1033	100	%	97	96	97.0	96.0	52 - 142	1.0	
BNA Soil 8270 MDL											
Acenaphthene	106	168	3.33	mg/kg	3.07		92.2		69 - 108		35
1,4-Dichlorobenzene	106	168	3.33	mg/kg	2.40		72.1		49 - 96		35
2,4-Dinitrotoluene	106	168	3.33	mg/kg	3.65		109.6		68 - 129		35
N-Nitrosodi-n-propylamine	106	168	3.33	mg/kg	2.76		82.9		53 - 105		35

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12062

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Pyrene	106	168	3.33	mg/kg	3.10		93.1		68 - 117		35
1,2,4-Trichlorobenzene	106	168	3.33	mg/kg	2.62		78.7		51 - 98		35
Nitrobenzene-d5 (surr)	106	168	100	%	72.0		72.0		56 - 113		
2-Fluorobiphenyl (surr)	106	168	100	%	79.0		79.0		67 - 107		
Terphenyl-d14 (surr)	106	168	100	%	91.0		91.0		66 - 115		
4-Chloro-3-methylphenol	106	168	3.33	mg/kg	2.86		85.9		67 - 115		35
2-chlorophenol	106	168	3.33	mg/kg	2.59		77.8		51 - 94		35
4-Nitrophenol	106	168	3.33	mg/kg	3.59		107.8		63 - 140		35
Pentachlorophenol	106	168	3.33	mg/kg	1.21		36.3		49 - 139		35
Phenol	106	168	3.33	mg/kg	2.63		79.0		50 - 98		35
Phenol-d6 (surr)	106	168	100	%	71.0		71.0		55 - 106		
2-Fluorophenol (surr)	106	168	100	%	69.0		69.0		52 - 96		
Tribromophenol (surr)	106	168	100	%	101.0		101.0		66 - 149		
PCB's Non-Aqueous											
PCB-1232	830	1878	0.17	mg/kg	0.16		94.1		19 - 109		20
Decachlorobiphenyl (Surr.)	830	1878	100	%	107		107.0		63 - 131		35
Tetrachlorometaxylene (Sur	830	1878	100	%	90		90.0		35 - 125		
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3177	5416	66.7	mg/kg	50.3		75.4		42 - 132		20
N-Octacosane (Surr.)	3177	5416	100	%	83		83.0		44 - 134		20
VOLATILES - BTEX (NONAQUEO											
Benzene		5792	11.7	mg/kg	14.0		119.7		78 - 151		20
Toluene		5792	11.7	mg/kg	13.9		118.8		79 - 151		20
Ethylbenzene		5792	11.7	mg/kg	14.5		123.9		79 - 157		20
Xylenes, Total		5792	23.4	mg/kg	27.5		117.5		76 - 149		20
4-Bromofluorobenzene (surr		5792	100.	%	91.7		91.7		78 - 124		

TestAmerica Job Number: 04.12062

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.


For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.


For questions regarding this report, please contact the individual who signed the analytical report.

Company: Howard R. Green Your PO #: _____
 Send Report To: CINDY QUAST Invoice To: HRG
 Address: 8710 Earhart Lane SW, P.O. Box 9009 TA Quote #: _____
 City/State/Zip Code: Cedar Rapids, IA 52409-9009 Project Name: CHAMBERLAIN
 Telephone Number: 319-847-4000 Fax: 319-847-4012 Project Number: 722930 J23
 Sampled by: (Print Name) JOE RYK Project Manager: CINDY QUAST
 (Signature)  Proj. Mgr. Telephone: (319) 841-4424

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative								Matrix				Analyze For:				RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report											
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	Cyanide	Metals					PCBs	SVOCs	VOCs	OA-1	OA-2						
SB-51	Z'	9/1/04	9:45	2	✓		✓							✓																							
SB-52	Z'		10:20	4	✓		✓							✓																							
SB-53	Z'		10:45	4	✓		✓							✓																							
SB-59	Z'		11:20	1	✓		✓							✓																							
SB-58	Z'		11:45	5	✓		✓							✓																							
SB-55	Z'		12:15	1	✓		✓							✓																							
SB-61	Z'		14:40	2	✓		✓							✓																							

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
 NO TAX ACCOUNT # 15404
 NEED TO COMPARE RESULTS TO
 IOWA LRP STATE WIDE STANDARD

Relinquished by:  Date: 9/1/04 Time: 18:45 Received by: _____ Date: _____ Time: _____
 Shipped Via: _____ Comments: _____ Shipped Via: _____
 Received for TestAmerica by: Angie Miller Date: 9-1-04 Time: 18:45 Temperature Upon Receipt: _____ Laboratory Comments: _____

Company:

Howard R. Green

Your PO #:

Send Report To:

CINDY QUAST

Invoice To:

HY26

Address:

8710 Earhart Lane SW, P.O. Box 9009

TA Quote #:

City/State/Zip Code:

Cedar Rapids, IA 52409-9009

Project Name:

CHAMBERLAIN

Telephone Number:

319-847-4000

Fax:

319-847-4012

Project Number:

72293023

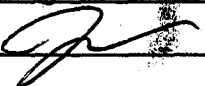
Sampled by: (Print Name)

JOE RYK

Project Manager:

CINDY QUAST

(Signature)



Proj. Mgr. Telephone:

(319) 841-4424

1 to the level
2 to the level
3 to the level

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative								Matrix					Analyze For:		RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report												
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	Cyanide					Metals	PCBs	SVOCs	VOCs	OA-1	OA-2						
SB-57 2'	9/1/04	15:00	1	✓			✓						✓																								
SB-66 2'		15:45	1	✓			✓						✓																								
SB-66 2'		15:45	4	✓			✓						✓	✓																							
SB-68 2'		16:20	2	✓			✓						✓																								
TB-3		09:00	2	✓			✓						✓																								

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
 NO TAX ACCOUNT # 15404
 NEED TO COMPARE RESULTS TO
 IOWA LRP STATEWIDE STANDARDS

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
	9/1/04	18:45						

Shipped Via:	Comments:	Shipped Via:

Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:
	9-1-04	1845		

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-1-04 Receiver's Initials AM Time (Delivered): 18:45

Temperature Record

Cooler ID# (If Applicable)

6 °C On Ice

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svcs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Samples(s) received within 6 hrs of sampling.
- Temperature not taken:

Log-In by:

JP MF EM

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job: 04.12006

Project Number: 722930J23
Project: Chamberlain

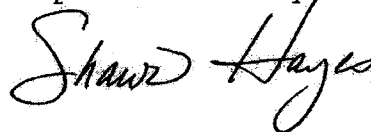
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
821129	SB-8 2'	08/30/2004	09/01/2004
821130	SB-12 2'	08/30/2004	09/01/2004
821131	SB-14 2'	08/30/2004	09/01/2004
821132	SB-16 2'	08/30/2004	09/01/2004
821133	SB-16R 2'	08/30/2004	09/01/2004
821134	SB-40 2'	08/30/2004	09/01/2004
821135	SB-40 14'	08/30/2004	09/01/2004
821136	SB-9 2'	08/31/2004	09/01/2004
821137	SB-11 2'	08/31/2004	09/01/2004
821138	SB-13 2'	08/31/2004	09/01/2004
821139	SB-38 2'	08/31/2004	09/01/2004
821140	SB-38 22'	08/31/2004	09/01/2004
821141	SB-50 2'	08/31/2004	09/01/2004
821142	SB-50 6'	08/31/2004	09/01/2004
821143	TB-1	08/30/2004	09/01/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821129	SB-8 2'					08/30/2004 13:30				
Solids, Total	95.17		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
BNA Soil 8270 MDL										
Acenaphthene	<0.066		mg/kg dw	0.066	0.199	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzenzidine	<0.10		mg/kg dw	0.10	0.309	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.037		mg/kg dw	0.037	0.110	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.039		mg/kg dw	0.039	0.117	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.154	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.154	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.085		mg/kg dw	0.085	0.255	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.136	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.082		mg/kg dw	0.082	0.246	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.078		mg/kg dw	0.078	0.233	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.034		mg/kg dw	0.034	0.10	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.090		mg/kg dw	0.090	0.271	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.151	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.109		mg/kg dw	0.109	0.328	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.074		mg/kg dw	0.074	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.058		mg/kg dw	0.058	0.173	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.032		mg/kg dw	0.032	0.095	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821129	SB-8 2'					08/30/2004 13:30				
Dibenzofuran	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.136	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.108		mg/kg dw	0.108	0.325	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.097		mg/kg dw	0.097	0.290	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.089		mg/kg dw	0.089	0.268	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.112		mg/kg dw	0.112	0.337	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.132	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.208	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.063		mg/kg dw	0.063	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.056		mg/kg dw	0.056	0.167	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.091	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.061		mg/kg dw	0.061	0.183	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.070		mg/kg dw	0.070	0.211	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.086		mg/kg dw	0.086	0.258	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.033		mg/kg dw	0.033	0.098	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.067		mg/kg dw	0.067	0.202	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.077		mg/kg dw	0.077	0.230	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.074		mg/kg dw	0.074	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.073		mg/kg dw	0.073	0.218	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.080		mg/kg dw	0.080	0.240	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.117		mg/kg dw	0.117	0.350	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821129	SB-8 2'					08/30/2004 13:30				
N-Nitrosodiphenylamine	<0.036		mg/kg dw	0.036	0.107	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.040		mg/kg dw	0.040	0.120	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.053		mg/kg dw	0.053	0.16	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.118		mg/kg dw	0.118	0.353	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.077		mg/kg dw	0.077	0.230	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	61		§			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	59	OOO	§			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	80		§			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.35		mg/kg dw	0.35	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.076		mg/kg dw	0.076	0.227	09/07/2004	ake	105	169	SW 8270C
3-chlorophenol	<0.090		mg/kg dw	0.090	0.271	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.082		mg/kg dw	0.082	0.246	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.084		mg/kg dw	0.084	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.166		mg/kg dw	0.166	0.498	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.078		mg/kg dw	0.078	0.233	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.066		mg/kg dw	0.066	0.199	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.088	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.110		mg/kg dw	0.110	0.331	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.118		mg/kg dw	0.118	0.353	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.208	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.073		mg/kg dw	0.073	0.218	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.057		mg/kg dw	0.057	0.170	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	68		§			09/07/2004	ake	105	169	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821129	SAMPLE DESCRIPTION SB-8 2'					DATE-TIME TAKEN 08/30/2004 13:30				
2-Fluorophenol (surr)	63		µ			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	84		µ			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.066	0.26	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	91		µ	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	79		µ	1	1	09/08/2004	kak	830	1876	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821130	SB-12 2'					08/30/2004 13:50				
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Solids, Total	96.24		µ	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	1.11		mg/kg dw	0.22	1.0	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	0.00382	B	mg/kg dw	0.00048	0.0054	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.054		g			09/02/2004	tdo	909		SW 3050 B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821130	SB-12 2'					08/30/2004 13:50				
ICP Metals Prep (Solid)	1.035		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	20		mg/kg dw	0.203	0.52	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.87	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	4.8		mg/kg dw	0.41	1.0	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	20.4		ug/kg dw	8.3	25	09/09/2004	mmk		1028	SW 8260B
Benzene	1.68		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.442		ug/kg dw	0.442	1.325	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821130	SB-12 2'								08/30/2004 13:50	
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.07		ug/kg dw	3.07	9.20	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	2.6		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	1.85		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/09/2004	mmk		1028	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821130	SB-12 2'								08/30/2004 13:50	
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/09/2004	mmk		1028	SW 8260B
MTBE	<4.94		ug/kg dw	4.94	14.8	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	1.93		ug/kg dw	0.68	2.03	09/11/2004	mmk		1033	SW 8260B
Toluene	2.71		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.27	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	44.7		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	1.0		ug/kg dw	0.46	1.39	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	96.1		‡			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	93.8		‡			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	94.6		‡			09/09/2004	mmk		1028	SW 8260B
BNA Soil 8270 MDL										

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821130	SB-12 2'					08/30/2004 13:50				
Acenaphthene	<0.064		mg/kg dw	0.064	0.194	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.182	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.121	09/07/2004	ake	105	169	SW 8270C
Benzydine	<0.10		mg/kg dw	0.10	0.302	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.108	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.114	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.152	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.152	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.041		mg/kg dw	0.041	0.121	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.083		mg/kg dw	0.083	0.250	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.133	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.080		mg/kg dw	0.080	0.241	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.076		mg/kg dw	0.076	0.229	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.099	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.088		mg/kg dw	0.088	0.265	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.149	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.121	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.107		mg/kg dw	0.107	0.321	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.169	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.092	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.145	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.133	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.106		mg/kg dw	0.106	0.318	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.095		mg/kg dw	0.095	0.284	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821130	SB-12 2'					08/30/2004 13:50				
1,4-Dichlorobenzene	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.110		mg/kg dw	0.110	0.330	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.145	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.130	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.145	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.068		mg/kg dw	0.068	0.204	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.111	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.163	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.089	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.179	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.207	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.084		mg/kg dw	0.084	0.254	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.096	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.182	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.197	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.225	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.182	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.213	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.114		mg/kg dw	0.114	0.343	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.105	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.085		mg/kg dw	0.085	0.257	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.117	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.052		mg/kg dw	0.052	0.16	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821130	SB-12 2'					08/30/2004 13:50				
Pyridine	<0.115		mg/kg dw	0.115	0.346	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.225	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	58		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	70		%			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	94		%			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.222	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.088		mg/kg dw	0.088	0.265	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.080		mg/kg dw	0.080	0.241	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.082		mg/kg dw	0.082	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.162		mg/kg dw	0.162	0.487	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.076		mg/kg dw	0.076	0.229	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.194	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.086	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.108		mg/kg dw	0.108	0.324	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.115		mg/kg dw	0.115	0.346	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.068		mg/kg dw	0.068	0.204	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.213	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.166	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	68		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	59		%			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	95		%			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/09/2004	kak	830	1879	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 821130	SAMPLE DESCRIPTION SB-12 2'					DATE-TIME TAKEN 08/30/2004 13:50					
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/09/2004	kak	830	1879	SW 8082	
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/09/2004	kak	830	1879	SW 8082	
Decachlorobiphenyl (Surr.)	99		%	1	1	09/09/2004	kak	830	1879	SW 8082	
Tetrachlorometaxylene (Surr.)	86		%	1	1	09/09/2004	kak	830	1879	SW 8082	

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
821131	SB-14 2'	08/30/2004 14:25
Solids, Total	94.67	%
Arsenic, (GFAA) mdl	0.974	mg/kg dw
Mercury, mdl	0.00723	B
GFAA Metals Digestion	1.069	g
ICP Metals Prep (Solid)	1.022	g
ICP Metals-Solid mdl		
Barium, (ICP) mdl	32	mg/kg dw
Cadmium, (ICP) mdl	0.93	mg/kg dw
Chromium, (ICP) mdl	4.9	mg/kg dw

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821131	SB-14 2'					08/30/2004 14:25				
Lead, (ICP) mdl	8.7		mg/kg dw	5.3	5.3	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.9		mg/kg dw	7.9	7.9	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.1	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
BNA Soil 8270 MDL										
Acenaphthene	<0.065		mg/kg dw	0.065	0.198	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.061		mg/kg dw	0.061	0.185	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.307	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	0.1		mg/kg dw	0.037	0.110	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	0.08		mg/kg dw	0.039	0.116	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	0.08		mg/kg dw	0.052	0.154	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	0.08		mg/kg dw	0.052	0.154	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	0.06		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.085		mg/kg dw	0.085	0.255	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.135	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.245	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.232	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.034		mg/kg dw	0.034	0.10	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.090		mg/kg dw	0.090	0.269	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.051		mg/kg dw	0.051	0.151	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.109		mg/kg dw	0.109	0.326	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.172	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821131	SB-14 2'					08/30/2004 14:25				
Chrysene	0.13		mg/kg dw	0.032	0.094	09/07/2004	ake	105	169	SW 8270C
Dibenzo (a, h) anthracene	<0.080		mg/kg dw	0.080	0.242	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.050		mg/kg dw	0.050	0.148	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.135	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.108		mg/kg dw	0.108	0.323	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.096		mg/kg dw	0.096	0.288	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.089		mg/kg dw	0.089	0.266	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.112		mg/kg dw	0.112	0.336	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.050		mg/kg dw	0.050	0.148	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.132	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.050		mg/kg dw	0.050	0.148	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.207	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.062		mg/kg dw	0.062	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	0.23		mg/kg dw	0.038	0.113	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.166	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.031		mg/kg dw	0.031	0.091	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.182	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.070		mg/kg dw	0.070	0.210	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.086		mg/kg dw	0.086	0.258	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	0.06		mg/kg dw	0.033	0.097	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.185	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.067		mg/kg dw	0.067	0.201	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.076		mg/kg dw	0.076	0.229	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.185	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.072		mg/kg dw	0.072	0.217	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821131	SB-14 2'					08/30/2004 14:25				
Nitrobenzene	<0.079		mg/kg dw	0.079	0.239	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.116		mg/kg dw	0.116	0.349	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.036		mg/kg dw	0.036	0.107	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.087		mg/kg dw	0.087	0.261	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	0.18		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
Pyrene	0.20		mg/kg dw	0.053	0.16	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.117		mg/kg dw	0.117	0.352	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.076		mg/kg dw	0.076	0.229	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	61		‰			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	65		‰			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	89		‰			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.35		mg/kg dw	0.35	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.075		mg/kg dw	0.075	0.226	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.090		mg/kg dw	0.090	0.269	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.245	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.165		mg/kg dw	0.165	0.495	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.232	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.065		mg/kg dw	0.065	0.198	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.030		mg/kg dw	0.030	0.088	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.110		mg/kg dw	0.110	0.330	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.117		mg/kg dw	0.117	0.352	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.207	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.080		mg/kg dw	0.080	0.242	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.242	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.072		mg/kg dw	0.072	0.217	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821131	SAMPLE DESCRIPTION SB-14 2'					DATE-TIME TAKEN 08/30/2004 14:25				
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.169	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	61		µ			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	55		µ			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	80		µ			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.031	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.052	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.067	0.26	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	86		µ	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	81		µ	1	1	09/08/2004	kak	830	1876	SW 8082

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821132	SAMPLE DESCRIPTION SB-16 2'					DATE-TIME TAKEN 08/30/2004 14:55				
Solids, Total	97.24		µ	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	0.799		mg/kg dw	0.22	1.0	09/07/2004	mrm	909	629	SW 7060A
Mercury, mdl	0.00416	B	mg/kg dw	0.00047	0.0053	09/03/2004	heh		2061	SW 7471A

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821132	SB-16 2'					08/30/2004 14:55				
GFAA Metals Digestion	1.099		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.091		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	25		mg/kg dw	0.201	0.51	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.86	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	3.5		mg/kg dw	0.40	1.0	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.1		mg/kg dw	5.1	5.1	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	COMPLETE					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.192	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.299	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.107	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.082		mg/kg dw	0.082	0.248	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.132	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.079		mg/kg dw	0.079	0.239	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.075		mg/kg dw	0.075	0.226	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.098	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821132	SB-16 2'					08/30/2004 14:55				
Bis(2chloroisopropyl) ether	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.147	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.106		mg/kg dw	0.106	0.318	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.168	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.092	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.132	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.105		mg/kg dw	0.105	0.315	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.094		mg/kg dw	0.094	0.281	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.259	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.109		mg/kg dw	0.109	0.327	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.129	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.202	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.110	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.053		mg/kg dw	0.053	0.161	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.088	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.177	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.205	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.083		mg/kg dw	0.083	0.251	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.095	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821132	SB-16 2'					08/30/2004 14:55				
Isophorone	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.195	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.074		mg/kg dw	0.074	0.223	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.211	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.077		mg/kg dw	0.077	0.232	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.113		mg/kg dw	0.113	0.339	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.104	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.084		mg/kg dw	0.084	0.254	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.116	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.114		mg/kg dw	0.114	0.342	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.074		mg/kg dw	0.074	0.223	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	71		‰			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	72		‰			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	87		‰			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.220	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.079		mg/kg dw	0.079	0.239	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.081		mg/kg dw	0.081	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.160		mg/kg dw	0.160	0.482	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.075		mg/kg dw	0.075	0.226	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.192	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.085	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821132	SB-16 2'					08/30/2004 14:55				
2-Methyl-4,6-dinitrophenol	<0.107		mg/kg dw	0.107	0.321	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.114		mg/kg dw	0.114	0.342	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.202	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.211	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.165	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	73		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	69		%			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	89		%			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
CB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.050	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.14	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	107		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	90		%	1	1	09/08/2004	kak	830	1876	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821133	SB-16R 2'					08/30/2004 15:10				
Solids, Total	97.37		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	0.844		mg/kg dw	0.22	1.0	09/07/2004	mrm	909	629	SW 7060A
Mercury, mdl	0.00351	B	mg/kg dw	0.00047	0.0053	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.117		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.014		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	26		mg/kg dw	0.200	0.51	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.86	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	3.7		mg/kg dw	0.40	1.0	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.1		mg/kg dw	5.1	5.1	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm		105	SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm		830	SW 3540
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.192	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.299	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.107	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.082		mg/kg dw	0.082	0.248	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/07/2004	ake	105	169	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821133	SB-16R 2'					08/30/2004 15:10				
Bis(2-chloroethyl) ether	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.075		mg/kg dw	0.075	0.226	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.098	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl) ether	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.147	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.106		mg/kg dw	0.106	0.317	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.055		mg/kg dw	0.055	0.167	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.091	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
Indenofuran	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.131	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.105		mg/kg dw	0.105	0.314	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.280	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.259	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.109		mg/kg dw	0.109	0.327	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.128	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.144	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.201	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.18	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.110	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.053		mg/kg dw	0.053	0.161	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.088	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.177	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821133	SB-16R 2'					08/30/2004 15:10				
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.204	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.083		mg/kg dw	0.083	0.251	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.094	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.195	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.074		mg/kg dw	0.074	0.223	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.180	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.211	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.077		mg/kg dw	0.077	0.232	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.113		mg/kg dw	0.113	0.339	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.104	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.084		mg/kg dw	0.084	0.254	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.116	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.114		mg/kg dw	0.114	0.342	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.074		mg/kg dw	0.074	0.223	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	66		‡			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	69		‡			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	89		‡			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.220	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.081		mg/kg dw	0.081	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.160		mg/kg dw	0.160	0.482	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821133	SB-16R 2'					08/30/2004 15:10				
2,4-Dichlorophenol	<0.075		mg/kg dw	0.075	0.226	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.192	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.085	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.107		mg/kg dw	0.107	0.320	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.114		mg/kg dw	0.114	0.342	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.201	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.078		mg/kg dw	0.078	0.235	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.211	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.054		mg/kg dw	0.054	0.164	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	67		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	65		%			09/07/2004	ake	105	169	SW 8270C
Bromophenol (surr)	85		%			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.050	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.14	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	111		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	95		%	1	1	09/08/2004	kak	830	1876	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 821134	SAMPLE DESCRIPTION SB-40 2'					DATE-TIME TAKEN 08/30/2004 15:40					
Cyanide, mdl	2.2	MSO	mg/kg dw	0.13	0.57	09/09/2004	tlz		868	SW 9012	
Solids, Total	87.74		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G	
SAMPLE NO. 821135	SAMPLE DESCRIPTION SB-40 14'					DATE-TIME TAKEN 08/30/2004 16:15					
Cyanide, mdl	<0.13		mg/kg dw	0.13	0.61	09/09/2004	tlz		868	SW 9012	
Solids, Total	82.43		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G	
SAMPLE NO. 821136	SAMPLE DESCRIPTION SB-9 2'					DATE-TIME TAKEN 08/31/2004 15:50					
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035	
Solids, Total	95.83		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G	
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540	
VOA 8260 NON-AQUEOUS LRL											
Acetone	<8.3		ug/kg dw	8.3	25	09/09/2004	mmk		1028	SW 8260B	
Benzene	1.16		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B	

MSO - MS and/or MSD recoveries are outside of control limits

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
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09/14/2004

TestAmerica Job Number: 04.12006

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821136	SB-9 2'					08/31/2004 15:50				
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.35		ug/kg dw	2.35	7.04	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.50		ug/kg dw	3.50	10.4	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.11		ug/kg dw	5.11	15.1	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.09	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.443		ug/kg dw	0.443	1.330	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.38	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.08		ug/kg dw	3.08	9.24	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821136	SB-9 2'								08/31/2004 15:50	
1,1-Dichloroethene	<0.350		ug/kg dw	0.350	1.04	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.50	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	0.87		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.03		ug/kg dw	3.03	9.08	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.09	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.09	09/09/2004	mmk		1028	SW 8260B
MTBE	<4.96		ug/kg dw	4.96	14.8	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.63	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
Toluene	1.50		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821136	SB-9 2'					08/31/2004 15:50				
1,1,1-Trichloroethane	4.77		ug/kg dw	1.10	3.29	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	41.9		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	1.20		ug/kg dw	0.46	1.40	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	96		%			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	94		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	94		%			09/09/2004	mmk		1028	SW 8260B
CB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.066	0.26	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	98		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	90		%	1	1	09/08/2004	kak	830	1876	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821137	SB-11 2'					08/31/2004 16:10				
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Solids, Total	91.64		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	22.3		ug/kg dw	8.7	26	09/09/2004	mmk		1028	SW 8260B
Benzene	2.03		ug/kg dw	0.60	1.80	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.76		ug/kg dw	0.76	2.29	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.11	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.46		ug/kg dw	2.46	7.37	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.66		ug/kg dw	3.66	10.9	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.35		ug/kg dw	5.35	15.8	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.93		ug/kg dw	0.93	2.18	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.5		ug/kg dw	0.51	5.5	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.5		ug/kg dw	1.58	5.5	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.5		ug/kg dw	0.5	5.5	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.5		ug/kg dw	6.5	19.6	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.464		ug/kg dw	0.464	1.391	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.53		ug/kg dw	1.53	4.58	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.76		ug/kg dw	0.76	2.29	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.93		ug/kg dw	0.93	2.78	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.71		ug/kg dw	0.71	2.13	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.60		ug/kg dw	0.60	1.80	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	33	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.22		ug/kg dw	3.22	9.66	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.82		ug/kg dw	0.82	2.46	09/09/2004	mmk		1028	SW 8260B

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821137	SB-11 2'					08/31/2004 16:10				
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.71		ug/kg dw	0.71	2.13	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.11	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.87		ug/kg dw	0.87	2.6	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.6	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.366		ug/kg dw	0.366	1.09	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.11	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.82		ug/kg dw	0.82	2.46	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.47		ug/kg dw	0.47	1.41	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.93		ug/kg dw	0.93	2.78	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.39		ug/kg dw	0.39	1.18	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloropropene	<0.93		ug/kg dw	0.93	2.78	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.87		ug/kg dw	0.87	2.62	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.46	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	0.80		ug/kg dw	0.60	1.80	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.16		ug/kg dw	3.16	9.49	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.60		ug/kg dw	0.60	2.18	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.39		ug/kg dw	0.39	1.18	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<55		ug/kg dw	7.6	55	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.76		ug/kg dw	0.76	2.18	09/09/2004	mmk		1028	SW 8260B
MTBE	<5.18		ug/kg dw	5.18	15.5	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.5		ug/kg dw	0.87	5.5	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.5		ug/kg dw	0.60	5.5	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.41		ug/kg dw	0.41	1.24	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821137	SB-11 2'					08/31/2004 16:10				
1,1,1,2-Tetrachloroethane	<1.96		ug/kg dw	1.96	5.89	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.6	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	<0.71		ug/kg dw	0.71	2.13	09/09/2004	mmk		1028	SW 8260B
Toluene	1.88		ug/kg dw	0.76	2.29	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.5		ug/kg dw	1.7	5.5	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.5		ug/kg dw	0.35	5.5	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	1.25		ug/kg dw	1.15	3.44	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.9	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	4.54		ug/kg dw	1.0	3.11	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	0.48		ug/kg dw	0.48	1.46	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.98		ug/kg dw	0.98	2.9	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.5		ug/kg dw	1.5	5.5	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.5		ug/kg dw	2.5	5.5	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.82		ug/kg dw	0.82	2.46	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.5		ug/kg dw	1.7	5.5	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	98		§			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	94		§			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	96		§			09/09/2004	mmk		1028	SW 8260B
PCB's Non-Aqueous										
PCB-1016	<0.27		mg/kg dw	0.16	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.27		mg/kg dw	0.21	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.27		mg/kg dw	0.032	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.27		mg/kg dw	0.053	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.27		mg/kg dw	0.021	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.27		mg/kg dw	0.027	0.27	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.27		mg/kg dw	0.15	0.27	09/08/2004	kak	830	1876	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO. 821137 SAMPLE DESCRIPTION SB-11 2'

DATE-TIME TAKEN 08/31/2004 16:10

PCB-1268	<0.27		mg/kg dw	0.069	0.27	09/08/2004	kak	830	1876	SW 8082
Decachlorobiphenyl (Surr.)	52		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	53		%	1	1	09/08/2004	kak	830	1876	SW 8082

SAMPLE NO. 821138 SAMPLE DESCRIPTION SB-13 2'

DATE-TIME TAKEN 08/31/2004 16:25

5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Solids, Total	94.72		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	1.73		mg/kg dw	0.22	1.1	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	0.01332	B	mg/kg dw	0.00049	0.0055	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.083		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.106		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	34		mg/kg dw	0.206	0.53	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	0.53		mg/kg dw	0.25	0.89	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	27		mg/kg dw	0.41	1.1	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.3		mg/kg dw	5.3	5.3	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.9		mg/kg dw	7.9	7.9	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.1	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821138	SB-13 2'					08/31/2004 16:25				
VOA 8260 NON-AQUEOUS LRL										
Acetone	21.7		ug/kg dw	8.4	25	09/09/2004	mmk		1028	SW 8260B
Benzene	1.83		ug/kg dw	0.58	1.74	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.74		ug/kg dw	0.74	2.22	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.01	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.38		ug/kg dw	2.38	7.13	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.54		ug/kg dw	3.54	10.6	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.17		ug/kg dw	5.17	15.3	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.90		ug/kg dw	0.90	2.11	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.3		ug/kg dw	0.50	5.3	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.53	5.3	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	19.0	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.449		ug/kg dw	0.449	1.346	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.48		ug/kg dw	1.48	4.43	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.74		ug/kg dw	0.74	2.22	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.90		ug/kg dw	0.90	2.69	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.69		ug/kg dw	0.69	2.06	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.74	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.11		ug/kg dw	3.11	9.34	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.38	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.69		ug/kg dw	0.69	2.06	09/09/2004	mmk		1028	SW 8260B

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821138	SB-13 2'								08/31/2004 16:25	
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.01	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.354		ug/kg dw	0.354	1.06	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.01	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.38	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.36	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.90		ug/kg dw	0.90	2.69	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.14	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.90		ug/kg dw	0.90	2.69	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.53	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.38	09/09/2004	mmk		1028	SW 8260B
Benzylbenzene	1.33		ug/kg dw	0.58	1.74	09/09/2004	mmk		1028	SW 8260B
dexachlorobutadiene	<3.06		ug/kg dw	3.06	9.18	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.11	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.14	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<53		ug/kg dw	7.4	53	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.74		ug/kg dw	0.74	2.11	09/09/2004	mmk		1028	SW 8260B
MTBE	<5.01		ug/kg dw	5.01	15.0	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.3		ug/kg dw	0.84	5.3	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.58	5.3	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.20	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.90		ug/kg dw	1.90	5.70	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	0.97		ug/kg dw	0.69	2.06	09/11/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821138	SB-13 2'					08/31/2004 16:25				
Toluene	2.77		ug/kg dw	0.74	2.22	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	10.9		ug/kg dw	1.11	3.33	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	6.73		ug/kg dw	1.0	3.01	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	0.76		ug/kg dw	0.46	1.41	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.95		ug/kg dw	0.95	2.9	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.38	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	95.5		§			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	95.7		§			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	94.7		§			09/09/2004	mmk		1028	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.34		mg/kg dw	0.34	0.998	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.32		mg/kg dw	0.32	0.934	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.618	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.52		mg/kg dw	0.52	1.55	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.554	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.586	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.776	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.776	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.618	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.42		mg/kg dw	0.42	1.29	09/07/2004	ake	105	169	SW 8270C

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
821138	SB-13 2'								08/31/2004 16:25	
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.681	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.41		mg/kg dw	0.41	1.24	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.39		mg/kg dw	0.39	1.17	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.51	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.36	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.760	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.618	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.549		mg/kg dw	0.549	1.65	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.37		mg/kg dw	0.37	1.1	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.30		mg/kg dw	0.30	0.871	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.48	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.40		mg/kg dw	0.40	1.22	09/07/2004	ake	105	169	SW 8270C
Indenzofuran	<0.25		mg/kg dw	0.25	0.744	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.681	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.544		mg/kg dw	0.544	1.63	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.49		mg/kg dw	0.49	1.46	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.44		mg/kg dw	0.44	1.35	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.565		mg/kg dw	0.565	1.69	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.744	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.665	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.744	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.35		mg/kg dw	0.35	1.05	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.32		mg/kg dw	0.32	0.95	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.570	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.27		mg/kg dw	0.27	0.839	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.46	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821138	SB-13 2'					08/31/2004 16:25				
Hexachlorocyclopentadiene	<0.31		mg/kg dw	0.31	0.918	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.36		mg/kg dw	0.36	1.06	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.43		mg/kg dw	0.43	1.30	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.49	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.32		mg/kg dw	0.32	0.934	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.34		mg/kg dw	0.34	1.01	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.38		mg/kg dw	0.38	1.16	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.37		mg/kg dw	0.37	1.1	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.32		mg/kg dw	0.32	0.934	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.36		mg/kg dw	0.36	1.10	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.40		mg/kg dw	0.40	1.20	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.586		mg/kg dw	0.586	1.75	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.538	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.44		mg/kg dw	0.44	1.31	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.602	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.26		mg/kg dw	0.26	0.79	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.591		mg/kg dw	0.591	1.77	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.38		mg/kg dw	0.38	1.16	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	61		‰			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	68		‰			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	85		‰			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.3	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.38		mg/kg dw	0.38	1.14	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.45		mg/kg dw	0.45	1.36	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.41		mg/kg dw	0.41	1.24	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.42		mg/kg dw	0.42	1.3	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821138	SB-13 2'					08/31/2004 16:25				
Cresols, Total	<0.834		mg/kg dw	0.834	2.50	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.39		mg/kg dw	0.39	1.17	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.34		mg/kg dw	0.34	0.998	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.44	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.554		mg/kg dw	0.554	1.67	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.591		mg/kg dw	0.591	1.77	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.35		mg/kg dw	0.35	1.05	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.40		mg/kg dw	0.40	1.22	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.40		mg/kg dw	0.40	1.22	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.36		mg/kg dw	0.36	1.10	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.29		mg/kg dw	0.29	0.855	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	66		µ			09/07/2004	ake	105	169	SW 8270C
-Fluorophenol (surr)	56		µ			09/07/2004	ake	105	169	SW 8270C
tribromophenol (surr)	88		µ			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<1		mg/kg dw	0.8	1	09/09/2004	kak	830	1877	SW 8082
PCB-1221	<1		mg/kg dw	1	1	09/09/2004	kak	830	1877	SW 8082
PCB-1232	<1		mg/kg dw	0.2	1	09/09/2004	kak	830	1877	SW 8082
PCB-1242	<1		mg/kg dw	0.3	1	09/09/2004	kak	830	1877	SW 8082
PCB-1248	<1		mg/kg dw	0.1	1	09/09/2004	kak	830	1877	SW 8082
PCB-1254	1.1		mg/kg dw	0.1	1	09/09/2004	kak	830	1877	SW 8082
PCB-1260	<1		mg/kg dw	0.8	1	09/09/2004	kak	830	1877	SW 8082
PCB-1268	<1		mg/kg dw	0.3	1	09/09/2004	kak	830	1877	SW 8082
Decachlorobiphenyl (Surr.)	84		µ	1	1	09/09/2004	kak	830	1877	SW 8082
Tetrachlorometaxylene (Surr.)	67		µ	1	1	09/09/2004	kak	830	1877	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821139	SB-38 2'					08/31/2004 10:45				
Cyanide, mdl	0.29		mg/kg dw	0.12	0.53	09/09/2004	tlz		868	SW 9012
Solids, Total	94.99		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/03/2004	acm	830		SW 3540
BNA Soil 8270 MDL										
Acenaphthene	<0.066		mg/kg dw	0.066	0.199	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.310	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	0.09		mg/kg dw	0.037	0.111	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	0.08		mg/kg dw	0.039	0.117	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	0.08		mg/kg dw	0.052	0.155	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	0.08		mg/kg dw	0.052	0.155	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	0.06		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.085		mg/kg dw	0.085	0.256	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.136	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.082		mg/kg dw	0.082	0.246	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.078		mg/kg dw	0.078	0.234	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.034		mg/kg dw	0.034	0.10	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.091		mg/kg dw	0.091	0.272	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.051		mg/kg dw	0.051	0.152	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.123	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.109		mg/kg dw	0.109	0.328	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.074		mg/kg dw	0.074	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.058		mg/kg dw	0.058	0.174	09/07/2004	ake	105	169	SW 8270C
Chrysene	0.11		mg/kg dw	0.032	0.095	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821139	SB-38 2'					08/31/2004 10:45				
Dibenzo (a, h) anthracene	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.136	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.108		mg/kg dw	0.108	0.325	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.097		mg/kg dw	0.097	0.291	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.089		mg/kg dw	0.089	0.268	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.113		mg/kg dw	0.113	0.338	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.133	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.148	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.208	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.063		mg/kg dw	0.063	0.19	09/07/2004	ake	105	169	SW 8270C
fluoranthene	0.22		mg/kg dw	0.038	0.114	09/07/2004	ake	105	169	SW 8270C
fluorene	<0.056		mg/kg dw	0.056	0.167	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.031		mg/kg dw	0.031	0.092	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.061		mg/kg dw	0.061	0.183	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.071		mg/kg dw	0.071	0.212	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.086		mg/kg dw	0.086	0.259	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	0.06		mg/kg dw	0.033	0.098	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.067		mg/kg dw	0.067	0.202	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.074		mg/kg dw	0.074	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.062		mg/kg dw	0.062	0.186	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.073		mg/kg dw	0.073	0.218	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.080		mg/kg dw	0.080	0.240	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821139	SB-38 2'					08/31/2004 10:45				
N-Nitrosodimethylamine	<0.117		mg/kg dw	0.117	0.351	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.036		mg/kg dw	0.036	0.107	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.087		mg/kg dw	0.087	0.262	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	0.12		mg/kg dw	0.040	0.120	09/07/2004	ake	105	169	SW 8270C
Pyrene	0.18		mg/kg dw	0.053	0.16	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.118		mg/kg dw	0.118	0.354	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	55	OOO	‡			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	66		‡			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	85		‡			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.35		mg/kg dw	0.35	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.076		mg/kg dw	0.076	0.227	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.091		mg/kg dw	0.091	0.272	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.082		mg/kg dw	0.082	0.246	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.084		mg/kg dw	0.084	0.25	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.166		mg/kg dw	0.166	0.499	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.078		mg/kg dw	0.078	0.234	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.066		mg/kg dw	0.066	0.199	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.088	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.111		mg/kg dw	0.111	0.332	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.118		mg/kg dw	0.118	0.354	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.208	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.073		mg/kg dw	0.073	0.218	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.057		mg/kg dw	0.057	0.171	09/07/2004	ake	105	169	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821139	SAMPLE DESCRIPTION SB-38 2'					DATE-TIME TAKEN 08/31/2004 10:45				
Phenol-d6 (surr)	61		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	52	OOO	%			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	84		%			09/07/2004	ake	105	169	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1232	<0.26		mg/kg dw	0.031	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1242	<0.26		mg/kg dw	0.052	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/08/2004	kak	830	1876	SW 8082
PCB-1268	<0.26		mg/kg dw	0.066	0.26	09/08/2004	kak	830	1876	SW 8082
Polychlorobiphenyl (Surr.)	96		%	1	1	09/08/2004	kak	830	1876	SW 8082
Tetrachlorometaxylene (Surr.)	86		%	1	1	09/08/2004	kak	830	1876	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	96.29		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
VOA 8260 NON-AQUEOUS LRL										
Acetone	8.45		ug/kg dw	8.3	25	09/09/2004	mmk		1028	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
thylbenzene	<0.57		ug/kg dw	0.57	1.71	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/09/2004	mmk		1028	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	6.04		ug/kg dw	0.68	2.03	09/11/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
Toluene	<0.73		ug/kg dw	0.73	2.18	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	1.50		ug/kg dw	1.09	3.27	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	<0.99		ug/kg dw	0.99	2.96	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	93.1		%			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	93.3		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	93.8		%			09/09/2004	mmk		1028	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.065		mg/kg dw	0.065	0.196	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.061		mg/kg dw	0.061	0.184	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.305	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.109	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.115	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.153	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.153	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.041		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.084		mg/kg dw	0.084	0.252	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.134	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.10	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.089		mg/kg dw	0.089	0.268	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.108		mg/kg dw	0.108	0.324	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.171	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.093	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.080		mg/kg dw	0.080	0.240	09/07/2004	ake	105	169	SW 8270C
Indenzofuran	<0.049		mg/kg dw	0.049	0.146	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.134	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.107		mg/kg dw	0.107	0.321	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.096		mg/kg dw	0.096	0.287	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.088		mg/kg dw	0.088	0.265	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.111		mg/kg dw	0.111	0.333	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.146	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.146	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.206	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.062		mg/kg dw	0.062	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.112	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.165	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.090	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.181	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.070		mg/kg dw	0.070	0.209	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.085		mg/kg dw	0.085	0.255	09/07/2004	ake	105	169	SW 8270C
Indeno (1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.097	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.184	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.066		mg/kg dw	0.066	0.199	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.076		mg/kg dw	0.076	0.227	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.184	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.072		mg/kg dw	0.072	0.215	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.079		mg/kg dw	0.079	0.237	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.115		mg/kg dw	0.115	0.346	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.106	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.086		mg/kg dw	0.086	0.259	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.118	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.052		mg/kg dw	0.052	0.16	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.116		mg/kg dw	0.116	0.349	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.076		mg/kg dw	0.076	0.227	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	74		‰			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	72		‰			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	91		‰			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.075		mg/kg dw	0.075	0.224	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.089		mg/kg dw	0.089	0.268	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.243	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821140	SB-38 22'					08/31/2004 11:40				
Cresols, Total	<0.164		mg/kg dw	0.164	0.492	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.065		mg/kg dw	0.065	0.196	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.087	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.109		mg/kg dw	0.109	0.327	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.116		mg/kg dw	0.116	0.349	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.206	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.080		mg/kg dw	0.080	0.240	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.240	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.072		mg/kg dw	0.072	0.215	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.168	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	79		‰			09/07/2004	ake	105	169	SW 8270C
Fluorophenol (surr)	75		‰			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	92		‰			09/07/2004	ake	105	169	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	95.90		‰	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	0.956		mg/kg dw	0.22	1.0	09/07/2004	mrn	909	629	SW 7060A

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
Mercury, mdl	0.00686	B	mg/kg dw	0.00048	0.0054	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.098		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.024		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	29		mg/kg dw	0.203	0.52	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.88	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	4.6		mg/kg dw	0.41	1.0	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	19.2		ug/kg dw	8.3	25	09/09/2004	mmk		1028	SW 8260B
Benzene	1.07		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.35		ug/kg dw	2.35	7.04	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.49		ug/kg dw	3.49	10.4	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.11		ug/kg dw	5.11	15.1	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.09	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/09/2004	mmk		1028	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.443		ug/kg dw	0.443	1.330	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.38	09/09/2004	mmk		1028	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.08		ug/kg dw	3.08	9.23	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.349		ug/kg dw	0.349	1.04	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.50	09/09/2004	mmk		1028	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	0.72		ug/kg dw	0.57	1.72	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.02		ug/kg dw	3.02	9.07	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.09	09/09/2004	mmk		1028	SW 8260B

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.09	09/09/2004	mmk		1028	SW 8260B
MTBE	<4.95		ug/kg dw	4.95	14.8	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.63	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	<0.68		ug/kg dw	0.68	2.03	09/09/2004	mmk		1028	SW 8260B
Toluene	1.52		ug/kg dw	0.73	2.19	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.28	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	1.88		ug/kg dw	0.99	2.97	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.35	09/09/2004	mmk		1028	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	96		‡			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	94		‡			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	93		‡			09/09/2004	mmk		1028	SW 8260B

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO. 821141
 SAMPLE DESCRIPTION SB-50 2'

DATE-TIME TAKEN
 08/31/2004 15:50

BNA Soil 8270 MDL										
Acenaphthene	<0.066		mg/kg dw	0.066	0.197	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.062		mg/kg dw	0.062	0.185	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.307	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	0.14		mg/kg dw	0.036	0.109	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	0.14		mg/kg dw	0.039	0.116	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	0.11		mg/kg dw	0.051	0.153	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	0.13		mg/kg dw	0.051	0.153	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	0.09		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.084		mg/kg dw	0.084	0.253	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.135	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.244	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.10	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.090		mg/kg dw	0.090	0.269	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.150	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.122	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.108		mg/kg dw	0.108	0.325	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.172	09/07/2004	ake	105	169	SW 8270C
Chrysene	0.16		mg/kg dw	0.031	0.094	09/07/2004	ake	105	169	SW 8270C
Dibenzo(a,h)anthracene	<0.080		mg/kg dw	0.080	0.241	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.147	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.135	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.107		mg/kg dw	0.107	0.322	09/07/2004	ake	105	169	SW 8270C

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
1,3-Dichlorobenzene	<0.096		mg/kg dw	0.096	0.288	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.089		mg/kg dw	0.089	0.266	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.112		mg/kg dw	0.112	0.335	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.147	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.147	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.206	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.063		mg/kg dw	0.063	0.19	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	0.26		mg/kg dw	0.038	0.113	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.166	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.091	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.181	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.070		mg/kg dw	0.070	0.210	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.086		mg/kg dw	0.086	0.257	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	0.09		mg/kg dw	0.032	0.097	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.062		mg/kg dw	0.062	0.185	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.067		mg/kg dw	0.067	0.200	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.076		mg/kg dw	0.076	0.228	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.073		mg/kg dw	0.073	0.22	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.062		mg/kg dw	0.062	0.185	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.072		mg/kg dw	0.072	0.216	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.079		mg/kg dw	0.079	0.238	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodimethylamine	<0.116		mg/kg dw	0.116	0.347	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.106	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.087		mg/kg dw	0.087	0.260	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	0.10		mg/kg dw	0.040	0.119	09/07/2004	ake	105	169	SW 8270C

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821141	SB-50 2'					08/31/2004 15:50				
Pyrene	0.22		mg/kg dw	0.052	0.16	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.117		mg/kg dw	0.117	0.350	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.076		mg/kg dw	0.076	0.228	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	59		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	60	OOO	%			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	88		%			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.075		mg/kg dw	0.075	0.225	09/07/2004	ake	105	169	SW 8270C
2-chlorophenol	<0.090		mg/kg dw	0.090	0.269	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.244	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/07/2004	ake	105	169	SW 8270C
Resols, Total	<0.165		mg/kg dw	0.165	0.494	09/07/2004	ake	105	169	SW 8270C
4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.231	09/07/2004	ake	105	169	SW 8270C
4,4-Dimethylphenol	<0.066		mg/kg dw	0.066	0.197	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.088	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.109		mg/kg dw	0.109	0.328	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.117		mg/kg dw	0.117	0.350	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.206	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.080		mg/kg dw	0.080	0.241	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.241	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.072		mg/kg dw	0.072	0.216	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.169	09/07/2004	ake	105	169	SW 8270C
Phenol-d6 (surr)	67		%			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	60		%			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	59	OOO	%			09/07/2004	ake	105	169	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
5035 VOC Preservation	x					09/02/2004	rlb		7	SW 846 - 5035
Cyanide, mdl	<0.12		mg/kg dw	0.12	0.53	09/09/2004	tlz		868	SW 9012
Solids, Total	94.11		%	0.01	0.01	09/01/2004	sas		2740	SM 2540 G
Arsenic, (GFAA) mdl	0.767		mg/kg dw	0.22	1.1	09/07/2004	mrn	909	629	SW 7060A
Mercury, mdl	0.00257	B	mg/kg dw	0.00049	0.0055	09/03/2004	heh		2061	SW 7471A
GFAA Metals Digestion	1.065		g			09/02/2004	tdo	909		SW 3050 B
ICP Metals Prep (Solid)	1.090		g			09/02/2004	tdo	1501		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	32		mg/kg dw	0.207	0.53	09/02/2004	llw	1501	2793	SW 6010B
Cadmium, (ICP) mdl	<0.26		mg/kg dw	0.26	0.89	09/02/2004	llw	1501	2799	SW 6010B
Chromium, (ICP) mdl	4.1		mg/kg dw	0.41	1.1	09/02/2004	llw	1501	2798	SW 6010B
Lead, (ICP) mdl	<5.3		mg/kg dw	5.3	5.3	09/02/2004	llw	1501	2815	SW 6010B
Selenium, (ICP) mdl	<8.0		mg/kg dw	8.0	8.0	09/02/2004	llw	1501	2792	SW 6010B
Silver, (ICP) mdl	<0.61		mg/kg dw	0.61	1.1	09/02/2004	llw	1501	627	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/01/2004	acm	105		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	26.9		ug/kg dw	8.5	26	09/09/2004	mmk		1028	SW 8260B
Benzene	0.66		ug/kg dw	0.58	1.75	09/09/2004	mmk		1028	SW 8260B
Bromobenzene	<0.74		ug/kg dw	0.74	2.23	09/09/2004	mmk		1028	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
Bromodichloromethane	<2.39		ug/kg dw	2.39	7.17	09/09/2004	mmk		1028	SW 8260B
Bromoform	<3.56		ug/kg dw	3.56	10.6	09/09/2004	mmk		1028	SW 8260B
Bromomethane	<5.21		ug/kg dw	5.21	15.4	09/09/2004	mmk		1028	SW 8260B
Methyl ethyl ketone (MEK)	<0.90		ug/kg dw	0.90	2.13	09/09/2004	mmk		1028	SW 8260B
n-Butylbenzene	<5.3		ug/kg dw	0.50	5.3	09/09/2004	mmk		1028	SW 8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.54	5.3	09/09/2004	mmk		1028	SW 8260B

B - This analyte was detected in the method blank.

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09/14/2004

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/09/2004	mmk		1028	SW 8260B
Carbon tetrachloride	<6.4		ug/kg dw	6.4	19.1	09/09/2004	mmk		1028	SW 8260B
Chlorobenzene	<0.452		ug/kg dw	0.452	1.355	09/09/2004	mmk		1028	SW 8260B
Chlorodibromomethane	<1.49		ug/kg dw	1.49	4.46	09/09/2004	mmk		1028	SW 8260B
Chloroethane	<0.74		ug/kg dw	0.74	2.23	09/09/2004	mmk		1028	SW 8260B
Chloroform	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
2-Chlorotoluene	<0.69		ug/kg dw	0.69	2.07	09/09/2004	mmk		1028	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.75	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/09/2004	mmk		1028	SW 8260B
1,2-Dibromoethane (EDB)	<3.13		ug/kg dw	3.13	9.40	09/09/2004	mmk		1028	SW 8260B
Dibromomethane	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,4-Dichlorobenzene	<0.69		ug/kg dw	0.69	2.07	09/09/2004	mmk		1028	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethane	<0.85		ug/kg dw	0.85	2.6	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
1,1-Dichloroethene	<0.356		ug/kg dw	0.356	1.06	09/09/2004	mmk		1028	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
trans-1,2-Dichloroethene	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
1,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.37	09/09/2004	mmk		1028	SW 8260B
1,3-Dichloropropane	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.15	09/09/2004	mmk		1028	SW 8260
1,1-Dichloropropene	<0.90		ug/kg dw	0.90	2.71	09/09/2004	mmk		1028	SW 8260B
cis-1,3-Dichloropropene	<0.85		ug/kg dw	0.85	2.55	09/09/2004	mmk		1028	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
trans-1,3-Dichloropropene	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B
Ethylbenzene	<0.58		ug/kg dw	0.58	1.75	09/09/2004	mmk		1028	SW 8260B
Hexachlorobutadiene	<3.08		ug/kg dw	3.08	9.24	09/09/2004	mmk		1028	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.13	09/09/2004	mmk		1028	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.15	09/09/2004	mmk		1028	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/09/2004	mmk		1028	SW 8260B
Methylene chloride	<53		ug/kg dw	7.4	53	09/09/2004	mmk		1028	SW 8260B
Methyl isobutyl ketone	<0.74		ug/kg dw	0.74	2.13	09/09/2004	mmk		1028	SW 8260B
MTBE	<5.05		ug/kg dw	5.05	15.1	09/09/2004	mmk		1028	SW 8260B
Naphthalene	<5.3		ug/kg dw	0.85	5.3	09/09/2004	mmk		1028	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.58	5.3	09/09/2004	mmk		1028	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.21	09/09/2004	mmk		1028	SW 8260B
1,1,1,2-Tetrachloroethane	<1.91		ug/kg dw	1.91	5.74	09/09/2004	mmk		1028	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/09/2004	mmk		1028	SW 8260B
Tetrachloroethene	<0.69		ug/kg dw	0.69	2.07	09/09/2004	mmk		1028	SW 8260B
Toluene	<0.74		ug/kg dw	0.74	2.23	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/09/2004	mmk		1028	SW 8260B
1,1,1-Trichloroethane	<1.12		ug/kg dw	1.12	3.35	09/09/2004	mmk		1028	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/09/2004	mmk		1028	SW 8260B
Trichloroethylene	<1.0		ug/kg dw	1.0	3.03	09/09/2004	mmk		1028	SW 8260B
Trichlorofluoromethane	<0.47		ug/kg dw	0.47	1.42	09/09/2004	mmk		1028	SW 8260B
1,2,3-Trichloropropane	<0.96		ug/kg dw	0.96	2.9	09/09/2004	mmk		1028	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/09/2004	mmk		1028	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/09/2004	mmk		1028	SW 8260B
Vinyl Chloride	<0.80		ug/kg dw	0.80	2.39	09/09/2004	mmk		1028	SW 8260B

Cindy Quast
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 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
Xylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/09/2004	mmk		1028	SW 8260B
4-Bromofluorobenzene (surr)	101		%			09/09/2004	mmk		1028	SW 8260B
Dibromofluoromethane (surr)	98		%			09/09/2004	mmk		1028	SW 8260B
Toluene-d8 (surr)	92		%			09/09/2004	mmk		1028	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.34		mg/kg dw	0.34	1.00	09/07/2004	ake	105	169	SW 8270C
Acenaphthylene	<0.32		mg/kg dw	0.32	0.940	09/07/2004	ake	105	169	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.622	09/07/2004	ake	105	169	SW 8270C
Benzidine	<0.52		mg/kg dw	0.52	1.56	09/07/2004	ake	105	169	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.558	09/07/2004	ake	105	169	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.590	09/07/2004	ake	105	169	SW 8270C
Benzo(k)fluoranthene	<0.26		mg/kg dw	0.26	0.781	09/07/2004	ake	105	169	SW 8270C
Benzo(a)pyrene	<0.26		mg/kg dw	0.26	0.781	09/07/2004	ake	105	169	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.622	09/07/2004	ake	105	169	SW 8270C
Benzyl alcohol	<0.43		mg/kg dw	0.43	1.30	09/07/2004	ake	105	169	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.685	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethyl)ether	<0.41		mg/kg dw	0.41	1.24	09/07/2004	ake	105	169	SW 8270C
Bis(2-chloroethoxy)methane	<0.39		mg/kg dw	0.39	1.18	09/07/2004	ake	105	169	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.51	09/07/2004	ake	105	169	SW 8270C
Bis(2chloroisopropyl)ether	<0.46		mg/kg dw	0.46	1.37	09/07/2004	ake	105	169	SW 8270C
4-Bromophenyl phenyl ether	<0.26		mg/kg dw	0.26	0.765	09/07/2004	ake	105	169	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.622	09/07/2004	ake	105	169	SW 8270C
4-Chloroaniline	<0.553		mg/kg dw	0.553	1.66	09/07/2004	ake	105	169	SW 8270C
2-Chloronaphthalene	<0.37		mg/kg dw	0.37	1.1	09/07/2004	ake	105	169	SW 8270C
4-Chlorophenylphenyl ether	<0.30		mg/kg dw	0.30	0.877	09/07/2004	ake	105	169	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.48	09/07/2004	ake	105	169	SW 8270C

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
Dibenzo(a,h)anthracene	<0.40		mg/kg dw	0.40	1.23	09/07/2004	ake	105	169	SW 8270C
Dibenzofuran	<0.26		mg/kg dw	0.26	0.749	09/07/2004	ake	105	169	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.685	09/07/2004	ake	105	169	SW 8270C
1,2-Dichlorobenzene	<0.547		mg/kg dw	0.547	1.64	09/07/2004	ake	105	169	SW 8270C
1,3-Dichlorobenzene	<0.49		mg/kg dw	0.49	1.47	09/07/2004	ake	105	169	SW 8270C
1,4-Dichlorobenzene	<0.45		mg/kg dw	0.45	1.36	09/07/2004	ake	105	169	SW 8270C
3,3-Dichlorobenzidine	<0.568		mg/kg dw	0.568	1.70	09/07/2004	ake	105	169	SW 8270C
Diethyl phthalate	<0.26		mg/kg dw	0.26	0.749	09/07/2004	ake	105	169	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.669	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrotoluene	<0.26		mg/kg dw	0.26	0.749	09/07/2004	ake	105	169	SW 8270C
2,6-Dinitrotoluene	<0.35		mg/kg dw	0.35	1.05	09/07/2004	ake	105	169	SW 8270C
Di-n-octylphthalate	<0.32		mg/kg dw	0.32	0.96	09/07/2004	ake	105	169	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.574	09/07/2004	ake	105	169	SW 8270C
Fluorene	<0.28		mg/kg dw	0.28	0.845	09/07/2004	ake	105	169	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.47	09/07/2004	ake	105	169	SW 8270C
Hexachlorocyclopentadiene	<0.31		mg/kg dw	0.31	0.924	09/07/2004	ake	105	169	SW 8270C
Hexachloro-1,3-butadiene	<0.36		mg/kg dw	0.36	1.06	09/07/2004	ake	105	169	SW 8270C
Hexachloroethane	<0.44		mg/kg dw	0.44	1.31	09/07/2004	ake	105	169	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.49	09/07/2004	ake	105	169	SW 8270C
Isophorone	<0.32		mg/kg dw	0.32	0.940	09/07/2004	ake	105	169	SW 8270C
2-Methylnaphthalene	<0.34		mg/kg dw	0.34	1.02	09/07/2004	ake	105	169	SW 8270C
Naphthalene	<0.38		mg/kg dw	0.38	1.17	09/07/2004	ake	105	169	SW 8270C
2-Nitroaniline	<0.37		mg/kg dw	0.37	1.1	09/07/2004	ake	105	169	SW 8270C
3-Nitroaniline	<0.32		mg/kg dw	0.32	0.940	09/07/2004	ake	105	169	SW 8270C
4-Nitroaniline	<0.36		mg/kg dw	0.36	1.11	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene	<0.40		mg/kg dw	0.40	1.21	09/07/2004	ake	105	169	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821142	SB-50 6'					08/31/2004 16:15				
N-Nitrosodimethylamine	<0.590		mg/kg dw	0.590	1.76	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.542	09/07/2004	ake	105	169	SW 8270C
N-Nitrosodi-n-propylamine	<0.45		mg/kg dw	0.45	1.32	09/07/2004	ake	105	169	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.606	09/07/2004	ake	105	169	SW 8270C
Pyrene	<0.27		mg/kg dw	0.27	0.80	09/07/2004	ake	105	169	SW 8270C
Pyridine	<0.595		mg/kg dw	0.595	1.79	09/07/2004	ake	105	169	SW 8270C
1,2,4-Trichlorobenzene	<0.38		mg/kg dw	0.38	1.17	09/07/2004	ake	105	169	SW 8270C
Nitrobenzene-d5 (surr)	48	OOO	%			09/07/2004	ake	105	169	SW 8270C
2-Fluorobiphenyl (surr)	53	OOO	%			09/07/2004	ake	105	169	SW 8270C
Terphenyl-d14 (surr)	73		%			09/07/2004	ake	105	169	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.3	09/07/2004	ake	105	169	SW 8270C
4-Chloro-3-methylphenol	<0.38		mg/kg dw	0.38	1.15	09/07/2004	ake	105	169	SW 8270C
3-chlorophenol	<0.46		mg/kg dw	0.46	1.37	09/07/2004	ake	105	169	SW 8270C
2-Methylphenol	<0.41		mg/kg dw	0.41	1.24	09/07/2004	ake	105	169	SW 8270C
4-Methylphenol	<0.43		mg/kg dw	0.43	1.3	09/07/2004	ake	105	169	SW 8270C
Cresols, Total	<0.839		mg/kg dw	0.839	2.52	09/07/2004	ake	105	169	SW 8270C
2,4-Dichlorophenol	<0.39		mg/kg dw	0.39	1.18	09/07/2004	ake	105	169	SW 8270C
2,4-Dimethylphenol	<0.34		mg/kg dw	0.34	1.00	09/07/2004	ake	105	169	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.45	09/07/2004	ake	105	169	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.558		mg/kg dw	0.558	1.68	09/07/2004	ake	105	169	SW 8270C
2-Nitrophenol	<0.595		mg/kg dw	0.595	1.79	09/07/2004	ake	105	169	SW 8270C
4-Nitrophenol	<0.35		mg/kg dw	0.35	1.05	09/07/2004	ake	105	169	SW 8270C
Pentachlorophenol	<0.40		mg/kg dw	0.40	1.23	09/07/2004	ake	105	169	SW 8270C
Phenol	<0.40		mg/kg dw	0.40	1.23	09/07/2004	ake	105	169	SW 8270C
2,4,5-Trichlorophenol	<0.36		mg/kg dw	0.36	1.11	09/07/2004	ake	105	169	SW 8270C
2,4,6-Trichlorophenol	<0.29		mg/kg dw	0.29	0.861	09/07/2004	ake	105	169	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821142	SAMPLE DESCRIPTION SB-50 6'					DATE-TIME TAKEN 08/31/2004 16:15				
Phenol-d6 (surr)	58		µ			09/07/2004	ake	105	169	SW 8270C
2-Fluorophenol (surr)	51	OOC	µ			09/07/2004	ake	105	169	SW 8270C
Tribromophenol (surr)	38	OOC	µ			09/07/2004	ake	105	169	SW 8270C

SAMPLE NO. 821143 **SAMPLE DESCRIPTION** TB-1 **DATE-TIME TAKEN** 08/30/2004 09:00

VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/04/2004	dmd		5624	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/04/2004	dmd		5624	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
n-Butylbenzene	<0.13		ug/L	0.13	0.39	09/04/2004	dmd		5624	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/04/2004	dmd		5624	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd		5624	SW 8260B

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821143	TB-1					08/30/2004 09:00				
Chloroform	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/04/2004	dmd		5624	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/04/2004	dmd		5624	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/04/2004	dmd		5624	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1-Isopropylether	<0.32		ug/L	0.32	0.96	09/04/2004	dmd		5624	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/04/2004	dmd		5624	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd		5624	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/04/2004	dmd		5624	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
Hexachlorobutadiene	0.31	B	ug/L	0.22	0.66	09/04/2004	dmd		5624	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd		5624	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821143	SAMPLE DESCRIPTION TB-1					DATE-TIME TAKEN 08/30/2004 09:00				
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/04/2004	dmd		5624	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/04/2004	dmd		5624	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/04/2004	dmd		5624	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,2,3-Trichlorobenzene	0.40	B	ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/04/2004	dmd		5624	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/04/2004	dmd		5624	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/04/2004	dmd		5624	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/04/2004	dmd		5624	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd		5624	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/04/2004	dmd		5624	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/04/2004	dmd		5624	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Dibromofluoromethane (surr)	101		%			09/04/2004	dmd		5624	SW 8260B
Toluene-d8 (surr)	99		%			09/04/2004	dmd		5624	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/04/2004	dmd		5624	SW 8260B
VOA Preservation pH	<2		units	NA		09/07/2004	dmd		1039	SW 9041A

B - This analyte was detected in the method blank.

TestAmerica

ANALYTICAL TESTING CORPORATION

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Pound	CCV % Rec	Flag	Date Analyzed
Cyanide, mdl		868	0.2475	mg/kg	0.245	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.244	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.247	100		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.126	102		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
Arsenic, (GFAA) mdl		629	0.0250	mg/L	0.0253	101		09/07/2004
Arsenic, (GFAA) mdl		629	0.0250	mg/L	0.0261	104		09/07/2004
Mercury, mdl		2061	3.00	mg/L	3.09	103		09/03/2004
Mercury, mdl		2061	3.00	mg/L	3.06	102		09/03/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2793	5.00	mg/L	5.19	104		09/02/2004
Barium, (ICP) mdl		2793	5.00	mg/L	5.05	101		09/02/2004
Cadmium, (ICP) mdl		2799	5.00	mg/L	5.32	106		09/02/2004
Cadmium, (ICP) mdl		2799	5.00	mg/L	5.13	103		09/02/2004
Chromium, (ICP) mdl		2798	5.00	mg/L	5.18	104		09/02/2004
Chromium, (ICP) mdl		2798	5.00	mg/L	5.06	101		09/02/2004
Lead, (ICP) mdl		2815	5.00	mg/L	5.28	106		09/02/2004
Lead, (ICP) mdl		2815	5.00	mg/L	5.15	103		09/02/2004
Selenium, (ICP) mdl		2792	5.00	mg/L	5.03	101		09/02/2004
Selenium, (ICP) mdl		2792	5.00	mg/L	4.86	97		09/02/2004
VOLATILE COMPOUNDS								
Benzene		5624	100.0	ug/L	96.0	96		09/04/2004
Chlorobenzene		5624	100.0	ug/L	103	103		09/04/2004
1,1-Dichloroethene		5624	100.0	ug/L	101	101		09/04/2004
Ethylbenzene		5624	100.0	ug/L	102	102		09/04/2004
MTBE		5624	100.0	ug/L	97.0	97		09/04/2004
1,2,4-Trimethylbenzene		5624	100.0	ug/L	103	103		09/04/2004
Toluene		5624	100.0	ug/L	102	102		09/04/2004
1,3,5-Trimethylbenzene		5624	100.0	ug/L	105	105		09/04/2004
Trichloroethylene		5624	100.0	ug/L	97.2	97		09/04/2004

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Date Analyzed
Xylenes, Total		5624	300.0	ug/L	305	102	09/04/2004
Dibromofluoromethane (surr)		5624	100.0000	%	101	101	09/04/2004
Toluene-d8 (surr)		5624	100.0000	%	104	104	09/04/2004
4-Bromofluorobenzene (surr)		5624	100.0000	%	105	105	09/04/2004
VOA 8260 NON-AQUEOUS LRL							
Benzene		1028	50.0	ug/L	56.3	113	09/09/2004
Bromoform		1028	50.0	ug/L	54.2	108	09/09/2004
Chlorobenzene		1028	50.0	ug/L	54.8	110	09/09/2004
1,1-Dichloroethane		1028	50.0	ug/L	57.3	115	09/09/2004
1,1-Dichloroethene		1028	50.0	ug/L	63.0	126	09/09/2004
Ethylbenzene		1028	50.0	ug/L	56.6	113	09/09/2004
MTBE		1028	50.0	ug/L	52.6	105	09/09/2004
1,1,2,2-Tetrachloroethane		1028	50.0	ug/L	52.3	105	09/09/2004
Toluene		1028	50.0	ug/L	54.4	109	09/09/2004
Trichloroethylene		1028	50.0	ug/L	57.7	115	09/09/2004
1,2,4-Trimethylbenzene		1028	50.0	ug/L	49.9	100	09/09/2004
1,3,5-Trimethylbenzene		1028	50.0	ug/L	55.2	110	09/09/2004
Vinyl Chloride		1028	50.0	ug/L	61.1	122	09/09/2004
Xylenes, Total		1028	150.0	ug/L	164	109	09/09/2004
4-Bromofluorobenzene (surr)		1028	100	%	100	100	09/09/2004
Dibromofluoromethane (surr)		1028	100	%	92	92	09/09/2004
Toluene-d8 (surr)		1028	100	%	99	99	09/09/2004
VOA 8260 NON-AQUEOUS LRL							
BNA Soil 8270 MDL							
Acenaphthene		169	50	ug/L	51	102	09/07/2004
Bis(2-ethylhexyl)phthalate		169	50	ug/L	52	104	09/07/2004
1,4-Dichlorobenzene		169	50	ug/L	51	102	09/07/2004
2,4-Dinitrotoluene		169	50	ug/L	52	104	09/07/2004
N-Nitrosodi-n-propylamine		169	50	ug/L	51	102	09/07/2004
Pyrene		169	50	ug/L	54	108	09/07/2004
1,2,4-Trichlorobenzene		169	50	ug/L	50	100	09/07/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Nitrobenzene-d5 (surr)		169	50.0	%	53.2	106		09/07/2004
2-Fluorobiphenyl (surr)		169	50.0	%	53.1	106		09/07/2004
Terphenyl-d14 (surr)		169	50.0	%	52.8	106		09/07/2004
4-Chloro-3-methylphenol		169	50	ug/L	51	102		09/07/2004
2-chlorophenol		169	50	ug/L	53	106		09/07/2004
4-Nitrophenol		169	50	ug/L	53	106		09/07/2004
Pentachlorophenol		169	50	ug/L	57	114		09/07/2004
Phenol		169	50	ug/L	53	106		09/07/2004
Phenol-d6 (surr)		169	50.0	%	53	106		09/07/2004
2-Fluorophenol (surr)		169	50.0	%	53	106		09/07/2004
Tribromophenol (surr)		169	50.0	%	53	106		09/07/2004
PCB's Non-Aqueous								
PCB-1254		1876	0.96	ppm	1.05	109		09/08/2004
Decachlorobiphenyl (Surr.)		1876	100	%	106	106		09/08/2004
Tetrachlorometaxylene (Surr.)		1876	100	%	97	97		09/08/2004
PCB's Non-Aqueous								
PCB-1254		1876	0.96	ppm	1.04	108		09/09/2004
Decachlorobiphenyl (Surr.)		1876	100	%	103	103		09/09/2004
Tetrachlorometaxylene (Surr.)		1876	100	%	97	97		09/09/2004
PCB's Non-Aqueous								
PCB-1254		1877	0.96	ppm	1.04	108		09/09/2004
Decachlorobiphenyl (Surr.)		1877	100	%	103	103		09/09/2004
Tetrachlorometaxylene (Surr.)		1877	100	%	97	97		09/09/2004
PCB's Non-Aqueous								
PCB-1254		1877	0.96	ppm	1.05	109		09/09/2004
Decachlorobiphenyl (Surr.)		1877	100	%	106	106		09/09/2004
Tetrachlorometaxylene (Surr.)		1877	100	%	98	98		09/09/2004
PCB's Non-Aqueous								
PCB-1254		1879	0.96	ppm	1.05	109		09/09/2004
Decachlorobiphenyl (Surr.)		1879	100	%	106	106		09/09/2004
Tetrachlorometaxylene (Surr.)		1879	100	%	98	98		09/09/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
PCB's Non-Aqueous								
PCB-1232		1879	0.96	ppm	0.91	95		09/09/2004
Decachlorobiphenyl (Surr.)		1879	100	%	109	109		09/09/2004
Tetrachlorometaxylene (Surr.)		1879	100	%	100	100		09/09/2004
PCB's Non-Aqueous								
PCB-1232		1879	0.96	ppm	0.89	93		09/09/2004
Decachlorobiphenyl (Surr.)		1879	100	%	109	109		09/09/2004
Tetrachlorometaxylene (Surr.)		1879	100	%	100	100		09/09/2004
PCB's Non-Aqueous								
PCB-1254		1879	0.96	ppm	1.02	106		09/09/2004
Decachlorobiphenyl (Surr.)		1879	100	%	104	104		09/09/2004
Tetrachlorometaxylene (Surr.)		1879	100	%	97	97		09/09/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	909	629	<0.0021		mg/L	0.21	1.0	09/07/2004
Barium, (ICP) mdl	1501	2793	<0.0039		mg/L	0.195	0.50	09/02/2004
Cadmium, (ICP) mdl	1501	2799	<0.0048		mg/L	0.24	0.84	09/02/2004
Chromium, (ICP) mdl	1501	2798	<0.0078		mg/L	0.39	1.0	09/02/2004
Lead, (ICP) mdl	1501	2815	<0.10		mg/L	5.0	5.0	09/02/2004
Selenium, (ICP) mdl	1501	2792	<0.15		mg/L	7.5	7.5	09/02/2004
Silver, (ICP) mdl	1501	627	<0.0114		mg/L	0.57	1.0	09/02/2004
VOLATILE COMPOUNDS								
Benzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Bromodichloromethane		5624	<0.46		ug/L	0.46	1.4	09/04/2004
Bromoform		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Bromomethane		5624	<0.62		ug/L	0.62	1.9	09/04/2004
Bromobenzene		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Carbon disulfide		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Bromochloromethane		5624	<0.40		ug/L	0.40	1.2	09/04/2004
Carbon tetrachloride		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Dibromomethane		5624	<0.44		ug/L	0.44	1.3	09/04/2004
Chlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
n-Butylbenzene		5624	<0.13		ug/L	0.13	0.39	09/04/2004
sec-Butylbenzene		5624	<0.16		ug/L	0.16	0.48	09/04/2004
tert-Butylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chloroethane		5624	<0.12		ug/L	0.12	0.36	09/04/2004
Chloroform		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chloromethane		5624	<0.24		ug/L	0.24	0.72	09/04/2004
2-Chlorotoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
4-Chlorotoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chlorodibromomethane		5624	<0.42		ug/L	0.42	1.3	09/04/2004
1,2-Dibromo-3-chloropropane		5624	<0.30		ug/L	0.30	0.90	09/04/2004
1,2-Dibromoethane (EDB)		5624	<0.42		ug/L	0.42	1.3	09/04/2004
1,2-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,3-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,4-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Dichlorodifluoromethane		5624	<0.40		ug/L	0.4	1.2	09/04/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1-Dichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,2-Dichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Di-Isopropylether		5624	<0.32		ug/L	0.32	0.96	09/04/2004
1,3-Dichloropropane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
2,2-Dichloropropane		5624	<0.73		ug/L	0.73	2.2	09/04/2004
1,1-Dichloropropene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,1-Dichloroethene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
trans-1,2-Dichloroethene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
cis-1,2-Dichloroethene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
1,2-Dichloropropane		5624	<0.12		ug/L	0.12	0.36	09/04/2004
cis-1,3-Dichloropropene		5624	<0.43		ug/L	0.43	1.2	09/04/2004
trans-1,3-Dichloropropene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
Hexachlorobutadiene		5624	0.52	B	ug/L	0.22	0.66	09/04/2004
Ethylbenzene		5624	<0.43		ug/L	0.43	1.3	09/04/2004
Isopropylbenzene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
p-Isopropyltoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Hexane		5624	<0.18		ug/L	0.18	0.54	09/04/2004
MTBE		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Methylene chloride		5624	<0.63		ug/L	0.63	1.9	09/04/2004
Napthalene		5624	<0.86		ug/L	0.86	2.6	09/04/2004
n-Propylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Styrene		5624	<0.41		ug/L	0.41	1.2	09/04/2004
1,1,1,2-Tetrachloroethane		5624	<0.40		ug/L	0.40	1.2	09/04/2004
1,1,2,2-Tetrachloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,2,3-Trichlorobenzene		5624	0.91	B	ug/L	0.40	1.2	09/04/2004
1,2,4-Trichlorobenzene		5624	0.35	B	ug/L	0.25	0.75	09/04/2004
Tetrachloroethene		5624	<0.37		ug/L	0.37	1.1	09/04/2004
1,2,3-Trichloropropane		5624	<0.49		ug/L	0.49	1.5	09/04/2004
1,2,4-Trimethylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Toluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,3,5-Trimethylbenzene		5624	<0.14		ug/L	0.14	0.42	09/04/2004
1,1,1-Trichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,1,2-Trichloroethane		5624	<0.10		ug/L	0.10	0.3	09/04/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichloroethylene		5624	<0.43		ug/L	0.43	1.3	09/04/2004
Trichlorofluoromethane		5624	<0.47		ug/L	0.47	1.4	09/04/2004
Vinyl chloride		5624	<0.47		ug/L	0.47	1.4	09/04/2004
Xylenes, Total		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Dibromofluoromethane (surr)		5624	100.0		%			09/04/2004
Toluene-d8 (surr)		5624	95.0		%			09/04/2004
4-Bromofluorobenzene (surr)		5624	91.0		%			09/04/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1028	<8.0		ug/kg	8.0	24	09/09/2004
Benzene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
Bromobenzene		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
Bromochloromethane		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
Bromodichloromethane		1028	<2.25		ug/kg	2.25	6.75	09/09/2004
Bromoform		1028	<3.35		ug/kg	3.35	10.0	09/09/2004
Bromomethane		1028	<4.90		ug/kg	4.90	14.5	09/09/2004
Methyl ethyl ketone (MEK)		1028	<0.85		ug/kg	0.85	2.00	09/09/2004
n-Butylbenzene		1028	<5.0		ug/kg	0.47	5.0	09/09/2004
sec-Butylbenzene		1028	<5.0		ug/kg	1.45	5.0	09/09/2004
tert-Butylbenzene		1028	<5.0		ug/kg	0.5	5.0	09/09/2004
Carbon tetrachloride		1028	<6.0		ug/kg	6.0	18.0	09/09/2004
Chlorobenzene		1028	<0.425		ug/kg	0.425	1.275	09/09/2004
Chlorodibromomethane		1028	<1.40		ug/kg	1.40	4.20	09/09/2004
Chloroethane		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
Chloroform		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
Chloromethane		1028	<0.5		ug/kg	0.5	1.5	09/09/2004
2-Chlorotoluene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004
4-Chlorotoluene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
1,2-Dibromo-3-chloropropane		1028	<10		ug/kg	10	30	09/09/2004
1,2-Dibromoethane (EDB)		1028	<2.95		ug/kg	2.95	8.85	09/09/2004
Dibromomethane		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
1,2-Dichlorobenzene		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,3-Dichlorobenzene		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,4-Dichlorobenzene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
1,1-Dichloroethane		1028	<0.80		ug/kg	0.80	2.4	09/09/2004
1,2-Dichloroethane		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
1,1-Dichloroethene		1028	<0.335		ug/kg	0.335	1.00	09/09/2004
cis-1,2-Dichloroethene		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
trans-1,2-Dichloroethene		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
1,2-Dichloropropane		1028	<0.43		ug/kg	0.43	1.29	09/09/2004
1,3-Dichloropropane		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
2,2-Dichloropropane		1028	<0.36		ug/kg	0.36	1.08	09/09/2004
1,1-Dichloropropene		1028	<0.85		ug/kg	0.85	2.55	09/09/2004
cis-1,3-Dichloropropene		1028	<0.80		ug/kg	0.80	2.40	09/09/2004
trans-1,3-Dichloropropene		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
Ethylbenzene		1028	<0.55		ug/kg	0.55	1.65	09/09/2004
Hexachlorobutadiene		1028	<2.90		ug/kg	2.90	8.70	09/09/2004
2-Hexanone		1028	<0.55		ug/kg	0.55	2.00	09/09/2004
Isopropylbenzene		1028	<0.36		ug/kg	0.36	1.08	09/09/2004
p-Isopropyltoluene		1028	<0.5		ug/kg	0.5	1.5	09/09/2004
Methylene chloride		1028	<50		ug/kg	7.0	50	09/09/2004
Methyl isobutyl ketone		1028	<0.70		ug/kg	0.70	2.00	09/09/2004
MTBE		1028	<4.75		ug/kg	4.75	14.2	09/09/2004
Naphthalene		1028	<5.0		ug/kg	0.80	5.0	09/09/2004
n-Propylbenzene		1028	<5.0		ug/kg	0.55	5.0	09/09/2004
Styrene		1028	<0.38		ug/kg	0.38	1.14	09/09/2004
1,1,1,2-Tetrachloroethane		1028	<1.80		ug/kg	1.80	5.40	09/09/2004
1,1,2,2-Tetrachloroethane		1028	<1.1		ug/kg	1.1	3.3	09/09/2004
Tetrachloroethene		1028	<0.65		ug/kg	0.65	1.95	09/09/2004
Toluene		1028	<0.70		ug/kg	0.70	2.10	09/09/2004
1,2,3-Trichlorobenzene		1028	<5.0		ug/kg	1.6	5.0	09/09/2004
1,2,4-Trichlorobenzene		1028	<5.0		ug/kg	0.32	5.0	09/09/2004
1,1,1-Trichloroethane		1028	<1.05		ug/kg	1.05	3.15	09/09/2004
1,1,2-Trichloroethane		1028	<1.2		ug/kg	1.2	3.6	09/09/2004
Trichloroethylene		1028	<0.95		ug/kg	0.95	2.85	09/09/2004
Trichlorofluoromethane		1028	<0.44		ug/kg	0.44	1.34	09/09/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2,3-Trichloropropane		1028	<0.90		ug/kg	0.90	2.7	09/09/2004
1,2,4-Trimethylbenzene		1028	<5.0		ug/kg	1.4	5.0	09/09/2004
1,3,5-Trimethylbenzene		1028	<5.0		ug/kg	2.3	5.0	09/09/2004
Vinyl Chloride		1028	<0.75		ug/kg	0.75	2.25	09/09/2004
Xylenes, Total		1028	<5.0		ug/kg	1.6	5.0	09/09/2004
4-Bromofluorobenzene (surr)		1028	97		%			09/09/2004
Dibromofluoromethane (surr)		1028	94		%			09/09/2004
Toluene-d8 (surr)		1028	94		%			09/09/2004
VOA 8260 NON-AQUEOUS LRL								
Tetrachloroethene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
BNA Soil 8270 MDL								
Acenaphthene	105	169	<0.063		mg/kg	0.063	0.189	09/07/2004
Acenaphthylene	105	169	<0.059		mg/kg	0.059	0.177	09/07/2004
Anthracene	105	169	<0.039		mg/kg	0.039	0.117	09/07/2004
Benzidine	105	169	<0.098		mg/kg	0.098	0.294	09/07/2004
Benzo(a)anthracene	105	169	<0.035		mg/kg	0.035	0.105	09/07/2004
Benzo(b)fluoranthene	105	169	<0.037		mg/kg	0.037	0.111	09/07/2004
Benzo(k)fluoranthene	105	169	<0.049		mg/kg	0.049	0.147	09/07/2004
Benzo(a)pyrene	105	169	<0.049		mg/kg	0.049	0.147	09/07/2004
Benzo(ghi)perylene	105	169	<0.039		mg/kg	0.039	0.117	09/07/2004
Benzyl alcohol	105	169	<0.081		mg/kg	0.081	0.243	09/07/2004
Benzyl butyl phthalate	105	169	<0.043		mg/kg	0.043	0.129	09/07/2004
Bis(2-chloroethyl)ether	105	169	<0.078		mg/kg	0.078	0.234	09/07/2004
Bis(2-chloroethoxy)methane	105	169	<0.074		mg/kg	0.074	0.222	09/07/2004
Bis(2-ethylhexyl)phthalate	105	169	<0.032		mg/kg	0.032	0.096	09/07/2004
Bis(2chloroisopropyl)ether	105	169	<0.086		mg/kg	0.086	0.258	09/07/2004
4-Bromophenyl phenyl ether	105	169	<0.048		mg/kg	0.048	0.144	09/07/2004
Carbazole	105	169	<0.039		mg/kg	0.039	0.117	09/07/2004
4-Chloroaniline	105	169	<0.104		mg/kg	0.104	0.312	09/07/2004
2-Chloronaphthalene	105	169	<0.070		mg/kg	0.070	0.21	09/07/2004
4-Chlorophenylphenyl ether	105	169	<0.055		mg/kg	0.055	0.165	09/07/2004
Chrysene	105	169	<0.030		mg/kg	0.030	0.090	09/07/2004
Dibenzo(a,h)anthracene	105	169	<0.077		mg/kg	0.077	0.231	09/07/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dibenzofuran	105	169	<0.047		mg/kg	0.047	0.141	09/07/2004
Di-n-butylphthalate	105	169	<0.043		mg/kg	0.043	0.129	09/07/2004
1,2-Dichlorobenzene	105	169	<0.103		mg/kg	0.103	0.309	09/07/2004
1,3-Dichlorobenzene	105	169	<0.092		mg/kg	0.092	0.276	09/07/2004
1,4-Dichlorobenzene	105	169	<0.085		mg/kg	0.085	0.255	09/07/2004
3,3-Dichlorobenzidine	105	169	<0.107		mg/kg	0.107	0.321	09/07/2004
Diethyl phthalate	105	169	<0.047		mg/kg	0.047	0.141	09/07/2004
2,4-Dinitrotoluene	105	169	<0.047		mg/kg	0.047	0.141	09/07/2004
2,6-Dinitrotoluene	105	169	<0.066		mg/kg	0.066	0.198	09/07/2004
Di-n-octylphthalate	105	169	<0.060		mg/kg	0.060	0.18	09/07/2004
Fluorene	105	169	<0.053		mg/kg	0.053	0.159	09/07/2004
Hexachlorobenzene	105	169	<0.029		mg/kg	0.029	0.087	09/07/2004
Hexachlorocyclopentadiene	105	169	<0.058		mg/kg	0.058	0.174	09/07/2004
Hexachloro-1,3-butadiene	105	169	<0.067		mg/kg	0.067	0.201	09/07/2004
Hexachloroethane	105	169	<0.082		mg/kg	0.082	0.246	09/07/2004
Indeno(1,2,3-cd)pyrene	105	169	<0.031		mg/kg	0.031	0.093	09/07/2004
Isophorone	105	169	<0.059		mg/kg	0.059	0.177	09/07/2004
2-Methylnaphthalene	105	169	<0.064		mg/kg	0.064	0.192	09/07/2004
Naphthalene	105	169	<0.073		mg/kg	0.073	0.219	09/07/2004
2-Nitroaniline	105	169	<0.070		mg/kg	0.070	0.21	09/07/2004
3-Nitroaniline	105	169	<0.059		mg/kg	0.059	0.177	09/07/2004
4-Nitroaniline	105	169	<0.069		mg/kg	0.069	0.207	09/07/2004
Nitrobenzene	105	169	<0.076		mg/kg	0.076	0.228	09/07/2004
N-Nitrosodimethylamine	105	169	<0.111		mg/kg	0.111	0.333	09/07/2004
N-Nitrosodiphenylamine	105	169	<0.034		mg/kg	0.034	0.102	09/07/2004
N-Nitrosodi-n-propylamine	105	169	<0.083		mg/kg	0.083	0.249	09/07/2004
Phenanthrene	105	169	<0.038		mg/kg	0.038	0.114	09/07/2004
Pyrene	105	169	<0.050		mg/kg	0.050	0.15	09/07/2004
Pyridine	105	169	<0.112		mg/kg	0.112	0.336	09/07/2004
1,2,4-Trichlorobenzene	105	169	<0.073		mg/kg	0.073	0.219	09/07/2004
Nitrobenzene-d5 (surr)	105	169	74.0		%			09/07/2004
2-Fluorobiphenyl (surr)	105	169	76.0		%			09/07/2004
Terphenyl-d14 (surr)	105	169	93.0		%			09/07/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

TestAmerica Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Benzoic Acid	105	169	<0.33		mg/kg	0.33	0.99	09/07/2004
4-Chloro-3-methylphenol	105	169	<0.072		mg/kg	0.072	0.216	09/07/2004
2-chlorophenol	105	169	<0.086		mg/kg	0.086	0.258	09/07/2004
2-Methylphenol	105	169	<0.078		mg/kg	0.078	0.234	09/07/2004
4-Methylphenol	105	169	<0.080		mg/kg	0.080	0.24	09/07/2004
Cresols, Total	105	169	<0.158		mg/kg	0.158	0.474	09/07/2004
2,4-Dichlorophenol	105	169	<0.074		mg/kg	0.074	0.222	09/07/2004
2,4-Dimethylphenol	105	169	<0.063		mg/kg	0.063	0.189	09/07/2004
2,4-Dinitrophenol	105	169	<0.028		mg/kg	0.028	0.084	09/07/2004
2-Methyl-4,6-dinitrophenol	105	169	<0.105		mg/kg	0.105	0.315	09/07/2004
2-Nitrophenol	105	169	<0.112		mg/kg	0.112	0.336	09/07/2004
4-Nitrophenol	105	169	<0.066		mg/kg	0.066	0.198	09/07/2004
Pentachlorophenol	105	169	<0.077		mg/kg	0.077	0.231	09/07/2004
Phenol	105	169	<0.077		mg/kg	0.077	0.231	09/07/2004
2,4,5-Trichlorophenol	105	169	<0.069		mg/kg	0.069	0.207	09/07/2004
2,4,6-Trichlorophenol	105	169	<0.054		mg/kg	0.054	0.162	09/07/2004
Phenol-d6 (surr)	105	169	78.0		%			09/07/2004
2-Fluorophenol (surr)	105	169	76.0		%			09/07/2004
Tribromophenol (surr)	105	169	74.0		%			09/07/2004
PCB's Non-Aqueous								
PCB-1016	830	1875	<0.25		mg/kg	0.15	0.25	09/08/2004
PCB-1221	830	1875	<0.25		mg/kg	0.19	0.25	09/08/2004
PCB-1232	830	1875	<0.25		mg/kg	0.029	0.25	09/08/2004
PCB-1242	830	1875	<0.25		mg/kg	0.049	0.25	09/08/2004
PCB-1248	830	1875	<0.25		mg/kg	0.019	0.25	09/08/2004
PCB-1254	830	1875	<0.25		mg/kg	0.025	0.25	09/08/2004
PCB-1260	830	1875	<0.25		mg/kg	0.14	0.25	09/08/2004
PCB-1268	830	1875	<0.25		mg/kg	0.063	0.25	09/08/2004
Decachlorobiphenyl (Surr.)	830	1875	104		%	1	1	09/08/2004
Tetrachlorometaxylene (Surr.)	830	1875	86		%	1	1	09/08/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, mdl		868	0.1980	mg/kg	0.194	98		09/09/2004
Arsenic, (GFAA) mdl	909	629	0.0400	mg/L	0.0372	93		09/07/2004
Mercury, mdl		2061	0.157	mg/kg	0.130	83	B	09/03/2004
Barium, (ICP) mdl	1501	2793	1.0	mg/L	0.9039	90		09/02/2004
Barium, (ICP) mdl	1501	2793	1.00	mg/L	0.9039	90		09/02/2004
Cadmium, (ICP) mdl	1501	2799	1.0	mg/L	0.9815	98		09/02/2004
Cadmium, (ICP) mdl	1501	2799	1.00	mg/L	0.9815	98		09/02/2004
Chromium, (ICP) mdl	1501	2798	1.0	mg/L	0.9850	98		09/02/2004
Chromium, (ICP) mdl	1501	2798	1.00	mg/L	0.9850	98		09/02/2004
Lead, (ICP) mdl	1501	2815	2.0	mg/L	1.94	97		09/02/2004
Selenium, (ICP) mdl	1501	2792	4.0	mg/L	3.86	96		09/02/2004
Silver, (ICP) mdl	1501	627	1.00	mg/L	0.9283	93		09/02/2004
VOLATILE COMPOUNDS								
Benzene		5624	20.0	ug/L	18.6	93		09/04/2004
Chlorobenzene		5624	20.0	ug/L	18.8	94		09/04/2004
1,1-Dichloroethene		5624	20.0	ug/L	19.7	98		09/04/2004
Ethylbenzene		5624	20.0	ug/L	18.1	90		09/04/2004
MTBE		5624	20.0	ug/L	20.0	100		09/04/2004
1,2,4-Trimethylbenzene		5624	20.0	ug/L	17.8	89		09/04/2004
Toluene		5624	20.0	ug/L	18.7	94		09/04/2004
1,3,5-Trimethylbenzene		5624	20.0	ug/L	18.1	90		09/04/2004
Trichloroethylene		5624	20.0	ug/L	17.4	87		09/04/2004
Xylenes, Total		5624	60.0	ug/L	55.3	92		09/04/2004
Dibromofluoromethane (surr)		5624	100	%	103.0	103		09/04/2004
Toluene-d8 (surr)		5624	100	%	98.0	98		09/04/2004
4-Bromofluorobenzene (surr)		5624	100	%	99.0	99		09/04/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1028	28.19	ug/kg	30.8	109		09/09/2004
Bromoform		1028	28.19	ug/kg	29.6	105		09/09/2004
Chlorobenzene		1028	28.19	ug/kg	29.9	106		09/09/2004
1,1-Dichloroethane		1028	28.19	ug/kg	29.9	106		09/09/2004
1,1-Dichloroethene		1028	28.19	ug/kg	31.9	113		09/09/2004
Ethylbenzene		1028	28.19	ug/kg	29.0	103		09/09/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
MTBE		1028	28.19	ug/kg	30.4	108		09/09/2004
1,1,2,2-Tetrachloroethane		1028	28.19	ug/kg	26.5	94		09/09/2004
Toluene		1028	28.19	ug/kg	29.4	104		09/09/2004
Trichloroethylene		1028	28.19	ug/kg	29.0	103		09/09/2004
1,2,4-Trimethylbenzene		1028	28.19	ug/kg	26.7	95		09/09/2004
1,3,5-Trimethylbenzene		1028	28.19	ug/kg	30.4	108		09/09/2004
Vinyl Chloride		1028	28.19	ug/kg	28.3	100		09/09/2004
Xylenes, Total		1028	84.58	ug/kg	89.0	105		09/09/2004
4-Bromofluorobenzene (surr)		1028	100	%	99	99		09/09/2004
Dibromofluoromethane (surr)		1028	100	%	96	96		09/09/2004
Toluene-d8 (surr)		1028	100	%	98	98		09/09/2004
VOA 8260 NON-AQUEOUS LRL								
BNA Soil 8270 MDL								
Acenaphthene	105	169	3.33	mg/kg	3.05	92		09/07/2004
1,4-Dichlorobenzene	105	169	3.33	mg/kg	2.47	74		09/07/2004
2,4-Dinitrotoluene	105	169	3.33	mg/kg	3.74	112		09/07/2004
N-Nitrosodi-n-propylamine	105	169	3.33	mg/kg	2.78	84		09/07/2004
Pyrene	105	169	3.33	mg/kg	3.24	97		09/07/2004
1,2,4-Trichlorobenzene	105	169	3.33	mg/kg	2.67	80		09/07/2004
Nitrobenzene-d5 (surr)	105	169	100	%	69.0	69		09/07/2004
2-Fluorobiphenyl (surr)	105	169	100	%	74.0	74		09/07/2004
Terphenyl-d14 (surr)	105	169	100	%	87.0	87		09/07/2004
4-Chloro-3-methylphenol	105	169	3.33	mg/kg	3.17	95		09/07/2004
2-chlorophenol	105	169	3.33	mg/kg	2.50	75		09/07/2004
4-Nitrophenol	105	169	3.33	mg/kg	3.53	106		09/07/2004
Pentachlorophenol	105	169	3.33	mg/kg	2.05	62		09/07/2004
Phenol	105	169	3.33	mg/kg	2.54	76		09/07/2004
Phenol-d6 (surr)	105	169	100	%	67.0	67		09/07/2004
2-Fluorophenol (surr)	105	169	100	%	63.0	63		09/07/2004
Tribromophenol (surr)	105	169	100	%	92.0	92		09/07/2004
PCB's Non-Aqueous								
PCB-1232	830	1878	0.17	mg/kg	0.16	94		09/09/2004
Decachlorobiphenyl (Surr.)	830	1878	100	%	107	107		09/09/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Tetrachlorometaxylene (Surr.)	830	1878	100	%	90	90		09/09/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job Number: 04.12006

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2740	95.17	95.20	%	0.0		09/01/2004	20
Solids, Total		2740	95.90	95.90	%	0.0		09/01/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Cindy Quast

Job Number: 04.12006

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
	Number	Number	Result						Amount	Units		
Cyanide, mdl		868	14	2.2	11	mg/kg dw	106.3	4.0	11	mg/kg dw	16.8	109.7
Arsenic, (GFAA) mdl	909	629	4.98	1.11	3.82	mg/kg dw	101.1	5.02	3.91	mg/kg dw	100.0	0.8
Mercury, mdl		2061	0.139	0.00382	0.163	mg/kg dw	83.0	0.131	0.155	mg/kg dw	82.1	6.2
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1501	2793	273	149	123	mg/kg dw	101.1	265	113	mg/kg dw	103.2	2.8
Barium, (ICP) mdl	1501	2793	273	149	123	mg/kg dw	101.1	265	113	mg/kg dw	103.2	2.8
Cadmium, (ICP) mdl	1501	2799	121	<1.0	123	mg/kg dw	98.7	109	113	mg/kg dw	96.8	10.1
Cadmium, (ICP) mdl	1501	2799	121	<0.24	123	mg/kg dw	98.7	109	113	mg/kg dw	96.8	10.1
Chromium, (ICP) mdl	1501	2798	136	15	123	mg/kg dw	99.1	128	113	mg/kg dw	99.9	6.6
Chromium, (ICP) mdl	1501	2798	136	15	123	mg/kg dw	99.1	128	113	mg/kg dw	99.9	6.6
Lead, (ICP) mdl	1501	2815	252	12	246	mg/kg dw	97.7	229	226	mg/kg dw	96.4	9.3
Lead, (ICP) mdl	1501	2815	252	12	246	mg/kg dw	97.7	229	226	mg/kg dw	96.4	9.3
Selenium, (ICP) mdl	1501	2792	476	<7.5	491	mg/kg dw	97.0	441	451	mg/kg dw	97.8	7.6
Selenium, (ICP) mdl	1501	2792	476	<7.5	491	mg/kg dw	97.0	441	451	mg/kg dw	97.8	7.6
Silver, (ICP) mdl	1501	627	51.5	<0.57	56.3	mg/kg dw	91.4			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5624	21	<0.25	20	ug/L	105.0	19.1	20.0	ug/L	95.5	9.5
Chlorobenzene		5624	22	0.25	20	ug/L	108.8	16.3	20.0	ug/L	80.3	29.8
1,1-Dichloroethene		5624	20	<0.25	20	ug/L	100.0	17.6	20.0	ug/L	88.0	12.8
Ethylbenzene		5624	16.8	<0.43	20.0	ug/L	84.0	12.9	20.0	ug/L	64.5	26.3
1,2,4-Trimethylbenzene		5624	7.0	<0.25	20.0	ug/L	35.0	5.2	20.0	ug/L	26.0	29.5
Toluene		5624	18	<0.25	20	ug/L	90.0	13.9	20.0	ug/L	69.5	25.7
1,3,5-Trimethylbenzene		5624	5.8	<0.14	20.0	ug/L	29.0	4.1	20.0	ug/L	20.5	34.3
Trichloroethylene		5624	18.8	<0.43	20.0	ug/L	94.0	16.8	20.0	ug/L	84.0	11.2
BNA Soil 8270 MDL												
Acenaphthene	105	169	8.0	<0.32	16.2	mg/kg	47.4	9.0	16.5	mg/kg	54.5	11.8
1,4-Dichlorobenzene	105	169	7.0	<0.42	16.2	mg/kg	40.6	8.0	16.5	mg/kg	48.5	13.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Cindy Quast

Job Number: 04.12006

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD		Percent Recovery	MS/MSD RPD	
								MSD Result	Spike Amount			
2,4-Dinitrotoluene	105	169	11	<0.24	16.2	mg/kg	66.4	12	16.5	mg/kg	72.7	8.7
N-Nitrosodi-n-propylamine	105	169	11	<0.42	16.2	mg/kg	65.3	13	16.5	mg/kg	78.8	16.7
Pyrene	105	169	22	2.4	16.2	mg/kg	121.0	18	16.5	mg/kg	94.5	20.0
1,2,4-Trichlorobenzene	105	169	7.5	<0.36	16.2	mg/kg	44.1	8.5	16.5	mg/kg	51.5	12.5
4-Chloro-3-methylphenol	105	169	12	<0.36	16.2	mg/kg	71.9	14	16.5	mg/kg	84.8	15.4
2-chlorophenol	105	169	10	<0.43	16.2	mg/kg	59.1	12	16.5	mg/kg	72.7	18.2
4-Nitrophenol	105	169	10	<0.33	16.2	mg/kg	59.7	13	16.5	mg/kg	78.8	26.1
Pentachlorophenol	105	169	4.8	<0.38	16.2	mg/kg	27.3	5.5	16.5	mg/kg	33.3	13.6
Phenol	105	169	10	<0.38	16.2	mg/kg	59.4	12	16.5	mg/kg	72.7	18.2
PCB's Non-Aqueous												
PCB-1016	830	1879	<0.15	<0.26	0	mg/kg dw	0	1.0	1.0	mg/kg dw	100.0	200.0
PCB-1221	830	1879	<0.19	<0.26	0	mg/kg dw	0	1.0	1.0	mg/kg dw	100.0	200.0
PCB-1232	830	1879	0.18	<0.26	0.18	mg/kg dw	100.0	0.18	0.18	mg/kg dw	100.0	0.0
PCB-1242	830	1879	<0.049	<0.26	0	mg/kg dw	0	1.0	1.0	mg/kg dw	100.0	200.0
PCB-1248	830	1879	<0.019	<0.26	0	mg/kg dw	0	0.5	0.5	mg/kg dw	100.0	200.0
PCB-1254	830	1879	<0.025	<0.26	0	mg/kg dw	0	1.0	1.0	mg/kg dw	100.0	200.0
PCB-1260	830	1879	<0.14	<0.26	0	mg/kg dw	0	1.0	1.0	mg/kg dw	100.0	200.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job No: 04.12006

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Cyanide, mdl		868	0.1980	mg/kg	0.194		98.0		90 - 110		20
Arsenic, (GFAA) mdl	909	629	0.0400	mg/L	0.0372		93.0		80 - 120		20
Mercury, mdl		2061	0.157	mg/kg	0.130		82.8		80 - 115		20
Barium, (ICP) mdl	1501	2793	1.0	mg/L	0.9039		90.4		90 - 110		20
Barium, (ICP) mdl	1501	2793	1.00	mg/L	0.9039		90.4		90 - 110		20
Cadmium, (ICP) mdl	1501	2799	1.0	mg/L	0.9815		98.2		90 - 110		20
Cadmium, (ICP) mdl	1501	2799	1.00	mg/L	0.9815		98.2		90 - 110		20
Chromium, (ICP) mdl	1501	2798	1.0	mg/L	0.9850		98.5		90 - 110		20
Chromium, (ICP) mdl	1501	2798	1.00	mg/L	0.9850		98.5		90 - 110		20
Lead, (ICP) mdl	1501	2815	2.0	mg/L	1.94		97.0		85 - 110		20
Selenium, (ICP) mdl	1501	2792	4.0	mg/L	3.86		96.5		90 - 110		20
Silver, (ICP) mdl	1501	627	1.00	mg/L	0.9283		92.8		80 - 120		
VOLATILE COMPOUNDS											
Benzene		5624	20.0	ug/L	18.6		93.0		81 - 124		27
Chlorobenzene		5624	20.0	ug/L	18.8		94.0		77 - 125		28
1,1-Dichloroethene		5624	20.0	ug/L	19.7		98.5		53 - 143		28
Ethylbenzene		5624	20.0	ug/L	18.1		90.5		65 - 140		24
MTBE		5624	20.0	ug/L	20.0		100.0		70 - 133		26
1,2,4-Trimethylbenzene		5624	20.0	ug/L	17.8		89.0		59 - 145		23
Toluene		5624	20.0	ug/L	18.7		93.5		73 - 127		21
1,3,5-Trimethylbenzene		5624	20.0	ug/L	18.1		90.5		63 - 141		24
Trichloroethylene		5624	20.0	ug/L	17.4		87.0		81 - 121		16
Xylenes, Total		5624	60.0	ug/L	55.3		92.2		75 - 130		20
Dibromofluoromethane (surr)		5624	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5624	100	%	98.0		98.0		76 - 120		50
4-Bromofluorobenzene (surr)		5624	100	%	99.0		99.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1028	28.19	ug/kg	30.8		109.3		68 - 158		20
Bromoform		1028	28.19	ug/kg	29.6		105.0		61 - 151		20
Chlorobenzene		1028	28.19	ug/kg	29.9		106.1		65 - 155		20
1,1-Dichloroethane		1028	28.19	ug/kg	29.9		106.1		64 - 154		20
1,1-Dichloroethene		1028	28.19	ug/kg	31.9		113.2		55 - 148		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job No: 04.12006

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Ethylbenzene		1028	28.19	ug/kg	29.0		102.9		69 - 159		20
MTBE		1028	28.19	ug/kg	30.4		107.8		71 - 161		20
1,1,2,2-Tetrachloroethane		1028	28.19	ug/kg	26.5		94.0		63 - 153		20
Toluene		1028	28.19	ug/kg	29.4		104.3		68 - 158		20
Trichloroethylene		1028	28.19	ug/kg	29.0		102.9		61 - 151		20
1,2,4-Trimethylbenzene		1028	28.19	ug/kg	26.7		94.7		68 - 158		20
1,3,5-Trimethylbenzene		1028	28.19	ug/kg	30.4		107.8		66 - 156		20
Vinyl Chloride		1028	28.19	ug/kg	28.3		100.4		47 - 137		20
Xylenes, Total		1028	84.58	ug/kg	89.0		105.2		69 - 159		20
4-Bromofluorobenzene (surr)		1028	100	%	99		99.0		75 - 119		20
Dibromofluoromethane (surr)		1028	100	%	96		96.0		56 - 146		
Toluene-d8 (surr)		1028	100	%	98		98.0		52 - 142		
VOA 8260 NON-AQUEOUS LRL											
BNA Soil 8270 MDL											
Acenaphthene	105	169	3.33	mg/kg	3.05		91.6		69 - 108		35
1,4-Dichlorobenzene	105	169	3.33	mg/kg	2.47		74.2		49 - 96		35
1,4-Dinitrotoluene	105	169	3.33	mg/kg	3.74		112.3		68 - 129		35
Nitrosodi-n-propylamine	105	169	3.33	mg/kg	2.78		83.5		53 - 105		35
Pyrene	105	169	3.33	mg/kg	3.24		97.3		68 - 117		35
1,2,4-Trichlorobenzene	105	169	3.33	mg/kg	2.67		80.2		51 - 98		35
Nitrobenzene-d5 (surr)	105	169	100	%	69.0		69.0		56 - 113		
2-Fluorobiphenyl (surr)	105	169	100	%	74.0		74.0		67 - 107		
Terphenyl-d14 (surr)	105	169	100	%	87.0		87.0		66 - 115		
4-Chloro-3-methylphenol	105	169	3.33	mg/kg	3.17		95.2		67 - 115		35
2-chlorophenol	105	169	3.33	mg/kg	2.50		75.1		51 - 94		35
4-Nitrophenol	105	169	3.33	mg/kg	3.53		106.0		63 - 140		35
Pentachlorophenol	105	169	3.33	mg/kg	2.05		61.6		49 - 139		35
Phenol	105	169	3.33	mg/kg	2.54		76.3		50 - 98		35
Phenol-d6 (surr)	105	169	100	%	67.0		67.0		55 - 106		
2-Fluorophenol (surr)	105	169	100	%	63.0		63.0		52 - 96		
Tribromophenol (surr)	105	169	100	%	92.0		92.0		66 - 149		
PCB's Non-Aqueous											

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/14/2004

Job No: 04.12006

Analyte	Prep	Run	LCS	LCS	LCS	LCS	LCS	Control	RPD Max.		
	Batch	Batch							Amount	Units	Result
PCB-1232	830	1878	0.17	mg/kg	0.16		94.1	19 - 109			20
Decachlorobiphenyl (Surr.)	830	1878	100	%	107		107.0	63 - 131			35
Tetrachlorometaxylene (Sur	830	1878	100	%	90		90.0	35 - 125			

TestAmerica Job Number: 04.12006

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Company: **Howard R. Green**


Send Report To: **CINDY QUAST**

Address: **8710 Earhart Lane SW, P.O. Box 9009**

City/State/Zip Code: **Cedar Rapids, IA 52409-9009**

Telephone Number: **319-847-4000** Fax: **319-847-4012**

Sampled by: (Print Name) **JON RYAN**

(Signature) 

Your PO #: _____

Invoice To: **HRC**

TA Quote #: _____

Project Name: **CHAMBERLAIN**

Project Number: **772930J23**


Project Manager: **CINDY QUAST**

Proj. Mgr. Telephone: **841-4424**

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Matrix	Preservative										Analyze For:	RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report													
								HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water						Sludge	Soil	Other Specify:	Groundwater (Gn)	Metals (PLRN) (GB/B)	PCBs	SVOCs (EMAS)	SWT VOCs	DA-1	DA-2			
SB-8	2'	8/30/04 13:30	1	✓																															
SB-12	2'	8/30/04 13:50	1	✓																															
SB-14	2'	8/30/04 14:25	2	✓																															
SB-16	2'	8/30/04 14:55	2	✓																															
SB-16R	2'	8/30/04 15:10	2	✓																															
SB-40	2'	8/30/04 12:15	1	✓																															
SB-40	14'	8/30/04 16:15	2	✓																															

NOTE: All turn-around times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES: NO TAX ACCOUNT # 15109
 NEEDED TO COMPARE RESULTS TO
 IOWA LRP STATEWIDE STANDARDS

Relinquished by:  Date: **9/1/04** Time: **8:03**

Received by: _____ Date: _____ Time: _____

Shipped Via: _____ Comments: _____ Shipped Via: _____

Received for TestAmerica by: **Connie Holst** Date: **9-1-04** Time: **8:03**

Temperature Upon Receipt: _____ Laboratory Comments: _____

09/01/2004 11:08 FAX 3198414012
 SEP-01-2004 10:02
 TESTAMERICA-ATC
 HR GREEN
 3192772425
 P.02/04

Company: Howard R. Green
 Send Report To: Cindy Quast
 Address: 8710 Earhart Lane SW, P.O. Box 9009
 City/State/Zip Code: Cedar Rapids, IA 52409-9009
 Telephone Number: 319-847-4000 Fax: 319-847-4012
 Sampled by: (Print Name) Ronn Beebe
 (Signature) Ronn Beebe

Your PO #: _____
 Invoice To: HRG
 TA Quote #: _____
 Project Name: Chamberlain
 Project Number: 722930523
 Project Manager: Cindy Quast
 Proj. Mgr. Telephone: 319-841-4424

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:															
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	VOC	SVOC	PCB's	PCP's	PAH's	Other	Standard TAT	Fax Results	Send QC with report					
SB-9 2'	8/31/04	3:50	4	X			X										X	X	X	X														
SB-11 2'	1	4:10	4	X			X										X	X	X	X														
SB-13 2'	9/2/04	4:25	5	X			X										X	X	X	X														
SB-38 2'	8/31/04	10:45	2	✓			✓										✓	✓	✓	✓														
SB-38 22'	8/31/04	11:40	2	✓			✓										✓	✓	✓	✓														
SB-50 2'	8/31/04	15:50	5	✓			✓										✓	✓	✓	✓														
SB-50 6'	8/31/04	16:15	5	✓			✓										✓	✓	✓	✓														

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.

NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES: No Tax Acct. # 15404
 Need to compare results to Iowa LRP
 statewide standards.

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
<i>[Signature]</i>	9/1/04	8:03						
Shipped Via:	Comments:			Shipped Via:				
Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:				
Connie Helot	9-1-04	8:03						

09/01/2004 11:09 FAX 3198414012 HR GREEN
 SEP-01-2004 10:02 TESTAMERICA-ATC
 3192772425 P.03/04

Company: **Howard R. Green**

Send Report To: **CINDY QUAST**

Address: **8710 Earhart Lane SW, P.O. Box 9009**

City/State/Zip Code: **Cedar Rapids, IA 52409-9009**

Telephone Number: **319-847-4000** Fax: **319-847-4012**

Sampled by: (Print Name) **JON RYK**

(Signature)

Your PO #: _____

Invoice To: **HRC**

TA Quote #: _____

Project Name: **CHAMBERLAIN**

Project Number: **772930J23**

Project Manager: **CINDY QUAST**

Proj. Mgr. Telephone: **841-4424**

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Ice	Preservative							Matrix					Other Specify:	Analyze For:				RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report									
								HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil		Cyanide (Cn)	Metals (Pb, Cd, Cr, Ni, Cu, Zn, Fe, Mn, Al, Ag, As, Hg, Se, V, Bi, Sb, Sn, Tl, U)	PCBs	SIOCS (BNAS)					PAHs (VOCs)	OA-1	OA-2						
SB-8 2'	8/30/04	13:30	1	✓			✓																														
SB-12 2'	8/30/04	13:50	1	✓			✓																	X	X	X	X										
SB-14 2'	8/30/04	14:25	2	✓			✓																X	X	X												
SB-16 2'	8/30/04	14:55	2	✓			✓																X	X	X												
SB-16R 2'	8/30/04	15:10	2	✓			✓																X	X	X												
SB-40 2'	8/30/04	16:15	1	✓			✓																X														
SB-40 14'	8/30/04	16:15	2	✓			✓																X														

NOTE: Arrival times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTE: No TAX ACCOUNT # 15709
 NEED TO COMPARE RESULTS TO IOWA LRP STATEWIDE STANDARDS

Relinquished by: Date: 9/1/04 Time: 8:03

Received by: _____ Date: _____ Time: _____

Shipped Via: _____ Comments: _____ Shipped Via: _____

Received for TestAmerica by: **Connie Holst** Date: 9-1-04 Time: 8:03

Temperature Upon Receipt: _____ Laboratory Comments: _____

Company: Howard R. Green

Your PO #: _____

Send Report To: Cindy Quast

Invoice To: HRG

Address: 8710 Earhart Lane SW, P.O. Box 9009

TA Quote #: _____

City/State/Zip Code: Cedar Rapids, IA 52409-9009

Project Name: Chamberlain

Telephone Number: 319-847-4000

Fax: 319-847-4012

Project Number: 722930523

Sampled by: (Print Name) Ronn Bebe

Project Manager: Cindy Quast

(Signature) Ronn Bebe

Proj. Mgr. Telephone: 319-841-4424

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative						Matrix				Analyze For				RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report									
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify					VOC	SVOC	RCRA Metals	Cyanide	OA-1	OA-2	PCBS		
SB-9	2'	8/31/04	3:50	4	X		X					X					X	X															
SB-11	2'		4:10	4	X		X					X					X	X															
SB-13	2'	9/2/04	4:25	5	X		X					X					X	X	X														
SB-38	2'	8/31/04	10:45	2	✓		✓					✓					X		X														
SB-38	22'	8/31/04	11:40	2	✓		✓					✓																					
SB-50	2'	8/31/04	15:50	5	✓		✓					✓					X	X	X	X													
SB-50	6'	8/31/04	16:15	5	✓		✓					✓					X	X	X	X													

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES: No Tax Acct. # 15404
Need to compare results to Iowa LRP statewide standards.

Relinquished by: <u>[Signature]</u>	Date: <u>9/1/04</u>	Time: <u>8:03</u>	Received by: _____	Date: _____	Time: _____	Relinquished by: _____	Date: _____	Time: _____
-------------------------------------	---------------------	-------------------	--------------------	-------------	-------------	------------------------	-------------	-------------

Shipped Via: _____	Comments: _____	Shipped Via: _____		
Received for TestAmerica by: <u>Connie Helst</u>	Date: <u>9-1-04</u>	Time: <u>8:03</u>	Temperature Upon Receipt: _____	Laboratory Comments: _____

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-1-04 Receiver's Initials CH Time (Delivered): 8:03

Temperature Record

Cooler ID# (If Applicable)
CF

1 °C / On Ice

Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

Courier:

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svcs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| <input type="checkbox"/> US Postal | |

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

Sample(s) not received in a cooler.

Samples(s) received within 6 hrs of sampling.

Temperature not taken:

ref 9/1/04 Per Kevin B., ID's on labels correct for SB-B and SB-12. SB-16K at 2' lid is correct.

Log-In by:

JP MF EM

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job: 04.13543

Project Number: 722930-J23
Project: Chamberlain - Waterloo, IA

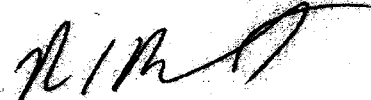
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
827074	TB-16	09/27/2004	09/29/2004
827075	FB-1W	09/27/2004	09/29/2004
827076	OF-2	09/27/2004	09/29/2004
827077	Sump-2	09/27/2004	09/29/2004
827078	MW-8B	09/27/2004	09/29/2004
827079	OF-2	09/27/2004	09/29/2004
827080	Sump-2	09/27/2004	09/29/2004
827081	GW-1	09/27/2004	09/29/2004
827082	FD-3	09/28/2004	09/29/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert

Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827074	TB-16					09/27/2004 08:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/05/2004	dmd		5796	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	10/05/2004	dmd		5796	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloroethane	<0.40		ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/05/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/05/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	10/05/2004	dmd		5796	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	10/05/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/05/2004	dmd		5796	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/05/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827074	TB-16					09/27/2004 08:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/05/2004	dmd		5796	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/05/2004	dmd		5796	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	10/05/2004	dmd		5796	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/05/2004	dmd		5796	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/05/2004	dmd		5796	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/05/2004	dmd		5796	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	10/05/2004	dmd		5796	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	10/05/2004	dmd		5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/05/2004	dmd		5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/05/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827074	SAMPLE DESCRIPTION TB-16					DATE-TIME TAKEN 09/27/2004 08:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/05/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/05/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Toluene	0.28		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B	ug/L	0.14	0.42	10/05/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/05/2004	dmd		5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/05/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/05/2004	dmd		5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/05/2004	dmd		5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Bromofluoromethane (surr)	108		%			10/05/2004	dmd		5796	SW 8260B
luene-d8 (surr)	90		%			10/05/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	85		%			10/05/2004	dmd		5796	SW 8260B
VOA Preservation pH	<2		units	NA		10/04/2004	muk		1062	SW 9041A

SAMPLE NO. 827075	SAMPLE DESCRIPTION FB-1W					DATE-TIME TAKEN 09/27/2004 09:00				
Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals	COMPLETE					10/06/2004	11w		1702	
Barium, Diss (ICP) mdl	0.0014		mg/L	0.0013	0.0047	10/06/2004	11w		6426	SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Chromium, Diss (ICP) mdl	<0.0080	IE	mg/L	0.0026	0.0092	10/06/2004	llw		6442	SW 6010B
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/06/2004	llw		6440	SW 6010B
Arsenic, Diss (GFAA) mdl	<0.00036		mg/L	0.00036	0.0013	10/01/2004	mrn		52	SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014		mg/L	0.00014	0.00050	10/01/2004	mrn		40	SW 7131A
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	10/04/2004	mrn		46	SW 7421
Mercury, diss mdl	0.051	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	10/04/2004	heh		40	SW 7740
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/02/2004	dmd		5796	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	10/02/2004	dmd		5796	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/02/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/02/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B
Chloroform	0.49		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloromethane	0.82		ug/L	0.24	0.72	10/02/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/02/2004	dmd		5796	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloropropene	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/02/2004	dmd		5796	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/02/2004	dmd		5796	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd		5796	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Hexane	0.18		ug/L	0.18	0.54	10/02/2004	dmd		5796	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Methylene chloride	<0.63		ug/L	0.63	1.9	10/02/2004	dmd		5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/02/2004	dmd		5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Toluene	0.29		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B	ug/L	0.14	0.42	10/02/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/02/2004	dmd		5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Dibromofluoromethane (surr)	126		%			10/02/2004	dmd		5796	SW 8260B
Toluene-d8 (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/07/2004	ake	448	851	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Benzidine	<2.15		ug/L	2.15	6.45	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05		ug/L	3.05	9.15	10/07/2004	ake	448	851	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/07/2004	ake	448	851	SW 8270C
Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/07/2004	ake	448	851	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/07/2004	ake	448	851	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/07/2004	ake	448	851	SW 8270C

Cindy Quast
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 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827075	SAMPLE DESCRIPTION FB-1W					DATE-TIME TAKEN 09/27/2004 09:00				
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/07/2004	ake	448	851	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/07/2004	ake	448	851	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/07/2004	ake	448	851	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/07/2004	ake	448	851	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	11.6		ug/L	2.01	6.03	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Pyrene	<2.8		ug/L	2.8	8.4	10/07/2004	ake	448	851	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	66		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	66		%	100	100	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	100		%	100	100	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/07/2004	ake	448	851	SW 8270C
4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/07/2004	ake	448	851	SW 8270C
i-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/07/2004	ake	448	851	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	28	OOO	%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	43		%	100	100	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	96		%	100	100	10/07/2004	ake	448	851	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

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Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827075	SAMPLE DESCRIPTION FB-1W					DATE-TIME TAKEN 09/27/2004 09:00				
Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/06/2004	kak	237	650	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/06/2004	kak	237	650	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/06/2004	kak	237	650	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/06/2004	kak	237	650	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/06/2004	kak	237	650	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/06/2004	kak	237	650	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/06/2004	kak	237	650	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/06/2004	kak	237	650	SW 8082
Decachlorobiphenyl (Surr.)	34		%			10/06/2004	kak	237	650	SW 8082
Tetrachlorometaxylene (Surr.)	59		%			10/06/2004	kak	237	650	SW 8082
VOA Preservation pH	<2		units	NA		10/04/2004	mmk		1062	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827076	OF-2	09/27/2004 14:30
Cyanide, Total mdl	0.0031	mg/L 0.0022 0.0078 10/04/2004 lbb 1402 EPA 335.4
ICP Metals Prep	D	mg/L 10/01/2004 tdo 4078 SW 3010A
Arsenic, (GFAA) LL mdl	0.00319	mg/L 0.00040 0.0014 10/01/2004 mrm 3029 75 SW 7060A
Cadmium, (GFAA) mdl	0.00585	mg/L 0.00014 0.00050 10/01/2004 mrm 3029 59 SW 7131A
Lead, (GFAA) mdl	0.06274	mg/L 0.00050 0.0018 10/04/2004 mrm 3029 98 SW 7421

ANALYTICAL REPORT

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Mercury, mdl	0.122	B	ug/L	0.017	0.061	10/06/2004	heh		2430	EPA 245.2
Selenium, (GFAA) mdl	0.0031		mg/L	0.0015	0.0053	10/04/2004	mrm	3029	65	SW 7740
GFAA Total Metals Digestion	D					09/29/2004	mrm	3029		
ICP Metals SW-6010B mdl										
Barium, (ICP) mdl	0.078		mg/L	0.0013	0.0047	10/04/2004	llw	4078	6421	SW 6010B
Chromium, (ICP) mdl	0.022	B	mg/L	0.0026	0.0092	10/04/2004	llw	4078	6437	SW 6010B
Silver, (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/04/2004	llw	4078	6435	SW 6010B
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510
VOLATILE COMPOUNDS										
Benzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Bromodichloromethane	<2.3		ug/L	2.3	7.0	10/02/2004	dmd		5796	SW 8260B
Bromoform	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Bromomethane	<3.1		ug/L	3.1	9.5	10/02/2004	dmd		5796	SW 8260B
Bromobenzene	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Carbon disulfide	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Bromochloromethane	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Dibromomethane	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Chlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.65	B	ug/L	0.65	2.0	10/02/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.80	B	ug/L	0.80	2.4	10/02/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Chloroethane	<0.60		ug/L	0.60	1.8	10/02/2004	dmd		5796	SW 8260B
Chloroform	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Chloromethane	1.7		ug/L	1.2	3.6	10/02/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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10/25/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827076	OF-2								09/27/2004 14:30	
4-Chlorotoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Chlorodibromomethane	<2.1		ug/L	2.1	6.5	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromo-3-chloropropane	<1.5		ug/L	1.5	4.5	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromoethane (EDB)	<2.1		ug/L	2.1	6.5	10/02/2004	dmd		5796	SW 8260B
1,2-Dichlorobenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,4-Dichlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Dichlorodifluoromethane	<2.0		ug/L	2	6.0	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Di-Isopropylether	<1.6		ug/L	1.6	4.8	10/02/2004	dmd		5796	SW 8260B
1,3-Dichloropropane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
2,2-Dichloropropane	<3.6		ug/L	3.6	11	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloropropene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
trans-1,2-Dichloroethene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
cis-1,2-Dichloroethene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.60		ug/L	0.60	1.8	10/02/2004	dmd		5796	SW 8260B
cis-1,3-Dichloropropene	<2.2		ug/L	2.2	6.0	10/02/2004	dmd		5796	SW 8260B
trans-1,3-Dichloropropene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Hexachlorobutadiene	<1.1	B	ug/L	1.1	3.3	10/02/2004	dmd		5796	SW 8260B
Ethylbenzene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Isopropylbenzene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
p-Isopropyltoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Hexane	<0.90		ug/L	0.90	2.7	10/02/2004	dmd		5796	SW 8260B
MTBE	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827076	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 14:30				
Methylene chloride	<3.2		ug/L	3.2	9.5	10/02/2004	dmd		5796	SW 8260B
Napthalene	<4.3	B	ug/L	4.3	13	10/02/2004	dmd		5796	SW 8260B
n-Propylbenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Styrene	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<2.0	B	ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Tetrachloroethene	<1.8		ug/L	1.8	5.5	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<2.4		ug/L	2.4	7.5	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
luene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.70	B	ug/L	0.70	2.1	10/02/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.50		ug/L	0.50	2	10/02/2004	dmd		5796	SW 8260B
Trichloroethylene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<2.4		ug/L	2.4	7.0	10/02/2004	dmd		5796	SW 8260B
Vinyl chloride	<2.4		ug/L	2.4	7.0	10/02/2004	dmd		5796	SW 8260B
Xylenes, Total	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Dibromofluoromethane (surr)	100		%			10/02/2004	dmd		5796	SW 8260B
Toluene-d8 (surr)	91		%			10/02/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	87		%			10/02/2004	dmd		5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<62		ug/L	62	190	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<53.7		ug/L	53.7	161	10/07/2004	ake	448	851	SW 8270C
Anthracene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827076	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 14:30				
Benzidine	<45.8		ug/L	45.8	137	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<57.9		ug/L	57.9	174	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<54.7		ug/L	54.7	164	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<55		ug/L	55	170	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<52.6		ug/L	52.6	158	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<59.2		ug/L	59.2	178	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<53		ug/L	53	160	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<58.1		ug/L	58.1	174	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<46.2		ug/L	46.2	139	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<49.6		ug/L	49.6	149	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<65.0		ug/L	65.0	195	10/07/2004	ake	448	851	SW 8270C
Bis(2chloroisopropyl)ether	<46.6		ug/L	46.6	140	10/07/2004	ake	448	851	SW 8270C
4-Bromophenyl phenyl ether	<69.7		ug/L	69.7	209	10/07/2004	ake	448	851	SW 8270C
4-Chloroaniline	<36.0		ug/L	36.0	108	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<49.4		ug/L	49.4	148	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<55.0		ug/L	55.0	165	10/07/2004	ake	448	851	SW 8270C
Chrysene	<56.9		ug/L	56.9	171	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<58.1		ug/L	58.1	174	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<42.0		ug/L	42.0	126	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<53.0		ug/L	53.0	159	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<45		ug/L	45	130	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<33.0		ug/L	33.0	99.0	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<53.0		ug/L	53.0	159	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<50.3		ug/L	50.3	151	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827076	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 14:30				
Dimethyl phthalate	<55.0		ug/L	55.0	165	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<33.0		ug/L	33.0	99.0	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<60.1		ug/L	60.1	180	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<44.3		ug/L	44.3	133	10/07/2004	ake	448	851	SW 8270C
Fluorene	<45.4		ug/L	45.4	136	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<45.8		ug/L	45.8	137	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<51.3		ug/L	51.3	154	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<37.9		ug/L	37.9	114	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<41.3		ug/L	41.3	124	10/07/2004	ake	448	851	SW 8270C
Indeno(1,2,3-cd)pyrene	<55		ug/L	55	170	10/07/2004	ake	448	851	SW 8270C
Phosphorone	<50.5		ug/L	50.5	151	10/07/2004	ake	448	851	SW 8270C
Methylnapthalene	<47.5		ug/L	47.5	142	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<57.1		ug/L	57.1	171	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<47.9		ug/L	47.9	144	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<39.2		ug/L	39.2	118	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<29.0		ug/L	29.0	86.9	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<43.5		ug/L	43.5	130	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	<42.8		ug/L	42.8	128	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<52.0		ug/L	52.0	156	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<58.8		ug/L	58.8	176	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<36.4		ug/L	36.4	109	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<54.5		ug/L	54.5	164	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<54.3		ug/L	54.3	163	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<32.2		ug/L	32.2	96.5	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Pyrene	<60		ug/L	60	180	10/07/2004	ake	448	851	SW 8270C
Pyridine	<29.0		ug/L	29.0	86.9	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<52.4		ug/L	52.4	157	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<49.6		ug/L	49.6	149	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	86		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	97		%	100	100	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	102		%	100	100	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<213		ug/L	213	639	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<58		ug/L	58	170	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<52.8		ug/L	52.8	158	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<94.1		ug/L	94.1	283	10/07/2004	ake	448	851	SW 8270C
2,4-Dichlorophenol	<56.7		ug/L	56.7	170	10/07/2004	ake	448	851	SW 8270C
2,4-Dimethylphenol	<31.7		ug/L	31.7	95.2	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrophenol	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<63.5		ug/L	63.5	190	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<45		ug/L	45	130	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<58.8		ug/L	58.8	176	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<38		ug/L	38	120	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<89.7		ug/L	89.7	268	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<59.2		ug/L	59.2	178	10/07/2004	ake	448	851	SW 8270C
Phenol	<36.6		ug/L	36.6	110	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<68.6		ug/L	68.6	206	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<78.0		ug/L	78.0	234	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	39		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	56		%	100	100	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	93		%	100	100	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION
827076	OF-2

DATE-TIME TAKEN
 09/27/2004 14:30

Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.2		ug/L	0.2	0.6	10/08/2004	kak	237	651	SW 8082
PCB-1242	<0.2		ug/L	0.2	0.5	10/08/2004	kak	237	651	SW 8082
PCB-1221	<1		ug/L	1	3	10/08/2004	kak	237	651	SW 8082
PCB-1232	<0.05		ug/L	0.05	0.2	10/08/2004	kak	237	651	SW 8082
PCB-1248	<0.1		ug/L	0.1	0.4	10/08/2004	kak	237	651	SW 8082
PCB-1254	<0.2		ug/L	0.2	0.6	10/08/2004	kak	237	651	SW 8082
PCB-1260	<0.2		ug/L	0.2	0.5	10/08/2004	kak	237	651	SW 8082
PCB-1268	<2		ug/L	2	2	10/08/2004	kak	237	651	SW 8082
Decachlorobiphenyl (Surr.)	26		%			10/08/2004	kak	237	651	SW 8082
Trichlorometaxylene (Surr.)	62		%			10/08/2004	kak	237	651	SW 8082
HA Preservation pH	<2.0		units	NA		10/01/2004	ake		1060	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION
827077	Sump-2

DATE-TIME TAKEN
 09/27/2004 16:00

Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
ICP Metals Prep	D		mg/L			10/01/2004	tco	4078		SW 3010A
Arsenic, (GFAA) LL mdl	0.00107		mg/L	0.00040	0.0014	10/01/2004	mrn	3029	75	SW 7060A
Cadmium, (GFAA) mdl	0.00091		mg/L	0.00014	0.00050	10/01/2004	mrn	3029	59	SW 7131A
Lead, (GFAA) mdl	0.01738		mg/L	0.00050	0.0018	10/04/2004	mrn	3029	98	SW 7421

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2					DATE-TIME TAKEN 09/27/2004 16:00				
Mercury, mdl	0.082	B	ug/L	0.017	0.061	10/06/2004	heh		2430	EPA 245.2
Selenium, (GFAA) mdl	0.0019		mg/L	0.0015	0.0053	10/04/2004	mrm	3029	65	SW 7740
GFAA Total Metals Digestion	D					09/29/2004	mrm	3029		
ICP Metals SW-6010B mdl										
Barium, (ICP) mdl	0.024		mg/L	0.0013	0.0047	10/04/2004	llw	4078	6421	SW 6010B
Chromium, (ICP) mdl	0.0089	B	mg/L	0.0026	0.0092	10/04/2004	llw	4078	6437	SW 6010B
Silver, (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/04/2004	llw	4078	6435	SW 6010B
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/02/2004	dmd		5796	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	10/02/2004	dmd		5796	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/02/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/02/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloromethane	0.35		ug/L	0.24	0.72	10/02/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827077	Sump-2					09/27/2004 16:00				
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/02/2004	dmd		5796	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/02/2004	dmd		5796	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/02/2004	dmd		5796	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/02/2004	dmd		5796	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd		5796	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	10/02/2004	dmd		5796	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827077	Sump-2								09/27/2004 16:00	
Methylene chloride	<0.63		ug/L	0.63	1.9	10/02/2004	dmd		5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/02/2004	dmd		5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B,MSO	ug/L	0.14	0.42	10/02/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/02/2004	dmd		5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Dibromofluoromethane (surr)	101		%			10/02/2004	dmd		5796	SW 8260B
Toluene-d8 (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<14		ug/L	14	44	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<12.6		ug/L	12.6	37.8	10/07/2004	ake	448	851	SW 8270C
Anthracene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:00	
Benzidine	<10.8		ug/L	10.8	32.2	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<13.6		ug/L	13.6	40.8	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<12.8		ug/L	12.8	38.6	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<13		ug/L	13	39	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<12.4		ug/L	12.4	37.0	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<13.9		ug/L	13.9	41.7	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<12		ug/L	12	38	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<13.6		ug/L	13.6	41.0	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<10.8		ug/L	10.8	32.6	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<11.6		ug/L	11.6	35.0	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<15.2		ug/L	15.2	45.8	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroisopropyl)ether	<11.0		ug/L	11.0	32.8	10/07/2004	ake	448	851	SW 8270C
Bromophenyl phenyl ether	<16.4		ug/L	16.4	49.0	10/07/2004	ake	448	851	SW 8270C
4-Chloroaniline	<8.45		ug/L	8.45	25.4	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<11.6		ug/L	11.6	34.8	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<12.9		ug/L	12.9	38.7	10/07/2004	ake	448	851	SW 8270C
Chrysene	<13.4		ug/L	13.4	40.0	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<13.6		ug/L	13.6	41.0	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<9.85		ug/L	9.85	29.6	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<12.4		ug/L	12.4	37.4	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<10		ug/L	10	32	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<7.75		ug/L	7.75	23.2	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<12.4		ug/L	12.4	37.4	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<11.8		ug/L	11.8	35.4	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:00	
Dimethyl phthalate	<12.9		ug/L	12.9	38.7	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<7.75		ug/L	7.75	23.2	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<14.1		ug/L	14.1	42.3	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<10.4		ug/L	10.4	31.2	10/07/2004	ake	448	851	SW 8270C
Fluorene	<10.6		ug/L	10.6	32.0	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<10.8		ug/L	10.8	32.2	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<12.0		ug/L	12.0	36.2	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<8.90		ug/L	8.90	26.7	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<9.70		ug/L	9.70	29.1	10/07/2004	ake	448	851	SW 8270C
Indeno (1,2,3-cd)pyrene	<13		ug/L	13	39	10/07/2004	ake	448	851	SW 8270C
Isophorone	<11.8		ug/L	11.8	35.6	10/07/2004	ake	448	851	SW 8270C
2-Methylnaphthalene	<11.2		ug/L	11.2	33.4	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<13.4		ug/L	13.4	40.2	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<11.2		ug/L	11.2	33.8	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<9.20		ug/L	9.20	27.6	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<6.80		ug/L	6.80	20.4	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<10.2		ug/L	10.2	30.6	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	<10.0		ug/L	10.0	30.2	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<12.2		ug/L	12.2	36.6	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<13.8		ug/L	13.8	41.4	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<8.55		ug/L	8.55	25.6	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<12.8		ug/L	12.8	38.4	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<12.8		ug/L	12.8	38.2	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<7.55		ug/L	7.55	22.6	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827077	Sump-2					09/27/2004 16:00				
Pyrene	<14		ug/L	14	42	10/07/2004	ake	448	851	SW 8270C
Pyridine	<6.80		ug/L	6.80	20.4	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<12.3		ug/L	12.3	36.9	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<11.6		ug/L	11.6	35.0	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	72		%	500	500	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	79		%	500	500	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	94		%	500	500	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<50.0		ug/L	50.0	150	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<14		ug/L	14	40	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<12.4		ug/L	12.4	37.2	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<22.1		ug/L	22.1	66.5	10/07/2004	ake	448	851	SW 8270C
4-Dichlorophenol	<13.3		ug/L	13.3	39.9	10/07/2004	ake	448	851	SW 8270C
4-Dimethylphenol	<7.45		ug/L	7.45	22.4	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrophenol	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<14.9		ug/L	14.9	44.7	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<10		ug/L	10	32	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<13.8		ug/L	13.8	41.4	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<9.0		ug/L	9.0	27	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<21.0		ug/L	21.0	63.0	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<13.9		ug/L	13.9	41.7	10/07/2004	ake	448	851	SW 8270C
Phenol	<8.60		ug/L	8.60	25.8	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<16.1		ug/L	16.1	48.3	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<18.3		ug/L	18.3	55.0	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	30		%	500	500	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	44		%	500	500	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	96		%	500	500	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/25/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2					DATE-TIME TAKEN 09/27/2004 16:00				
Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/06/2004	kak	237	650	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/06/2004	kak	237	650	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/06/2004	kak	237	650	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/06/2004	kak	237	650	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/06/2004	kak	237	650	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/06/2004	kak	237	650	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/06/2004	kak	237	650	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/06/2004	kak	237	650	SW 8082
Decachlorobiphenyl (Surr.)	50		%			10/06/2004	kak	237	650	SW 8082
Tetrachlorometaxylene (Surr.)	14		%			10/06/2004	kak	237	650	SW 8082
VOA Preservation pH	<2		units	NA		10/04/2004	mmk		1062	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827078	MW-8B					09/27/2004 09:45				
Cyanide, Total mdl	0.0494		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
Cyanide, mdl	0.334		mg/kg dw	0.14	0.64	10/08/2004	lbb		878	SW 9012
Solids, Total	78.11		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	3.03	MSO	mg/kg dw	0.27	1.3	10/01/2004	mrm	915	635	SW 7060A
Mercury, mdl	0.047	B	mg/kg dw	0.0015	0.0055	10/12/2004	heh		2066	SW 7471A
GFAA Metals Digestion	2.019		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	2.209		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	35		mg/kg dw	0.250	0.64	10/04/2004	llw	1510	2811	SW 6010B
Cadmium, (ICP) mdl	2.7		mg/kg dw	0.31	1.1	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	27		mg/kg dw	0.50	1.3	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	26		mg/kg dw	6.4	6.4	10/04/2004	llw	1510	2833	SW 6010B
Mercury, (ICP) mdl	<13		mg/kg dw	9.6	9.6	10/04/2004	llw	1510	2810	SW 6010B
Copper, (ICP) mdl	<0.99		mg/kg dw	0.73	1.3	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	37.4		ug/kg dw	10	31	10/09/2004	mmk		1059	SW 8260B
Benzene	<0.70		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.90		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<2.88		ug/kg dw	2.88	8.64	10/09/2004	mmk		1059	SW 8260B
Bromoform	<4.29		ug/kg dw	4.29	12.8	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<6.27		ug/kg dw	6.27	18.6	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.1		ug/kg dw	1.1	2.56	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	7.0		ug/kg dw	0.60	6.4	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<6.4		ug/kg dw	1.86	6.4	10/09/2004	mmk		1059	SW 8260B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827079	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 15:00				
tert-Butylbenzene	14.1		ug/kg dw	0.6	6.4	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<7.7		ug/kg dw	7.7	23.0	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.544		ug/kg dw	0.544	1.632	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.79		ug/kg dw	1.79	5.38	10/09/2004	mmk		1059	SW 8260B
Chloroethane	<0.90		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.9	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<0.70		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<13		ug/kg dw	13	38	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<3.78		ug/kg dw	3.78	11.3	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<1.0		ug/kg dw	1.0	3.1	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.429		ug/kg dw	0.429	1.28	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.55		ug/kg dw	0.55	1.65	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.38	10/09/2004	mmk		1059	SW 8260
1,1-Dichloropropene	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.0		ug/kg dw	1.0	3.07	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
trans-1,3-Dichloropropene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	2.53		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.71		ug/kg dw	3.71	11.1	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.70		ug/kg dw	0.70	2.56	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	2.91		ug/kg dw	0.46	1.38	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.6		ug/kg dw	0.6	1.9	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<64		ug/kg dw	9.0	64	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	21.3		ug/kg dw	0.90	2.56	10/09/2004	mmk		1059	SW 8260B
MTBE	<6.08		ug/kg dw	6.08	18.2	10/09/2004	mmk		1059	SW 8260B
Naphthalene	13.4		ug/kg dw	1.0	6.4	10/09/2004	mmk		1059	SW 8260B
n-Propylbenzene	<6.4		ug/kg dw	0.70	6.4	10/09/2004	mmk		1059	SW 8260B
Styrene	<0.49		ug/kg dw	0.49	1.46	10/09/2004	mmk		1059	SW 8260B
1,1,2-Tetrachloroethane	<2.30		ug/kg dw	2.30	6.91	10/09/2004	mmk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
Tetrachloroethene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
Toluene	4.46		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichlorobenzene	<6.4		ug/kg dw	2.0	6.4	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trichlorobenzene	<6.4		ug/kg dw	0.41	6.4	10/09/2004	mmk		1059	SW 8260B
1,1,1-Trichloroethane	<1.34		ug/kg dw	1.34	4.03	10/09/2004	mmk		1059	SW 8260B
1,1,2-Trichloroethane	<1.5		ug/kg dw	1.5	4.6	10/09/2004	mmk		1059	SW 8260B
Trichloroethylene	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
Trichlorofluoromethane	<0.56		ug/kg dw	0.56	1.72	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichloropropane	<1.2		ug/kg dw	1.2	3.5	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trimethylbenzene	16.1		ug/kg dw	1.8	6.4	10/09/2004	mmk		1059	SW 8260B
1,3,5-Trimethylbenzene	<6.4		ug/kg dw	2.9	6.4	10/09/2004	mmk		1059	SW 8260B
Vinyl Chloride	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
Xylenes, Total	<6.4		ug/kg dw	2.0	6.4	10/09/2004	mmk		1059	SW 8260B
4-Bromofluorobenzene (surr)	96		%			10/09/2004	mmk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mmk		1059	SW 8260B
Toluene-d8 (surr)	99		%			10/09/2004	mmk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	4.4		mg/kg dw	1.7	4.80	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	2.8		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
Anthracene	8.64		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
Benzidine	<2.4		mg/kg dw	2.4	7.48	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	16.6		mg/kg dw	0.91	2.66	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	12.8		mg/kg dw	0.91	2.82	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	13.3		mg/kg dw	1.2	3.74	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	14.7		mg/kg dw	1.2	3.74	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	8.26		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<2.0		mg/kg dw	2.0	6.20	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<1.1		mg/kg dw	1.1	3.28	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<1.9		mg/kg dw	1.9	5.94	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<1.9		mg/kg dw	1.9	5.65	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	1.1		mg/kg dw	0.82	2.4	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<2.2		mg/kg dw	2.2	6.55	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<1.2		mg/kg dw	1.2	3.66	10/01/2004	ake	115	185	SW 8270C
Carbazole	6.0		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<2.64		mg/kg dw	2.64	7.92	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<1.8		mg/kg dw	1.8	5.1	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<1.4		mg/kg dw	1.4	4.20	10/01/2004	ake	115	185	SW 8270C
Chrysene	18.4		mg/kg dw	0.77	2.3	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
Dibenzo (a, h) anthracene	2.0		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	3.6		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<1.1		mg/kg dw	1.1	3.28	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<2.61		mg/kg dw	2.61	7.82	10/01/2004	ake	115	185	SW 8270C
1,3-Dichlorobenzene	<2.3		mg/kg dw	2.3	7.02	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<2.2		mg/kg dw	2.2	6.50	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<2.71		mg/kg dw	2.71	8.13	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<1.2		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
Dimethyl phthalate	1.5		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	11.1		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<1.7		mg/kg dw	1.7	5.03	10/01/2004	ake	115	185	SW 8270C
n-octylphthalate	<1.5		mg/kg dw	1.5	4.6	10/01/2004	ake	115	185	SW 8270C
fluoranthene	47.0		mg/kg dw	0.91	2.74	10/01/2004	ake	115	185	SW 8270C
Fluorene	6.1		mg/kg dw	1.3	4.05	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.72		mg/kg dw	0.72	2.2	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<1.5		mg/kg dw	1.5	4.42	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<1.7		mg/kg dw	1.7	5.08	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<2.0		mg/kg dw	2.0	6.25	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	9.35		mg/kg dw	0.82	2.3	10/01/2004	ake	115	185	SW 8270C
Isophorone	<1.5		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	1.8		mg/kg dw	1.7	4.88	10/01/2004	ake	115	185	SW 8270C
Naphthalene	3.7		mg/kg dw	1.8	5.59	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<1.8		mg/kg dw	1.8	5.1	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<1.5		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<1.7		mg/kg dw	1.7	5.29	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<1.9		mg/kg dw	1.9	5.80	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
N-Nitrosodimethylamine	<2.82		mg/kg dw	2.82	8.44	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.86		mg/kg dw	0.86	2.59	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<2.2		mg/kg dw	2.2	6.30	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	40.5		mg/kg dw	0.96	2.89	10/01/2004	ake	115	185	SW 8270C
Pyrene	35.1		mg/kg dw	1.3	3.8	10/01/2004	ake	115	185	SW 8270C
Pyridine	<2.84		mg/kg dw	2.84	8.54	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<1.8		mg/kg dw	1.8	5.59	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	106		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	115		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<8.2		mg/kg dw	8.2	26	10/01/2004	ake	115	185	SW 8270C
4-Chloro-3-methylphenol	<1.8		mg/kg dw	1.8	5.49	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<2.2		mg/kg dw	2.2	6.55	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<1.9		mg/kg dw	1.9	5.94	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<2.0		mg/kg dw	2.0	6.1	10/01/2004	ake	115	185	SW 8270C
Cresols, Total	<4.02		mg/kg dw	4.02	12.0	10/01/2004	ake	115	185	SW 8270C
2,4-Dichlorophenol	<1.9		mg/kg dw	1.9	5.65	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<1.7		mg/kg dw	1.7	4.80	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<0.72		mg/kg dw	0.72	2.2	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.66		mg/kg dw	2.66	8.03	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<2.84		mg/kg dw	2.84	8.54	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<1.7		mg/kg dw	1.7	5.03	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	<1.9		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
Phenol	<1.9		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<1.7		mg/kg dw	1.7	5.29	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<1.4		mg/kg dw	1.4	4.12	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827079	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 15:00				
Phenol-d6 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	87		%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	78		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.6		mg/kg dw	0.4	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1221	<0.6		mg/kg dw	0.5	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1232	<0.6		mg/kg dw	0.07	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1242	<0.6		mg/kg dw	0.1	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1248	<0.6		mg/kg dw	0.024	0.32	10/13/2004	kak	839	1909	SW 8082
PCB-1254	<0.6		mg/kg dw	0.06	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1260	<0.6		mg/kg dw	0.4	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1268	<0.6		mg/kg dw	0.2	0.6	10/13/2004	kak	839	1909	SW 8082
1,2-dichlorobiphenyl (Surr.)	0	**	%	1	1	10/13/2004	kak	839	1909	SW 8082
1,2,4-trichlorometaxylene (Surr.)	105		%	1	1	10/13/2004	kak	839	1909	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827080	Sump-2	09/27/2004 16:30
Cyanide, mdl	0.806	mg/kg dw 0.23 1.0 10/08/2004 lbb 878 SW 9012
Solids, Total	47.62	% 0.01 0.01 09/29/2004 sas 2772 SM 2540 G
Arsenic, (GFAA) mdl	8.78	mg/kg dw 0.44 2.1 10/01/2004 mrm 915 635 SW 7060A
Mercury, mdl	0.229	B mg/kg dw 0.0025 0.0090 10/12/2004 heh 2066 SW 7471A

B - This analyte was detected in the method blank.
 ** - Surrogate not added to the spiking solution.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827080	Sump-2								09/27/2004 16:30	
GFAA Metals Digestion	1.195		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	1.071		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	140		mg/kg dw	0.409	1.0	10/04/2004	llw	1510	2811	SW 6010B
Cadmium, (ICP) mdl	9.0		mg/kg dw	0.50	1.8	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	273		mg/kg dw	0.82	2.1	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	420		mg/kg dw	10	10	10/04/2004	llw	1510	2833	SW 6010B
Selenium, (ICP) mdl	<46		mg/kg dw	16	16	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	<3.6		mg/kg dw	1.2	2.1	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	COMPLETE					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	<17		ug/kg dw	17	50	10/09/2004	mmk		1059	SW 8260B
Benzene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<4.72		ug/kg dw	4.72	14.2	10/09/2004	mmk		1059	SW 8260B
Bromoform	<7.03		ug/kg dw	7.03	21.0	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<10.3		ug/kg dw	10.3	30.4	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.8		ug/kg dw	1.8	4.20	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<10		ug/kg dw	0.99	10	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<10		ug/kg dw	3.04	10	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	15		ug/kg dw	1	10	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<13		ug/kg dw	13	37.8	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.892		ug/kg dw	0.892	2.677	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<2.94		ug/kg dw	2.94	8.82	10/09/2004	mmk		1059	SW 8260B

IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION
827080	Sump-2

DATE-TIME TAKEN
 09/27/2004 16:30

Chloroethane	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<1		ug/kg dw	1	3.1	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<21		ug/kg dw	21	63	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<6.19		ug/kg dw	6.19	18.6	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk		1059	SW 8260B
1-Chlorodifluoromethane	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<1.7		ug/kg dw	1.7	5.0	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.703		ug/kg dw	0.703	2.10	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.90		ug/kg dw	0.90	2.71	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.76		ug/kg dw	0.76	2.27	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloropropene	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.7		ug/kg dw	1.7	5.04	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<6.09		ug/kg dw	6.09	18.3	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<1.2		ug/kg dw	1.2	4.20	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827080	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:30	
Isopropylbenzene	<0.76		ug/kg dw	0.76	2.27	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<1		ug/kg dw	1	3.1	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<100		ug/kg dw	15	100	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	<1.5		ug/kg dw	1.5	4.20	10/09/2004	mmk		1059	SW 8260B
MTBE	<9.97		ug/kg dw	9.97	29.8	10/09/2004	mmk		1059	SW 8260B
Naphthalene	<10		ug/kg dw	1.7	10	10/09/2004	mmk		1059	SW 8260B
n-Propylbenzene	<10		ug/kg dw	1.2	10	10/09/2004	mmk		1059	SW 8260B
Styrene	<0.80		ug/kg dw	0.80	2.39	10/09/2004	mmk		1059	SW 8260B
1,1,1,2-Tetrachloroethane	<3.78		ug/kg dw	3.78	11.3	10/09/2004	mmk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
Tetrachloroethene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk		1059	SW 8260B
Toluene	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichlorobenzene	<10		ug/kg dw	3.4	10	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trichlorobenzene	<10		ug/kg dw	0.67	10	10/09/2004	mmk		1059	SW 8260B
1,1,1-Trichloroethane	<2.20		ug/kg dw	2.20	6.61	10/09/2004	mmk		1059	SW 8260B
1,1,2-Trichloroethane	<2.5		ug/kg dw	2.5	7.6	10/09/2004	mmk		1059	SW 8260B
Trichloroethylene	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
Trichlorofluoromethane	<0.92		ug/kg dw	0.92	2.81	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichloropropane	<1.9		ug/kg dw	1.9	5.7	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trimethylbenzene	<10		ug/kg dw	2.9	10	10/09/2004	mmk		1059	SW 8260B
1,3,5-Trimethylbenzene	<10		ug/kg dw	4.8	10	10/09/2004	mmk		1059	SW 8260B
Vinyl Chloride	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
Xylenes, Total	<10		ug/kg dw	3.4	10	10/09/2004	mmk		1059	SW 8260B
4-Bromofluorobenzene (surr)	96		%			10/09/2004	mmk		1059	SW 8260B
Dibromofluoromethane (surr)	99		%			10/09/2004	mmk		1059	SW 8260B
Toluene-d8 (surr)	98		%			10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
BNA Soil 8270 MDL										
Acenaphthene	<4.0		mg/kg dw	4.0	11.7	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
Anthracene	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
Benztidine	<6.1		mg/kg dw	6.1	18.1	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<2.3		mg/kg dw	2.3	6.49	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<2.3		mg/kg dw	2.3	6.85	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	<2.9		mg/kg dw	2.9	9.07	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	<2.9		mg/kg dw	2.9	9.07	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<5.0		mg/kg dw	5.0	15.1	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<2.7		mg/kg dw	2.7	7.96	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<4.8		mg/kg dw	4.8	14.4	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<4.6		mg/kg dw	4.6	13.7	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	32.8		mg/kg dw	2.0	5.9	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<5.2		mg/kg dw	5.2	15.9	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<2.9		mg/kg dw	2.9	8.88	10/01/2004	ake	115	185	SW 8270C
Carbazole	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<6.43		mg/kg dw	6.43	19.3	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<4.4		mg/kg dw	4.4	12	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<3.4		mg/kg dw	3.4	10.2	10/01/2004	ake	115	185	SW 8270C
Chrysene	<1.8		mg/kg dw	1.8	5.5	10/01/2004	ake	115	185	SW 8270C
Dibenzo(a,h)anthracene	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<2.7		mg/kg dw	2.7	7.96	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<6.36		mg/kg dw	6.36	19.0	10/01/2004	ake	115	185	SW 8270C

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827080	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:30	
1,3-Dichlorobenzene	<5.7		mg/kg dw	5.7	17.0	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<5.2		mg/kg dw	5.2	15.8	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<6.61		mg/kg dw	6.61	19.8	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
Dimethyl phthalate	<2.5		mg/kg dw	2.5	7.77	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<4.0		mg/kg dw	4.0	12.2	10/01/2004	ake	115	185	SW 8270C
Di-n-octylphthalate	<3.8		mg/kg dw	3.8	11	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<2.3		mg/kg dw	2.3	6.68	10/01/2004	ake	115	185	SW 8270C
Fluorene	<3.1		mg/kg dw	3.1	9.81	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<1.7		mg/kg dw	1.7	5.5	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<3.6		mg/kg dw	3.6	10.8	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<4.2		mg/kg dw	4.2	12.3	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<5.0		mg/kg dw	5.0	15.2	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.0		mg/kg dw	2.0	5.7	10/01/2004	ake	115	185	SW 8270C
Isophorone	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	<4.0		mg/kg dw	4.0	11.8	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<4.4		mg/kg dw	4.4	13.6	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<4.4		mg/kg dw	4.4	12	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<4.2		mg/kg dw	4.2	12.9	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<4.6		mg/kg dw	4.6	14.1	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<6.85		mg/kg dw	6.85	20.5	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<2.1		mg/kg dw	2.1	6.30	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<5.2		mg/kg dw	5.2	15.3	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<2.3		mg/kg dw	2.3	7.03	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
Pyrene	<3.1		mg/kg dw	3.1	9.2	10/01/2004	ake	115	185	SW 8270C
Pyridine	<6.91		mg/kg dw	6.91	20.7	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<4.4		mg/kg dw	4.4	13.6	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	92		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	104		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	109		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<20		mg/kg dw	20	61	10/01/2004	ake	115	185	SW 8270C
4-Chloro-3-methylphenol	<4.4		mg/kg dw	4.4	13.3	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<5.2		mg/kg dw	5.2	15.9	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<4.8		mg/kg dw	4.8	14.4	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<5.0		mg/kg dw	5.0	15	10/01/2004	ake	115	185	SW 8270C
Esols, Total	<9.76		mg/kg dw	9.76	29.2	10/01/2004	ake	115	185	SW 8270C
1-Dichlorophenol	<4.6		mg/kg dw	4.6	13.7	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<4.0		mg/kg dw	4.0	11.7	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<1.7		mg/kg dw	1.7	5.2	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<6.49		mg/kg dw	6.49	19.5	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<6.91		mg/kg dw	6.91	20.7	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<4.0		mg/kg dw	4.0	12.2	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
Phenol	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<4.2		mg/kg dw	4.2	12.9	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<3.4		mg/kg dw	3.4	10.0	10/01/2004	ake	115	185	SW 8270C
Phenol-d6 (surr)	52	OOC	%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	51	OOC	%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	69		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
PCB-1016	<1		mg/kg dw	0.6	1	10/13/2004	kak	839	1908	SW 8082
PCB-1221	<1		mg/kg dw	0.8	1	10/13/2004	kak	839	1908	SW 8082
PCB-1232	<1		mg/kg dw	0.1	1	10/13/2004	kak	839	1908	SW 8082
PCB-1242	<1		mg/kg dw	0.2	1	10/13/2004	kak	839	1908	SW 8082
PCB-1248	<1		mg/kg dw	0.08	1	10/13/2004	kak	839	1908	SW 8082
PCB-1254	<1		mg/kg dw	0.1	1	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<1		mg/kg dw	0.6	1	10/13/2004	kak	839	1908	SW 8082
PCB-1268	<1		mg/kg dw	0.3	1	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	**	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr. 82)			%	1	1	10/13/2004	kak	839	1908	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
Cyanide, mdl	0.196		mg/kg dw	0.15	0.69	10/08/2004	lbb		878	SW 9012
Solids, Total	72.91		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	5.42		mg/kg dw	0.29	1.4	10/01/2004	mrn	915	635	SW 7060A
Mercury, mdl	0.073	B	mg/kg dw	0.0016	0.0059	10/12/2004	heh		2066	SW 7471A
GFAA Metals Digestion	1.664		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	1.225		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	27		mg/kg dw	0.267	0.69	10/04/2004	llw	1510	2811	SW 6010B

B - This analyte was detected in the method blank.
 ** - Surrogate not added to the spiking solution.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
Cadmium, (ICP) mdl	0.92		mg/kg dw	0.33	1.2	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	45		mg/kg dw	0.53	1.4	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	32		mg/kg dw	6.9	6.9	10/04/2004	llw	1510	2833	SW 6010B
Selenium, (ICP) mdl	<10		mg/kg dw	10	10	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	<0.78		mg/kg dw	0.78	1.4	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	<11		ug/kg dw	11	33	10/09/2004	mmk		1059	SW 8260B
Benzene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<3.09		ug/kg dw	3.09	9.26	10/09/2004	mmk		1059	SW 8260B
Bromoform	<4.59		ug/kg dw	4.59	13.7	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<6.72		ug/kg dw	6.72	19.9	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.2		ug/kg dw	1.2	2.74	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<6.9		ug/kg dw	0.64	6.9	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<6.9		ug/kg dw	1.99	6.9	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	<6.9		ug/kg dw	0.7	6.9	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<8.2		ug/kg dw	8.2	24.7	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.583		ug/kg dw	0.583	1.749	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.92		ug/kg dw	1.92	5.76	10/09/2004	mmk		1059	SW 8260B
Chloroethane	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.7		ug/kg dw	0.7	2.1	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
4-Chlorotoluene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<14		ug/kg dw	14	41	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<4.05		ug/kg dw	4.05	12.1	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<1.1		ug/kg dw	1.1	3.3	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.459		ug/kg dw	0.459	1.37	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.59		ug/kg dw	0.59	1.77	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mmk		1059	SW 8260
1,1-Dichloropropene	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.1		ug/kg dw	1.1	3.29	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.98		ug/kg dw	3.98	11.9	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.75		ug/kg dw	0.75	2.74	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.7		ug/kg dw	0.7	2.1	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<69		ug/kg dw	9.6	69	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	<0.96		ug/kg dw	0.96	2.74	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
MTBE	<6.51		ug/kg dw	6.51	19.5	10/09/2004	mnk		1059	SW 8260B
Naphthalene	<6.9		ug/kg dw	1.1	6.9	10/09/2004	mnk		1059	SW 8260B
n-Propylbenzene	<6.9		ug/kg dw	0.75	6.9	10/09/2004	mnk		1059	SW 8260B
Styrene	<0.52		ug/kg dw	0.52	1.56	10/09/2004	mnk		1059	SW 8260B
1,1,1,2-Tetrachloroethane	<2.47		ug/kg dw	2.47	7.41	10/09/2004	mnk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mnk		1059	SW 8260B
Tetrachloroethene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mnk		1059	SW 8260B
Toluene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mnk		1059	SW 8260B
1,2,3-Trichlorobenzene	<6.9		ug/kg dw	2.2	6.9	10/09/2004	mnk		1059	SW 8260B
1,2,4-Trichlorobenzene	<6.9		ug/kg dw	0.44	6.9	10/09/2004	mnk		1059	SW 8260B
1,1,1-Trichloroethane	<1.44		ug/kg dw	1.44	4.32	10/09/2004	mnk		1059	SW 8260B
1,1,2-Trichloroethane	<1.6		ug/kg dw	1.6	4.9	10/09/2004	mnk		1059	SW 8260B
Dichloroethylene	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mnk		1059	SW 8260B
Trichlorofluoromethane	<0.60		ug/kg dw	0.60	1.84	10/09/2004	mnk		1059	SW 8260B
1,2,3-Trichloropropane	<1.2		ug/kg dw	1.2	3.7	10/09/2004	mnk		1059	SW 8260B
1,2,4-Trimethylbenzene	<6.9		ug/kg dw	1.9	6.9	10/09/2004	mnk		1059	SW 8260B
1,3,5-Trimethylbenzene	<6.9		ug/kg dw	3.2	6.9	10/09/2004	mnk		1059	SW 8260B
Vinyl Chloride	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mnk		1059	SW 8260B
Xylenes, Total	<6.9		ug/kg dw	2.2	6.9	10/09/2004	mnk		1059	SW 8260B
4-Bromofluorobenzene (surr)	99		%			10/09/2004	mnk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mnk		1059	SW 8260B
Toluene-d8 (surr)	100		%			10/09/2004	mnk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.88		mg/kg dw	0.88	2.58	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
Anthracene	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827081	SAMPLE DESCRIPTION GW-1					DATE-TIME TAKEN 09/27/2004 10:30				
Benzidine	<1.3		mg/kg dw	1.3	4.02	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<0.49		mg/kg dw	0.49	1.43	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<0.49		mg/kg dw	0.49	1.51	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	<0.66		mg/kg dw	0.66	2.00	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	<0.66		mg/kg dw	0.66	2.00	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<1.1		mg/kg dw	1.1	3.33	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<0.60		mg/kg dw	0.60	1.76	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<1.1		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<1.0		mg/kg dw	1.0	3.03	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.44		mg/kg dw	0.44	1.3	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<1.2		mg/kg dw	1.2	3.52	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
Carbazole	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<1.41		mg/kg dw	1.41	4.25	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<0.96		mg/kg dw	0.96	2.7	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<0.77		mg/kg dw	0.77	2.25	10/01/2004	ake	115	185	SW 8270C
Chrysene	<0.41		mg/kg dw	0.41	1.2	10/01/2004	ake	115	185	SW 8270C
Dibenzo(a,h)anthracene	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<0.60		mg/kg dw	0.60	1.76	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<1.40		mg/kg dw	1.40	4.20	10/01/2004	ake	115	185	SW 8270C
1,3-Dichlorobenzene	<1.3		mg/kg dw	1.3	3.77	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<1.2		mg/kg dw	1.2	3.50	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<1.45		mg/kg dw	1.45	4.36	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827081	SAMPLE DESCRIPTION GW-1					DATE-TIME TAKEN 09/27/2004 10:30				
Dimethyl phthalate	<0.58		mg/kg dw	0.58	1.71	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<0.91		mg/kg dw	0.91	2.70	10/01/2004	ake	115	185	SW 8270C
Di-n-octylphthalate	<0.82		mg/kg dw	0.82	2.5	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<0.49		mg/kg dw	0.49	1.47	10/01/2004	ake	115	185	SW 8270C
Fluorene	<0.71		mg/kg dw	0.71	2.17	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.38		mg/kg dw	0.38	1.2	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<0.80		mg/kg dw	0.80	2.37	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<0.93		mg/kg dw	0.93	2.73	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<1.1		mg/kg dw	1.1	3.36	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.44		mg/kg dw	0.44	1.3	10/01/2004	ake	115	185	SW 8270C
Isophorone	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
Methylnaphthalene	<0.88		mg/kg dw	0.88	2.62	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<0.99		mg/kg dw	0.99	3.00	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<0.96		mg/kg dw	0.96	2.7	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<0.93		mg/kg dw	0.93	2.84	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<1.0		mg/kg dw	1.0	3.11	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<1.51		mg/kg dw	1.51	4.53	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.47		mg/kg dw	0.47	1.39	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<1.2		mg/kg dw	1.2	3.39	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<0.52		mg/kg dw	0.52	1.55	10/01/2004	ake	115	185	SW 8270C
Pyrene	<0.69		mg/kg dw	0.69	2.1	10/01/2004	ake	115	185	SW 8270C
Pyridine	<1.52		mg/kg dw	1.52	4.58	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<0.99		mg/kg dw	0.99	3.00	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	88		%			10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

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10/25/2004

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Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
827081	GW-1					09/27/2004 10:30					
2-Fluorobiphenyl (surr)	102		%			10/01/2004	ake	115	185	SW 8270C	
Terphenyl-d14 (surr)	107		%			10/01/2004	ake	115	185	SW 8270C	
Benzoic Acid	<4.4		mg/kg dw	4.4	14	10/01/2004	ake	115	185	SW 8270C	
4-Chloro-3-methylphenol	<0.99		mg/kg dw	0.99	2.95	10/01/2004	ake	115	185	SW 8270C	
2-chlorophenol	<1.2		mg/kg dw	1.2	3.52	10/01/2004	ake	115	185	SW 8270C	
2-Methylphenol	<1.1		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C	
4-Methylphenol	<1.1		mg/kg dw	1.1	3.3	10/01/2004	ake	115	185	SW 8270C	
Cresols, Total	<2.15		mg/kg dw	2.15	6.47	10/01/2004	ake	115	185	SW 8270C	
2,4-Dichlorophenol	<1.0		mg/kg dw	1.0	3.03	10/01/2004	ake	115	185	SW 8270C	
2,4-Dimethylphenol	<0.88		mg/kg dw	0.88	2.58	10/01/2004	ake	115	185	SW 8270C	
2,4-Dinitrophenol	<0.38		mg/kg dw	0.38	1.2	10/01/2004	ake	115	185	SW 8270C	
2-Methyl-4,6-dinitrophenol	<1.43		mg/kg dw	1.43	4.31	10/01/2004	ake	115	185	SW 8270C	
2-Nitrophenol	<1.52		mg/kg dw	1.52	4.58	10/01/2004	ake	115	185	SW 8270C	
4-Nitrophenol	<0.91		mg/kg dw	0.91	2.70	10/01/2004	ake	115	185	SW 8270C	
Pentachlorophenol	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C	
Phenol	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C	
2,4,5-Trichlorophenol	<0.93		mg/kg dw	0.93	2.84	10/01/2004	ake	115	185	SW 8270C	
2,4,6-Trichlorophenol	<0.74		mg/kg dw	0.74	2.21	10/01/2004	ake	115	185	SW 8270C	
Phenol-d6 (surr)	94		%			10/01/2004	ake	115	185	SW 8270C	
2-Fluorophenol (surr)	89		%			10/01/2004	ake	115	185	SW 8270C	
Tribromophenol (surr)	101		%			10/01/2004	ake	115	185	SW 8270C	
PCB's Non-Aqueous		R									
PCB-1016	<0.7		mg/kg dw	0.4	0.7	10/13/2004	kak	839	1908	SW 8082	
PCB-1221	<0.7		mg/kg dw	0.5	0.7	10/13/2004	kak	839	1908	SW 8082	
PCB-1232	<0.7		mg/kg dw	0.08	0.7	10/13/2004	kak	839	1908	SW 8082	
PCB-1242	<0.7		mg/kg dw	0.1	0.7	10/13/2004	kak	839	1908	SW 8082	

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
PCB-1248	<0.7		mg/kg dw	0.05	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1254	<0.7		mg/kg dw	0.07	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<0.7		mg/kg dw	0.4	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1268	<0.7		mg/kg dw	0.2	0.7	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	**	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr.)	64		%	1	1	10/13/2004	kak	839	1908	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827082	FD-3	09/28/2004 12:00
135 VOC Preservation	Complete	09/28/2004 sml 20 SW 846 - 5035
Cyanide, mdl	0.463	10/08/2004 lbb 878 SW 9012
Solids, Total	90.50	09/29/2004 sas 2772 SM 2540 G
Arsenic, (GFAA) mdl	2.56	10/01/2004 mrm 915 635 SW 7060A
Mercury, mdl	1.7	B 10/12/2004 heh 2066 SW 7471A
GFAA Metals Digestion	1.018	g 09/30/2004 tdo 915 SW 3050 B
ICP Metals Prep (Solid)	1.024	g 09/30/2004 tdo 1510 SW 3050 B
ICP Metals-Solid mdl		IE
Barium, (ICP) mdl	2,870	mg/kg dw 0.215 0.55 10/04/2004 llw 1510 2811 SW 6010B
Cadmium, (ICP) mdl	19	mg/kg dw 0.27 0.93 10/04/2004 llw 1510 2817 SW 6010B
Chromium, (ICP) mdl	276	mg/kg dw 0.43 1.1 10/04/2004 llw 1510 2816 SW 6010B
Lead, (ICP) mdl	254	mg/kg dw 5.5 5.5 10/04/2004 llw 1510 2833 SW 6010B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.
 ** - Surrogate not added to the spiking solution.

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
Selenium, (ICP) mdl	<17		mg/kg dw	8.3	8.3	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	1.7		mg/kg dw	0.63	1.1	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	812	E	ug/kg dw	8.8	27	10/09/2004	mmk		1059	SW 8260B
Benzene	1.59		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.77		ug/kg dw	0.77	2.32	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<2.49		ug/kg dw	2.49	7.46	10/09/2004	mmk		1059	SW 8260B
Bromoform	<3.70		ug/kg dw	3.70	11.0	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<5.41		ug/kg dw	5.41	16.0	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	25.0		ug/kg dw	0.94	2.21	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<5.5		ug/kg dw	0.52	5.5	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<5.5		ug/kg dw	1.60	5.5	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	<5.5		ug/kg dw	0.6	5.5	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<6.6		ug/kg dw	6.6	19.9	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.470		ug/kg dw	0.470	1.409	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.55		ug/kg dw	1.55	4.64	10/09/2004	mmk		1059	SW 8260B
Chloroethane	8.91		ug/kg dw	0.77	2.32	10/09/2004	mmk		1059	SW 8260B
Chloroform	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.7	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<0.61		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	33	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<3.26		ug/kg dw	3.26	9.78	10/09/2004	mmk		1059	SW 8260B

E - Estimated concentration for this analyte

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
Dibromomethane	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<0.88		ug/kg dw	0.88	2.7	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.370		ug/kg dw	0.370	1.10	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.48		ug/kg dw	0.48	1.43	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
2-Dichloropropane	<0.40		ug/kg dw	0.40	1.19	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloropropene	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	0.94		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.20		ug/kg dw	3.20	9.61	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.61		ug/kg dw	0.61	2.21	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	<0.40		ug/kg dw	0.40	1.19	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.6		ug/kg dw	0.6	1.7	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<55		ug/kg dw	7.7	55	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	<0.77		ug/kg dw	0.77	2.21	10/09/2004	mmk		1059	SW 8260B
MTBE	<5.25		ug/kg dw	5.25	15.7	10/09/2004	mmk		1059	SW 8260B
Naphthalene	<5.5		ug/kg dw	0.88	5.5	10/09/2004	mmk		1059	SW 8260B
n-Propylbenzene	<5.5		ug/kg dw	0.61	5.5	10/09/2004	mmk		1059	SW 8260B

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
Styrene	<0.42		ug/kg dw	0.42	1.26	10/09/2004	mmk		1059	SW 8260B
1,1,1,2-Tetrachloroethane	<1.99		ug/kg dw	1.99	5.97	10/09/2004	mmk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
Tetrachloroethene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mmk		1059	SW 8260B
Toluene	3.59		ug/kg dw	0.77	2.32	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichlorobenzene	<5.5		ug/kg dw	1.8	5.5	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trichlorobenzene	<5.5		ug/kg dw	0.35	5.5	10/09/2004	mmk		1059	SW 8260B
1,1,1-Trichloroethane	9.78		ug/kg dw	1.16	3.48	10/09/2004	mmk		1059	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	4.0	10/09/2004	mmk		1059	SW 8260B
Trichloroethylene	16.4		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
Trichlorofluoromethane	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichloropropane	<0.99		ug/kg dw	0.99	3.0	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trimethylbenzene	<5.5		ug/kg dw	1.5	5.5	10/09/2004	mmk		1059	SW 8260B
1,3,5-Trimethylbenzene	<5.5		ug/kg dw	2.5	5.5	10/09/2004	mmk		1059	SW 8260B
Vinyl Chloride	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
Xylenes, Total	<5.5		ug/kg dw	1.8	5.5	10/09/2004	mmk		1059	SW 8260B
4-Bromofluorobenzene (surr)	97		%			10/09/2004	mmk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mmk		1059	SW 8260B
Toluene-d8 (surr)	99		%			10/09/2004	mmk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.71		mg/kg dw	0.71	2.09	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
Anthracene	<0.44		mg/kg dw	0.44	1.29	10/01/2004	ake	115	185	SW 8270C
Benzidine	<1.1		mg/kg dw	1.1	3.25	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<0.40		mg/kg dw	0.40	1.16	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<0.40		mg/kg dw	0.40	1.23	10/01/2004	ake	115	185	SW 8270C

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827082	FD-3					09/28/2004 12:00				
Benzo(k)fluoranthene	<0.53		mg/kg dw	0.53	1.62	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	<0.53		mg/kg dw	0.53	1.62	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	<0.44		mg/kg dw	0.44	1.29	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<0.88		mg/kg dw	0.88	2.70	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<0.49		mg/kg dw	0.49	1.43	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<0.86		mg/kg dw	0.86	2.59	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<0.82		mg/kg dw	0.82	2.45	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	10.4		mg/kg dw	0.35	1.1	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<0.95		mg/kg dw	0.95	2.85	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<0.53		mg/kg dw	0.53	1.59	10/01/2004	ake	115	185	SW 8270C
Carbazole	<0.44		mg/kg dw	0.44	1.29	10/01/2004	ake	115	185	SW 8270C
2-Chloroaniline	<1.15		mg/kg dw	1.15	3.45	10/01/2004	ake	115	185	SW 8270C
1-Chloronaphthalene	<0.77		mg/kg dw	0.77	2.2	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<0.62		mg/kg dw	0.62	1.82	10/01/2004	ake	115	185	SW 8270C
Chrysene	<0.33		mg/kg dw	0.33	0.99	10/01/2004	ake	115	185	SW 8270C
Dibenzo(a,h)anthracene	<0.84		mg/kg dw	0.84	2.56	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	<0.53		mg/kg dw	0.53	1.56	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	5.3		mg/kg dw	0.49	1.43	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<1.14		mg/kg dw	1.14	3.40	10/01/2004	ake	115	185	SW 8270C
1,3-Dichlorobenzene	<1.0		mg/kg dw	1.0	3.05	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<0.93		mg/kg dw	0.93	2.83	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<1.18		mg/kg dw	1.18	3.54	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<0.53		mg/kg dw	0.53	1.56	10/01/2004	ake	115	185	SW 8270C
Dimethyl phthalate	<0.46		mg/kg dw	0.46	1.39	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	<0.53		mg/kg dw	0.53	1.56	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<0.73		mg/kg dw	0.73	2.19	10/01/2004	ake	115	185	SW 8270C

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
Di-n-octylphthalate	<0.66		mg/kg dw	0.66	2.0	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<0.40		mg/kg dw	0.40	1.19	10/01/2004	ake	115	185	SW 8270C
Fluorene	<0.57		mg/kg dw	0.57	1.76	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.31		mg/kg dw	0.31	0.97	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<0.64		mg/kg dw	0.64	1.92	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<0.75		mg/kg dw	0.75	2.21	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<0.91		mg/kg dw	0.91	2.72	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.35		mg/kg dw	0.35	1.0	10/01/2004	ake	115	185	SW 8270C
Isophorone	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	<0.71		mg/kg dw	0.71	2.12	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<0.80		mg/kg dw	0.80	2.43	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<0.77		mg/kg dw	0.77	2.2	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<0.75		mg/kg dw	0.75	2.30	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<0.84		mg/kg dw	0.84	2.52	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<1.23		mg/kg dw	1.23	3.67	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.38		mg/kg dw	0.38	1.13	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<0.93		mg/kg dw	0.93	2.74	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<0.42		mg/kg dw	0.42	1.26	10/01/2004	ake	115	185	SW 8270C
Pyrene	<0.55		mg/kg dw	0.55	1.7	10/01/2004	ake	115	185	SW 8270C
Pyridine	<1.24		mg/kg dw	1.24	3.71	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<0.80		mg/kg dw	0.80	2.43	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	97		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	103		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<3.5		mg/kg dw	3.5	11	10/01/2004	ake	115	185	SW 8270C

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SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
4-Chloro-3-methylphenol	<0.80		mg/kg dw	0.80	2.39	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<0.95		mg/kg dw	0.95	2.85	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<0.86		mg/kg dw	0.86	2.59	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<0.88		mg/kg dw	0.88	2.7	10/01/2004	ake	115	185	SW 8270C
Cresols, Total	<1.75		mg/kg dw	1.75	5.24	10/01/2004	ake	115	185	SW 8270C
2,4-Dichlorophenol	<0.82		mg/kg dw	0.82	2.45	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<0.71		mg/kg dw	0.71	2.09	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<0.31		mg/kg dw	0.31	0.93	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<1.16		mg/kg dw	1.16	3.49	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<1.24		mg/kg dw	1.24	3.71	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<0.73		mg/kg dw	0.73	2.19	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	2.5		mg/kg dw	0.84	2.56	10/01/2004	ake	115	185	SW 8270C
phenol	<0.84		mg/kg dw	0.84	2.56	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<0.75		mg/kg dw	0.75	2.30	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<0.60		mg/kg dw	0.60	1.79	10/01/2004	ake	115	185	SW 8270C
Phenol-d6 (surr)	73		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	69		%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	86		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<2.8		mg/kg dw	1.7	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1221	<2.8		mg/kg dw	2.1	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1232	<2.8		mg/kg dw	0.32	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1242	<2.8		mg/kg dw	0.54	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1248	<2.8		mg/kg dw	0.21	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1254	3.43		mg/kg dw	0.28	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<2.8		mg/kg dw	1.5	2.8	10/13/2004	kak	839	1908	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
PCB-1268	<2.8		mg/kg dw	0.70	2.8	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	**	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr.)	116		%	1	1	10/13/2004	kak	839	1908	SW 8082

** - Surrogate not added to the spiking solution.

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1402	247.5	ug/L	263	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	259	105		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	262	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	261	106		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	129	104		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	128	103		10/04/2004
Cyanide, mdl		878	0.2475	mg/kg	0.245	99		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.243	98		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.247	100		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.121	98		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.120	97		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.119	96		10/08/2004
Dissolved ICP Metals		1702	1.0		1.0	100		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.10	102		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.09	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.10	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.00	100		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	1.01	101		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	0.9839	98		10/06/2004
Arsenic, (GFAA) LL mdl		75	0.0225	mg/L	0.0215	96		10/01/2004
Arsenic, (GFAA) LL mdl		75	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0228	101		10/01/2004
Cadmium, (GFAA) mdl		59	0.0010	mg/L	0.00098	98		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00109	109		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00108	108		10/01/2004
Lead, (GFAA) mdl		98	0.0250	mg/L	0.0269	108		10/04/2004
Lead, (GFAA) mdl		98	0.0250	mg/L	0.0270	108		10/04/2004
Lead, Diss (GFAA) mdl		46	0.0250	mg/L	0.0270	108		10/04/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

 Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
MTBE		5796	50.0	ug/L	57.7	115		10/02/2004
1,2,4-Trimethylbenzene		5796	50.0	ug/L	51.0	102		10/02/2004
Toluene		5796	50.0	ug/L	53.8	108		10/02/2004
1,3,5-Trimethylbenzene		5796	50.0	ug/L	51.1	102		10/02/2004
Trichloroethylene		5796	50.0	ug/L	54.0	108		10/02/2004
Xylenes, Total		5796	150.0	ug/L	159	106		10/02/2004
Dibromofluoromethane (surr)		5796	100	%	106	106		10/02/2004
Toluene-d8 (surr)		5796	100	%	97	97		10/02/2004
4-Bromofluorobenzene (surr)		5796	100	%	101	101		10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1059	50.0	ug/L	49.3	99		10/09/2004
Bromoform		1059	50.0	ug/L	53.4	107		10/09/2004
Chlorobenzene		1059	50.0	ug/L	51.4	103		10/09/2004
1,1-Dichloroethane		1059	50.0	ug/L	48.5	97		10/09/2004
1,1-Dichloroethene		1059	50.0	ug/L	49.1	98		10/09/2004
Ethylbenzene		1059	50.0	ug/L	51.7	103		10/09/2004
MTBE		1059	50.0	ug/L	49.6	99		10/09/2004
1,1,2,2-Tetrachloroethane		1059	50.0	ug/L	49.9	100		10/09/2004
Toluene		1059	50.0	ug/L	49.2	98		10/09/2004
Trichloroethylene		1059	50.0	ug/L	51.8	104		10/09/2004
1,2,4-Trimethylbenzene		1059	50.0	ug/L	50.4	101		10/09/2004
1,3,5-Trimethylbenzene		1059	50.0	ug/L	51.7	103		10/09/2004
Vinyl Chloride		1059	50.0	ug/L	45.5	91		10/09/2004
Xylenes, Total		1059	150.0	ug/L	152	101		10/09/2004
4-Bromofluorobenzene (surr)		1059	100	%	104	104		10/09/2004
Dibromofluoromethane (surr)		1059	100	%	98	98		10/09/2004
Toluene-d8 (surr)		1059	100	%	101	101		10/09/2004
BNA Soil 8270 MDL								
Acenaphthene		185	50	ug/L	50	100		09/30/2004
Bis(2-ethylhexyl)phthalate		185	50	ug/L	50	100		09/30/2004
1,4-Dichlorobenzene		185	50	ug/L	49	98		09/30/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

 Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Lead, Diss (GFAA) mdl		46	0.0250	mg/L	0.0269	108		10/04/2004
Mercury, mdl		2430	1.000	ug/L	1.10	110		10/06/2004
Mercury, diss mdl		800	1.00	ug/L	0.9804	98		10/06/2004
Selenium, Diss (GFAA) mdl		40	0.0250	mg/L	0.02654	106		10/04/2004
Selenium, Diss (GFAA) mdl		40	0.0250	mg/L	0.02634	105		10/04/2004
Selenium, (GFAA) mdl		65	0.0250	mg/L	0.0243	97		10/04/2004
Arsenic, (GFAA) mdl		635	0.0375	mg/L	0.0412	110		10/01/2004
Mercury, mdl		2066	1.00	mg/L	1.05	105		10/12/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2811	5.00	mg/L	5.20	104		10/04/2004
Barium, (ICP) mdl		2811	5.00	mg/L	5.40	108		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.92	98		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.99	100		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	4.85	97		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	5.08	102		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.96	99		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.98	100		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	4.95	99		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	5.05	101		10/04/2004
ICP Metals SW-6010B mdl								
Barium, (ICP) mdl		6421	5.00	mg/L	5.01	100		10/04/2004
Barium, (ICP) mdl		6421	5.00	mg/L	5.02	100		10/04/2004
Chromium, (ICP) mdl		6437	5.00	mg/L	4.98	100		10/04/2004
Chromium, (ICP) mdl		6437	5.00	mg/L	4.83	97		10/04/2004
Silver, (ICP) mdl		6435	1.00	mg/L	0.9971	100		10/04/2004
Silver, (ICP) mdl		6435	1.00	mg/L	0.9815	98		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	50.0	ug/L	56.2	112		10/02/2004
Chlorobenzene		5796	50.0	ug/L	51.8	104		10/02/2004
1,1-Dichloroethene		5796	50.0	ug/L	66.0	132		10/02/2004
Ethylbenzene		5796	50.0	ug/L	52.9	106		10/02/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
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8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2,4-Dinitrotoluene		185	50	ug/L	51	102		09/30/2004
N-Nitrosodi-n-propylamine		185	50	ug/L	50	100		09/30/2004
Pyrene		185	50	ug/L	50	100		09/30/2004
1,2,4-Trichlorobenzene		185	50	ug/L	50	100		09/30/2004
Nitrobenzene-d5 (surr)		185	50.0	%	49.5	99		09/30/2004
2-Fluorobiphenyl (surr)		185	50.0	%	50.1	100		09/30/2004
Terphenyl-d14 (surr)		185	50.0	%	49.3	99		09/30/2004
4-Chloro-3-methylphenol		185	50	ug/L	50	100		09/30/2004
2-chlorophenol		185	50	ug/L	49	98		09/30/2004
4-Nitrophenol		185	50	ug/L	50	100		09/30/2004
Pentachlorophenol		185	50	ug/L	43	86		09/30/2004
Phenol		185	50	ug/L	50	100		09/30/2004
Phenol-d6 (surr)		185	100	%	50	100		09/30/2004
2-Fluorophenol (surr)		185	100	%	49	98		09/30/2004
Tribromophenol (surr)		185	100	%	49	98		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		851	60.00	ug/L	59.4	99		10/07/2004
1,4-Dichlorobenzene		851	60.00	ug/L	58.1	97		10/07/2004
2,4-Dinitrotoluene		851	60.00	ug/L	66.2	110		10/07/2004
N-Nitrosodi-n-propylamine		851	60.00	ug/L	57.3	96		10/07/2004
Pyrene		851	60.00	ug/L	58.3	97		10/07/2004
1,2,4-Trichlorobenzene		851	60.00	ug/L	58.3	97		10/07/2004
Nitrobenzene-d5 (surr)		851	60.00	ug/L	63.0	105		10/07/2004
2-Fluorobiphenyl (surr)		851	60.00	ug/L	59.6	99		10/07/2004
Terphenyl-d14 (surr)		851	60.00	ug/L	59.3	99		10/07/2004
4-Chloro-3-methylphenol		851	60.00	ug/L	61.4	102		10/07/2004
2-chlorophenol		851	60.00	ug/L	59.6	99		10/07/2004
4-Nitrophenol		851	60.00	ug/L	67.9	113		10/07/2004
Pentachlorophenol		851	60.00	ug/L	64.5	108		10/07/2004
Phenol		851	60.00	ug/L	59.1	98		10/07/2004
Phenol-d6 (surr)		851	120.0	ug/L	120	100		10/07/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2-Fluorophenol (surr)		851	120.0	ug/L	118	98		10/07/2004
Tribromophenol (surr)		851	120.0	ug/L	133	111		10/07/2004
PCB's Non-Aqueous								
PCB-1254		1908	0.96	ppm	0.88	92		10/13/2004
Decachlorobiphenyl (Surr.)		1908	100	%	104	104		10/13/2004
Tetrachlorometaxylene (Surr.)		1908	100	%	104	104		10/13/2004
PCB's Non-Aqueous								
PCB-1254		1908	0.96	ppm	0.91	95		10/13/2004
Decachlorobiphenyl (Surr.)		1908	100	%	105	105		10/13/2004
Tetrachlorometaxylene (Surr.)		1908	100	%	111	111		10/13/2004
PCB's Non-Aqueous								
PCB-1248		1909	0.96	ppm	0.88	92		10/13/2004
Decachlorobiphenyl (Surr.)		1909	100	%	112	112		10/13/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	113	113		10/13/2004
PCB's Non-Aqueous								
PCB-1254		1909	0.96	ppm	0.91	95		10/13/2004
Decachlorobiphenyl (Surr.)		1909	100	%	105	105		10/13/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	111	111		10/13/2004
PCB's Non-Aqueous								
PCB-1248		1909	0.96	ppm	0.85	88		10/14/2004
Decachlorobiphenyl (Surr.)		1909	100	%	103	103		10/14/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	112	112		10/14/2004
PCB's Non-Aqueous								
PCB-1254		1909	0.96	ppm	0.95	99		10/14/2004
Decachlorobiphenyl (Surr.)		1909	100	%	105	105		10/14/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	110	110		10/14/2004
PCBs Wisconsin Aqueous								
PCB-1248		650	0.64	ppm	0.61	95		10/06/2004
Decachlorobiphenyl (Surr.)		650	100	%	95	95		10/06/2004
Tetrachlorometaxylene (Surr.)		650	100	%	95	95		10/06/2004
PCBs Wisconsin Aqueous								

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
PCB-1248		650	0.96	ppm	0.96	100		10/07/2004
Decachlorobiphenyl (Surr.)		650	100	%	107	107		10/07/2004
Tetrachlorometaxylene (Surr.)		650	100	%	99	99		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248		651	0.64	ppm	0.62	97		10/07/2004
Decachlorobiphenyl (Surr.)		651	100	%	105	105		10/07/2004
Tetrachlorometaxylene (Surr.)		651	100	%	95	95		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248		651	0.64	ppm	0.62	97		10/08/2004
Decachlorobiphenyl (Surr.)		651	100	%	86	86		10/08/2004
Tetrachlorometaxylene (Surr.)		651	100	%	96	96		10/08/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1402	<0.0022		mg/L	0.0022	0.0078	10/04/2004
Dissolved ICP Metals		1702	COMPLETE					10/06/2004
Barium, Diss (ICP) mdl		6426	<0.0013		mg/L	0.0013	0.0047	10/06/2004
Chromium, Diss (ICP) mdl		6442	<0.0026		mg/L	0.0026	0.0092	10/06/2004
Silver, Diss (ICP) mdl		6440	<0.0038		mg/L	0.0038	0.0136	10/06/2004
Arsenic, (GFAA) LL mdl	3029	75	<0.00040		mg/L	0.00040	0.0014	10/01/2004
Arsenic, Diss (GFAA) mdl		52	<0.00036		mg/L	0.00036	0.0013	10/01/2004
Cadmium, (GFAA) mdl	3029	59	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Cadmium, Diss (GFAA) mdl		40	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Lead, (GFAA) mdl	3029	98	<0.00050		mg/L	0.00050	0.0018	10/04/2004
Lead, Diss (GFAA) mdl		46	<0.00050		mg/L	0.00050	0.0018	10/04/2004
Mercury, mdl		2430	0.037	B	ug/L	0.017	0.061	10/06/2004
Mercury, diss mdl		800	0.037	B	ug/L	0.017	0.061	10/06/2004
Selenium, Diss (GFAA) mdl		40	<0.0015		mg/L	0.0015	0.0053	10/04/2004
Selenium, (GFAA) mdl	3029	65	0.0023	B	mg/L	0.0015	0.0053	10/04/2004
Arsenic, (GFAA) mdl	915	635	<0.0021		mg/L	0.21	1.0	10/01/2004
Mercury, mdl		2066	0.0028	B	mg/kg	0.0012	0.0043	10/12/2004
Barium, (ICP) mdl	1510	2811	<0.0039		mg/L	0.195	0.50	10/04/2004
Cadmium, (ICP) mdl	1510	2817	<0.0048		mg/L	0.24	0.84	10/04/2004
Chromium, (ICP) mdl	1510	2816	<0.0078		mg/L	0.39	1.0	10/04/2004
Lead, (ICP) mdl	1510	2833	<0.10		mg/L	5.0	5.0	10/04/2004
Selenium, (ICP) mdl	1510	2810	<0.15		mg/L	7.5	7.5	10/04/2004
Silver, (ICP) mdl	1510	645	<0.0114		mg/L	0.57	1.0	10/04/2004
Barium, (ICP) mdl	4078	6421	<0.0013		mg/L	0.0013	0.0047	10/04/2004
Chromium, (ICP) mdl	4078	6437	0.0052		mg/L	0.0026	0.0092	10/04/2004
Silver, (ICP) mdl	4078	6435	<0.0038		mg/L	0.0038	0.0136	10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Bromodichloromethane		5796	<0.46		ug/L	0.46	1.4	10/02/2004
Bromoform		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Bromomethane		5796	<0.62		ug/L	0.62	1.9	10/02/2004
Bromobenzene		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Carbon disulfide		5796	<0.25		ug/L	0.25	0.75	10/02/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bromochloromethane		5796	<0.40		ug/L	0.40	1.2	10/02/2004
Carbon tetrachloride		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Dibromomethane		5796	<0.44		ug/L	0.44	1.3	10/02/2004
Chlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
n-Butylbenzene		5796	0.54	B	ug/L	0.13	0.39	10/02/2004
sec-Butylbenzene		5796	0.31	B	ug/L	0.16	0.48	10/02/2004
tert-Butylbenzene		5796	0.33	B	ug/L	0.25	0.75	10/02/2004
Chloroethane		5796	<0.12		ug/L	0.12	0.36	10/02/2004
Chloroform		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Chloromethane		5796	<0.24		ug/L	0.24	0.72	10/02/2004
2-Chlorotoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
4-Chlorotoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Chlorodibromomethane		5796	<0.42		ug/L	0.42	1.3	10/02/2004
1,2-Dibromo-3-chloropropane		5796	<0.30		ug/L	0.30	0.90	10/02/2004
1,2-Dibromoethane (EDB)		5796	<0.42		ug/L	0.42	1.3	10/02/2004
1,2-Dichlorobenzene		5796	0.29	B	ug/L	0.25	0.75	10/02/2004
1,3-Dichlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,4-Dichlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Dichlorodifluoromethane		5796	<0.40		ug/L	0.4	1.2	10/02/2004
1,1-Dichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,2-Dichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Di-Isopropylether		5796	<0.32		ug/L	0.32	0.96	10/02/2004
1,3-Dichloropropane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
2,2-Dichloropropane		5796	<0.73		ug/L	0.73	2.2	10/02/2004
1,1-Dichloropropene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,1-Dichloroethene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
trans-1,2-Dichloroethene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
cis-1,2-Dichloroethene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
1,2-Dichloropropane		5796	<0.12		ug/L	0.12	0.36	10/02/2004
cis-1,3-Dichloropropene		5796	<0.43		ug/L	0.43	1.2	10/02/2004
trans-1,3-Dichloropropene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
Hexachlorobutadiene		5796	1.78	B	ug/L	0.22	0.66	10/02/2004
Ethylbenzene		5796	<0.43		ug/L	0.43	1.3	10/02/2004

QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Isopropylbenzene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
p-Isopropyltoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Hexane		5796	<0.18		ug/L	0.18	0.54	10/02/2004
MTBE		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Methylene chloride		5796	<0.63		ug/L	0.63	1.9	10/02/2004
Napthalene		5796	3.43	B	ug/L	0.86	2.6	10/02/2004
n-Propylbenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Styrene		5796	<0.41		ug/L	0.41	1.2	10/02/2004
1,1,1,2-Tetrachloroethane		5796	<0.40		ug/L	0.40	1.2	10/02/2004
1,1,2,2-Tetrachloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,2,3-Trichlorobenzene		5796	4.05	B	ug/L	0.40	1.2	10/02/2004
1,2,4-Trichlorobenzene		5796	2.10	B	ug/L	0.25	0.75	10/02/2004
Tetrachloroethene		5796	<0.37		ug/L	0.37	1.1	10/02/2004
1,2,3-Trichloropropane		5796	<0.49		ug/L	0.49	1.5	10/02/2004
1,2,4-Trimethylbenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Toluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,3,5-Trimethylbenzene		5796	0.17	B	ug/L	0.14	0.42	10/02/2004
1,1,1-Trichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,1,2-Trichloroethane		5796	<0.10		ug/L	0.10	0.3	10/02/2004
Trichloroethylene		5796	<0.43		ug/L	0.43	1.3	10/02/2004
Trichlorofluoromethane		5796	<0.47		ug/L	0.47	1.4	10/02/2004
Vinyl chloride		5796	<0.47		ug/L	0.47	1.4	10/02/2004
Xylenes, Total		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Dibromofluoromethane (surr)		5796	116.0		%			10/02/2004
Toluene-d8 (surr)		5796	88.0		%			10/02/2004
4-Bromofluorobenzene (surr)		5796	88.0		%			10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1059	<8.0		ug/kg	8.0	24	10/09/2004
Benzene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
Bromobenzene		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
Bromochloromethane		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
Bromodichloromethane		1059	<2.25		ug/kg	2.25	6.75	10/09/2004
Bromoform		1059	<3.35		ug/kg	3.35	10.0	10/09/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bromomethane		1059	<4.90		ug/kg	4.90	14.5	10/09/2004
Methyl ethyl ketone (MEK)		1059	<0.85		ug/kg	0.85	2.00	10/09/2004
n-Butylbenzene		1059	<5.0		ug/kg	0.47	5.0	10/09/2004
sec-Butylbenzene		1059	<5.0		ug/kg	1.45	5.0	10/09/2004
tert-Butylbenzene		1059	<5.0		ug/kg	0.5	5.0	10/09/2004
Carbon tetrachloride		1059	<6.0		ug/kg	6.0	18.0	10/09/2004
Chlorobenzene		1059	<0.425		ug/kg	0.425	1.275	10/09/2004
Chlorodibromomethane		1059	<1.40		ug/kg	1.40	4.20	10/09/2004
Chloroethane		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
Chloroform		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
Chloromethane		1059	<0.5		ug/kg	0.5	1.5	10/09/2004
2-Chlorotoluene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
4-Chlorotoluene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
1,2-Dibromo-3-chloropropane		1059	<10		ug/kg	10	30	10/09/2004
1,2-Dibromoethane (EDB)		1059	<2.95		ug/kg	2.95	8.85	10/09/2004
Dibromomethane		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
1,2-Dichlorobenzene		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,3-Dichlorobenzene		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,4-Dichlorobenzene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
Dichlorodifluoromethane		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
1,1-Dichloroethane		1059	<0.80		ug/kg	0.80	2.4	10/09/2004
1,2-Dichloroethane		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,1-Dichloroethene		1059	<0.335		ug/kg	0.335	1.00	10/09/2004
cis-1,2-Dichloroethene		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
trans-1,2-Dichloroethene		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
1,2-Dichloropropane		1059	<0.43		ug/kg	0.43	1.29	10/09/2004
1,3-Dichloropropane		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
2,2-Dichloropropane		1059	<0.36		ug/kg	0.36	1.08	10/09/2004
1,1-Dichloropropene		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
cis-1,3-Dichloropropene		1059	<0.80		ug/kg	0.80	2.40	10/09/2004
trans-1,3-Dichloropropene		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
Ethylbenzene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
Hexachlorobutadiene		1059	<2.90		ug/kg	2.90	8.70	10/09/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
2-Hexanone		1059	<0.55		ug/kg	0.55	2.00	10/09/2004
Isopropylbenzene		1059	<0.36		ug/kg	0.36	1.08	10/09/2004
p-Isopropyltoluene		1059	<0.5		ug/kg	0.5	1.5	10/09/2004
Methylene chloride		1059	<50		ug/kg	7.0	50	10/09/2004
Methyl isobutyl ketone		1059	<0.70		ug/kg	0.70	2.00	10/09/2004
MTBE		1059	<4.75		ug/kg	4.75	14.2	10/09/2004
Naphthalene		1059	<5.0		ug/kg	0.80	5.0	10/09/2004
n-Propylbenzene		1059	<5.0		ug/kg	0.55	5.0	10/09/2004
Styrene		1059	<0.38		ug/kg	0.38	1.14	10/09/2004
1,1,1,2-Tetrachloroethane		1059	<1.80		ug/kg	1.80	5.40	10/09/2004
1,1,2,2-Tetrachloroethane		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
Tetrachloroethene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
Toluene		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
1,2,3-Trichlorobenzene		1059	<5.0		ug/kg	1.6	5.0	10/09/2004
1,2,4-Trichlorobenzene		1059	<5.0		ug/kg	0.32	5.0	10/09/2004
1,1,1-Trichloroethane		1059	<1.05		ug/kg	1.05	3.15	10/09/2004
1,1,2-Trichloroethane		1059	<1.2		ug/kg	1.2	3.6	10/09/2004
Trichloroethylene		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
Trichlorofluoromethane		1059	<0.44		ug/kg	0.44	1.34	10/09/2004
1,2,3-Trichloropropane		1059	<0.90		ug/kg	0.90	2.7	10/09/2004
1,2,4-Trimethylbenzene		1059	<5.0		ug/kg	1.4	5.0	10/09/2004
1,3,5-Trimethylbenzene		1059	<5.0		ug/kg	2.3	5.0	10/09/2004
Vinyl Chloride		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
Xylenes, Total		1059	<5.0		ug/kg	1.6	5.0	10/09/2004
4-Bromofluorobenzene (surr)		1059	100		%			10/09/2004
Dibromofluoromethane (surr)		1059	102		%			10/09/2004
Toluene-d8 (surr)		1059	97		%			10/09/2004
BNA Soil 8270 MDL								
Acenaphthene	115	185	<0.063		mg/kg	0.063	0.189	09/30/2004
Acenaphthylene	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
Anthracene	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
Benzidine	115	185	<0.098		mg/kg	0.098	0.294	09/30/2004
Benzo(a)anthracene	115	185	<0.035		mg/kg	0.035	0.105	09/30/2004

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Benzo (b) fluoranthene	115	185	<0.037		mg/kg	0.037	0.111	09/30/2004
Benzo (k) fluoranthene	115	185	<0.049		mg/kg	0.049	0.147	09/30/2004
Benzo (a) pyrene	115	185	<0.049		mg/kg	0.049	0.147	09/30/2004
Benzo (ghi) perylene	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
Benzyl alcohol	115	185	<0.081		mg/kg	0.081	0.243	09/30/2004
Benzyl butyl phthalate	115	185	<0.043		mg/kg	0.043	0.129	09/30/2004
Bis (2-chloroethyl) ether	115	185	<0.078		mg/kg	0.078	0.234	09/30/2004
Bis (2-chloroethoxy) methane	115	185	<0.074		mg/kg	0.074	0.222	09/30/2004
Bis (2-ethylhexyl) phthalate	115	185	<0.032		mg/kg	0.032	0.096	09/30/2004
Bis (2chloroisopropyl) ether	115	185	<0.086		mg/kg	0.086	0.258	09/30/2004
4-Bromophenyl phenyl ether	115	185	<0.048		mg/kg	0.048	0.144	09/30/2004
Carbazole	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
4-Chloroaniline	115	185	<0.104		mg/kg	0.104	0.312	09/30/2004
2-Chloronaphthalene	115	185	<0.070		mg/kg	0.070	0.21	09/30/2004
4-Chlorophenylphenyl ether	115	185	<0.055		mg/kg	0.055	0.165	09/30/2004
Chrysene	115	185	<0.030		mg/kg	0.030	0.090	09/30/2004
Dibenzo (a, h) anthracene	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
Dibenzofuran	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
Di-n-butylphthalate	115	185	<0.043		mg/kg	0.043	0.129	09/30/2004
1,2-Dichlorobenzene	115	185	<0.103		mg/kg	0.103	0.309	09/30/2004
1,3-Dichlorobenzene	115	185	<0.092		mg/kg	0.092	0.276	09/30/2004
1,4-Dichlorobenzene	115	185	<0.085		mg/kg	0.085	0.255	09/30/2004
3,3-Dichlorobenzidine	115	185	<0.107		mg/kg	0.107	0.321	09/30/2004
Diethyl phthalate	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
2,4-Dinitrotoluene	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
2,6-Dinitrotoluene	115	185	<0.066		mg/kg	0.066	0.198	09/30/2004
Di-n-octylphthalate	115	185	<0.060		mg/kg	0.060	0.18	09/30/2004
Fluorene	115	185	<0.053		mg/kg	0.053	0.159	09/30/2004
Hexachlorobenzene	115	185	<0.029		mg/kg	0.029	0.087	09/30/2004
Hexachlorocyclopentadiene	115	185	<0.058		mg/kg	0.058	0.174	09/30/2004
Hexachloro-1,3-butadiene	115	185	<0.067		mg/kg	0.067	0.201	09/30/2004
Hexachloroethane	115	185	<0.082		mg/kg	0.082	0.246	09/30/2004
Indeno (1,2,3-cd) pyrene	115	185	<0.031		mg/kg	0.031	0.093	09/30/2004

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Isophorone	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
2-Methylnaphthalene	115	185	<0.064		mg/kg	0.064	0.192	09/30/2004
Naphthalene	115	185	<0.073		mg/kg	0.073	0.219	09/30/2004
2-Nitroaniline	115	185	<0.070		mg/kg	0.070	0.21	09/30/2004
3-Nitroaniline	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
4-Nitroaniline	115	185	<0.069		mg/kg	0.069	0.207	09/30/2004
Nitrobenzene	115	185	<0.076		mg/kg	0.076	0.228	09/30/2004
N-Nitrosodimethylamine	115	185	<0.111		mg/kg	0.111	0.333	09/30/2004
N-Nitrosodiphenylamine	115	185	<0.034		mg/kg	0.034	0.102	09/30/2004
N-Nitrosodi-n-propylamine	115	185	<0.083		mg/kg	0.083	0.249	09/30/2004
Phenanthrene	115	185	<0.038		mg/kg	0.038	0.114	09/30/2004
Pyrene	115	185	<0.050		mg/kg	0.050	0.15	09/30/2004
Pyridine	115	185	<0.112		mg/kg	0.112	0.336	09/30/2004
1,2,4-Trichlorobenzene	115	185	<0.073		mg/kg	0.073	0.219	09/30/2004
Nitrobenzene-d5 (surr)	115	185	86.7		%			09/30/2004
2-Fluorobiphenyl (surr)	115	185	83.9		%			09/30/2004
Terphenyl-d14 (surr)	115	185	108.0		%			09/30/2004
Benzoic Acid	115	185	<0.33		mg/kg	0.33	0.99	09/30/2004
4-Chloro-3-methylphenol	115	185	<0.072		mg/kg	0.072	0.216	09/30/2004
2-Chlorophenol	115	185	<0.086		mg/kg	0.086	0.258	09/30/2004
2-Methylphenol	115	185	<0.078		mg/kg	0.078	0.234	09/30/2004
4-Methylphenol	115	185	<0.080		mg/kg	0.080	0.24	09/30/2004
Cresols, Total	115	185	<0.158		mg/kg	0.158	0.474	09/30/2004
2,4-Dichlorophenol	115	185	<0.074		mg/kg	0.074	0.222	09/30/2004
2,4-Dimethylphenol	115	185	<0.063		mg/kg	0.063	0.189	09/30/2004
2,4-Dinitrophenol	115	185	<0.028		mg/kg	0.028	0.084	09/30/2004
2-Methyl-4,6-dinitrophenol	115	185	<0.105		mg/kg	0.105	0.315	09/30/2004
2-Nitrophenol	115	185	<0.112		mg/kg	0.112	0.336	09/30/2004
4-Nitrophenol	115	185	<0.066		mg/kg	0.066	0.198	09/30/2004
Pentachlorophenol	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
Phenol	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
2,4,5-Trichlorophenol	115	185	<0.069		mg/kg	0.069	0.207	09/30/2004
2,4,6-Trichlorophenol	115	185	<0.054		mg/kg	0.054	0.162	09/30/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Phenol-d6 (surr)	115	185	82.9		%			09/30/2004
2-Fluorophenol (surr)	115	185	81.8		%			09/30/2004
Tribromophenol (surr)	115	185	87.4		%			09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	448	850	<2.9		ug/L	2.9	8.7	10/06/2004
Acenaphthylene	448	850	<2.52		ug/L	2.52	7.56	10/06/2004
Anthracene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
Benzidine	448	850	<2.15		ug/L	2.15	6.45	10/06/2004
Benzo(a)anthracene	448	850	<2.72		ug/L	2.72	8.16	10/06/2004
Benzo(b)fluoranthene	448	850	<2.57		ug/L	2.57	7.71	10/06/2004
Benzo(k)fluoranthene	448	850	<2.6		ug/L	2.6	7.8	10/06/2004
Benzo(a)pyrene	448	850	<2.47		ug/L	2.47	7.41	10/06/2004
Benzo(ghi)perylene	448	850	<2.78		ug/L	2.78	8.34	10/06/2004
Benzyl Alcohol	448	850	<2.5		ug/L	2.5	7.5	10/06/2004
Benzyl butyl phthalate	448	850	<2.73		ug/L	2.73	8.19	10/06/2004
Bis(2-chloroethyl)ether	448	850	<2.17		ug/L	2.17	6.51	10/06/2004
Bis(2-chloroethoxy)methane	448	850	<2.33		ug/L	2.33	6.99	10/06/2004
Bis(2-ethylhexyl)phthalate	448	850	<3.05		ug/L	3.05	9.15	10/06/2004
Bis(2chloroisopropyl)ether	448	850	<2.19		ug/L	2.19	6.57	10/06/2004
4-Bromophenyl phenyl ether	448	850	<3.27		ug/L	3.27	9.81	10/06/2004
4-Chloroaniline	448	850	<1.69		ug/L	1.69	5.07	10/06/2004
2-Chloronaphthalene	448	850	<2.32		ug/L	2.32	6.96	10/06/2004
4-Chlorophenylphenyl ether	448	850	<2.58		ug/L	2.58	7.74	10/06/2004
Chrysene	448	850	<2.67		ug/L	2.67	8.01	10/06/2004
Dibenzo(a,h)anthracene	448	850	<2.73		ug/L	2.73	8.19	10/06/2004
Dibenzofuran	448	850	<1.97		ug/L	1.97	5.91	10/06/2004
Di-n-butylphthalate	448	850	<2.49		ug/L	2.49	7.47	10/06/2004
1,2-Dichlorobenzene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
1,3-Dichlorobenzene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
1,4-Dichlorobenzene	448	850	<2.1		ug/L	2.1	6.3	10/06/2004
3,3-Dichlorobenzidine	448	850	<1.55		ug/L	1.55	4.65	10/06/2004
Diethyl phthalate	448	850	<2.49		ug/L	2.49	7.47	10/06/2004
1,2-Diphenylhydrazine	448	850	<2.36		ug/L	2.36	7.08	10/06/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dimethyl phthalate	448	850	<2.58		ug/L	2.58	7.74	10/06/2004
2,4-Dinitrotoluene	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
2,6-Dinitrotoluene	448	850	<1.55		ug/L	1.55	4.65	10/06/2004
Di-n-octylphthalate	448	850	<2.82		ug/L	2.82	8.46	10/06/2004
Fluoranthene	448	850	<2.08		ug/L	2.08	6.24	10/06/2004
Fluorene	448	850	<2.13		ug/L	2.13	6.39	10/06/2004
Hexachlorobenzene	448	850	<2.15		ug/L	2.15	6.45	10/06/2004
Hexachloro-1,3-butadiene	448	850	<2.41		ug/L	2.41	7.23	10/06/2004
Hexachlorocyclopentadiene	448	850	<1.78		ug/L	1.78	5.34	10/06/2004
Hexachloroethane	448	850	<1.94		ug/L	1.94	5.82	10/06/2004
Indeno(1,2,3-cd)pyrene	448	850	<2.6		ug/L	2.6	7.8	10/06/2004
Isophorone	448	850	<2.37		ug/L	2.37	7.11	10/06/2004
2-Methylnaphthalene	448	850	<2.23		ug/L	2.23	6.69	10/06/2004
Naphthalene	448	850	<2.68		ug/L	2.68	8.04	10/06/2004
2-Nitroaniline	448	850	<2.25		ug/L	2.25	6.75	10/06/2004
3-Nitroaniline	448	850	<1.84		ug/L	1.84	5.52	10/06/2004
4-Nitroaniline	448	850	<1.36		ug/L	1.36	4.08	10/06/2004
Nitrobenzene	448	850	<2.04		ug/L	2.04	6.12	10/06/2004
N-Nitrosodimethylamine	448	850	<2.01		ug/L	2.01	6.03	10/06/2004
N-Nitrosodiphenylamine	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
N-Nitrosodi-n-propylamine	448	850	<2.44		ug/L	2.44	7.32	10/06/2004
N-Nitrosodi-n-butylamine	448	850	<2.76		ug/L	2.76	8.28	10/06/2004
N-Nitrosodiethylamine	448	850	<1.71		ug/L	1.71	5.13	10/06/2004
Phenanthrene	448	850	<2.56		ug/L	2.56	7.68	10/06/2004
N-Nitrosopyrrolidine	448	850	<2.55		ug/L	2.55	7.65	10/06/2004
Pentachlorobenzene	448	850	<1.51		ug/L	1.51	4.53	10/06/2004
Pyrene	448	850	<2.8		ug/L	2.8	8.4	10/06/2004
Pyridine	448	850	<1.36		ug/L	1.36	4.08	10/06/2004
1,2,4,5-Tetrachlorobenzene	448	850	<2.46		ug/L	2.46	7.38	10/06/2004
1,2,4-Trichlorobenzene	448	850	<2.33		ug/L	2.33	6.99	10/06/2004
Nitrobenzene-d5 (surr)	448	850	67.0		%	100	100	10/06/2004
2-Fluorobiphenyl (surr)	448	850	67.0		%	100	100	10/06/2004
Terphenyl-d14 (surr)	448	850	91.0		%	100	100	10/06/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Benzoic Acid	448	850	<10.0		ug/L	10.0	30.0	10/06/2004
4-Chloro-3-methylphenol	448	850	<2.7		ug/L	2.7	8.1	10/06/2004
2-chlorophenol	448	850	<2.48		ug/L	2.48	7.44	10/06/2004
Cresols, Total	448	850	<4.42		ug/L	4.42	13.3	10/06/2004
2,4-Dichlorophenol	448	850	<2.66		ug/L	2.66	7.98	10/06/2004
2,4-Dimethylphenol	448	850	<1.49		ug/L	1.49	4.47	10/06/2004
2,4-Dinitrophenol	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
2-Methyl-4,6-dinitrophenol	448	850	<2.98		ug/L	2.98	8.94	10/06/2004
2-Nitrophenol	448	850	<2.76		ug/L	2.76	8.28	10/06/2004
4-Nitrophenol	448	850	<1.8		ug/L	1.8	5.4	10/06/2004
2,5-Dinitrophenol	448	850	<4.21		ug/L	4.21	12.6	10/06/2004
Pentachlorophenol	448	850	<2.78		ug/L	2.78	8.34	10/06/2004
Phenol	448	850	<1.72		ug/L	1.72	5.16	10/06/2004
2,4,5-Trichlorophenol	448	850	<3.22		ug/L	3.22	9.66	10/06/2004
2,4,6-Trichlorophenol	448	850	<3.66		ug/L	3.66	11.0	10/06/2004
Phenol-d6 (surr)	448	850	29.0		%	100	100	10/06/2004
2-Fluorophenol (surr)	448	850	45.0		%	100	100	10/06/2004
Tribromophenol (surr)	448	850	107.0		%	100	100	10/06/2004
PCB's Non-Aqueous								
PCB-1016	839	1909	<0.25		mg/kg	0.15	0.25	10/13/2004
PCB-1221	839	1909	<0.25		mg/kg	0.19	0.25	10/13/2004
PCB-1232	839	1909	<0.25		mg/kg	0.029	0.25	10/13/2004
PCB-1242	839	1909	<0.25		mg/kg	0.049	0.25	10/13/2004
PCB-1248	839	1909	<0.25		mg/kg	0.019	0.25	10/13/2004
PCB-1254	839	1909	<0.25		mg/kg	0.025	0.25	10/13/2004
PCB-1260	839	1909	<0.25		mg/kg	0.14	0.25	10/13/2004
PCB-1268	839	1909	<0.25		mg/kg	0.063	0.25	10/13/2004
Decachlorobiphenyl (Surr.)	839	1909	0	**	%	1	1	10/13/2004
Tetrachlorometaxylene (Surr.)	839	1909	82		%	1	1	10/13/2004
PCBs Wisconsin Aqueous								
PCB 1016	237	650	<0.10		ug/L	0.10	0.30	10/06/2004
PCB-1242	237	650	<0.085		ug/L	0.085	0.26	10/06/2004
PCB-1221	237	650	<0.49		ug/L	0.49	1.5	10/06/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCB-1232	237	650	<0.027		ug/L	0.027	0.081	10/06/2004
PCB-1248	237	650	<0.065		ug/L	0.065	0.20	10/06/2004
PCB-1254	237	650	<0.098		ug/L	0.098	0.29	10/06/2004
PCB-1260	237	650	<0.091		ug/L	0.091	0.27	10/06/2004
PCB-1268	237	650	<1.0		ug/L	1.0	1.0	10/06/2004
Decachlorobiphenyl (Surr.)	237	650	24		%			10/06/2004
Tetrachlorometaxylene (Surr.)	237	650	66		%			10/06/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1402	0.198	mg/L	0.197	100		10/04/2004
Cyanide, mdl		878	0.1980	mg/kg	0.190	96		10/08/2004
Arsenic, (GFAA) LL mdl	3029	75	0.040	mg/L	0.0374	94		10/01/2004
Cadmium, (GFAA) mdl	3029	59	0.0200	mg/L	0.0188	94		10/01/2004
Lead, (GFAA) mdl	3029	98	0.0400	mg/L	0.0386	96		10/04/2004
Mercury, mdl		2430	1.64	ug/L	1.54	94	B	10/06/2004
Mercury, diss mdl		800	1.64	ug/L	1.64	100	B	10/06/2004
Selenium, (GFAA) mdl	3029	65	0.0800	mg/L	0.0727	91		10/04/2004
Arsenic, (GFAA) mdl	915	635	0.0400	mg/L	0.0400	100		10/01/2004
Mercury, mdl		2066	0.159	mg/kg	0.139	87	B	10/12/2004
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061	91		10/04/2004
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061	91		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149	92		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160	92		10/04/2004
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81	90		10/04/2004
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66	92		10/04/2004
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449	94		10/04/2004
Barium, (ICP) mdl	4078	6421	1.00	mg/L	0.9110	91		10/04/2004
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811	98		10/04/2004
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811	98		10/04/2004
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442	94		10/04/2004
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442	94		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	20.0	ug/L	22.4	112		10/02/2004
Chlorobenzene		5796	20.0	ug/L	19.7	98		10/02/2004
1,1-Dichloroethene		5796	20.0	ug/L	24.6	123		10/02/2004
Ethylbenzene		5796	20.0	ug/L	19.3	96		10/02/2004
MTBE		5796	20.0	ug/L	22.6	113		10/02/2004
1,2,4-Trimethylbenzene		5796	20.0	ug/L	18.8	94		10/02/2004
Toluene		5796	20.0	ug/L	20.4	102		10/02/2004
1,3,5-Trimethylbenzene		5796	20.0	ug/L	19.1	96	B	10/02/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Trichloroethylene		5796	20.0	ug/L	21.0	105		10/02/2004
Xylenes, Total		5796	60.0	ug/L	58.4	97		10/02/2004
Dibromofluoromethane (surr)		5796	100	%	103.0	103		10/02/2004
Toluene-d8 (surr)		5796	100	%	96.0	96		10/02/2004
4-Bromofluorobenzene (surr)		5796	100	%	98.0	98		10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1059	27.49	ug/kg	26.4	96		10/09/2004
Bromoform		1059	27.49	ug/kg	26.3	96		10/09/2004
Chlorobenzene		1059	27.49	ug/kg	25.4	92		10/09/2004
1,1-Dichloroethane		1059	27.49	ug/kg	25.6	93		10/09/2004
1,1-Dichloroethene		1059	27.49	ug/kg	25.0	91		10/09/2004
Ethylbenzene		1059	27.49	ug/kg	25.1	91		10/09/2004
MTBE		1059	27.49	ug/kg	27.7	101		10/09/2004
1,1,2,2-Tetrachloroethane		1059	27.49	ug/kg	27.1	99		10/09/2004
Toluene		1059	27.49	ug/kg	25.4	92		10/09/2004
Trichloroethylene		1059	27.49	ug/kg	24.0	87		10/09/2004
1,2,4-Trimethylbenzene		1059	27.49	ug/kg	24.4	89		10/09/2004
1,3,5-Trimethylbenzene		1059	27.49	ug/kg	24.7	90		10/09/2004
Vinyl Chloride		1059	27.49	ug/kg	23.7	86		10/09/2004
Xylenes, Total		1059	82.46	ug/kg	74.9	91		10/09/2004
4-Bromofluorobenzene (surr)		1059	100	%	102	102		10/09/2004
Dibromofluoromethane (surr)		1059	100	%	99	99		10/09/2004
Toluene-d8 (surr)		1059	100	%	100	100		10/09/2004
BNA Soil 8270 MDL								
Acenaphthene	115	185	3.33	mg/kg	2.96	89		09/30/2004
1,4-Dichlorobenzene	115	185	3.33	mg/kg	2.35	71		09/30/2004
2,4-Dinitrotoluene	115	185	3.33	mg/kg	3.64	109		09/30/2004
N-Nitrosodi-n-propylamine	115	185	3.33	mg/kg	2.59	78		09/30/2004
Pyrene	115	185	3.33	mg/kg	3.34	100		09/30/2004
1,2,4-Trichlorobenzene	115	185	3.33	mg/kg	2.39	72		09/30/2004
Nitrobenzene-d5 (surr)	115	185	100	%	73.7	74		09/30/2004
2-Fluorobiphenyl (surr)	115	185	100	%	81.4	81		09/30/2004
Terphenyl-d14 (surr)	115	185	100	%	108.0	108		09/30/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
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Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
4-Chloro-3-methylphenol	115	185	3.33	mg/kg	2.98	90		09/30/2004
2-chlorophenol	115	185	3.33	mg/kg	2.24	67		09/30/2004
4-Nitrophenol	115	185	3.33	mg/kg	3.46	104		09/30/2004
Pentachlorophenol	115	185	3.33	mg/kg	3.11	93		09/30/2004
Phenol	115	185	3.33	mg/kg	2.24	67		09/30/2004
Phenol-d6 (surr)	115	185	100	%	68.2	68		09/30/2004
2-Fluorophenol (surr)	115	185	100	%	66.2	66		09/30/2004
Tribromophenol (surr)	115	185	100	%	107.0	107		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	448	850	100.0	ug/L	89.1	89		10/06/2004
1,4-Dichlorobenzene	448	850	100.0	ug/L	68.6	69		10/06/2004
2,4-Dinitrotoluene	448	850	100.0	ug/L	111	111		10/06/2004
N-Nitrosodi-n-propylamine	448	850	100.0	ug/L	84.6	85		10/06/2004
Pyrene	448	850	100.0	ug/L	92.0	92		10/06/2004
1,2,4-Trichlorobenzene	448	850	100.0	ug/L	69.8	70		10/06/2004
Nitrobenzene-d5 (surr)	448	850	100	%	79.0	79		10/06/2004
2-Fluorobiphenyl (surr)	448	850	100	%	82.0	82		10/06/2004
Terphenyl-d14 (surr)	448	850	100	%	92.0	92		10/06/2004
4-Chloro-3-methylphenol	448	850	100.0	ug/L	86.0	86		10/06/2004
2-chlorophenol	448	850	100.0	ug/L	69.5	70		10/06/2004
4-Nitrophenol	448	850	100.0	ug/L	47.2	47		10/06/2004
Pentachlorophenol	448	850	100.0	ug/L	105	105		10/06/2004
Phenol	448	850	100.0	ug/L	31.7	32		10/06/2004
Phenol-d6 (surr)	448	850	100	%	31.0	31		10/06/2004
2-Fluorophenol (surr)	448	850	100	%	47.0	47		10/06/2004
Tribromophenol (surr)	448	850	100	%	107.0	107		10/06/2004
PCB's Non-Aqueous								
PCB-1248	839	1909	0.17	mg/kg	0.11	65		10/13/2004
Decachlorobiphenyl (Surr.)	839	1909	0.0	%	0	0	**	10/13/2004
Tetrachlorometaxylene (Surr.)	839	1909	100	%	83	83		10/13/2004
PCBs Wisconsin Aqueous								
PCB-1248	237	650	5.0	ug/L	2.4	48		10/06/2004
Decachlorobiphenyl (Surr.)	237	650	100	%	21	21		10/06/2004

** - Surrogate not added to the spiking solution.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Tetrachlorometaxylene (Surr.)	237	650	100	%	54	54		10/06/2004

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1702	1.0		COMPLETE				10/06/2004
Barium, Diss (ICP) mdl	6426		0.9615	mg/L	0.024	0.9196	93		10/06/2004
Chromium, Diss (ICP) mdl	6442		0.9615	mg/L	<0.0080	0.9438	98	IE	10/06/2004
Silver, Diss (ICP) mdl	6440		0.9804	mg/L	<0.0038	0.7359	75		10/06/2004
Arsenic, Diss (GFAA) mdl	52		0.0227	mg/L	<0.00036	0.0251	111		10/01/2004
Cadmium, Diss (GFAA) mdl	40		0.00119	mg/L	<0.00014	0.00123	103		10/01/2004
Lead, Diss (GFAA) mdl	46		0.0227	mg/L	<0.00050	0.0227	100		10/04/2004
Selenium, Diss (GFAA) mdl	40		0.0238	mg/L	<0.0030	0.01559	66	N,S	10/04/2004

IE - Elevated Reporting Limit due to interelement interference.

N - Spike recovery for this analyte is out of control

S - Reported value determined by the method of standard additions

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job Number: 04.13543

Analyte	Prep	Run	Duplicate		Units	RPD	Flag	Date	RPD
	Batch	Batch	Sample	Sample					Max.
	No.	No.	Result	Result			Analized	Limit	
Solids, Total		2772	2.97	2.96	%	0.3	09/29/2004	20	
Solids, Total		2772	92.71	92.26	%	0.5	09/29/2004	20	
Dissolved ICP Metals		1702	COMPLETE	COMPLETE			10/06/2004	20	
Barium, Diss (ICP) mdl		6426	0.062	0.063	mg/L	1.6	10/06/2004	20	
Chromium, Diss (ICP) mdl		6442	<0.010	<0.010	mg/L		IE 10/06/2004	20	
Silver, Diss (ICP) mdl		6440	<0.0038	<0.0038	mg/L		10/06/2004	20	
Arsenic, Diss (GFAA) mdl		52	0.00750	0.00804	mg/L	6.9	10/01/2004	20	
Cadmium, Diss (GFAA) mdl		40	<0.00014	<0.00014	mg/L		10/01/2004	20	
Lead, Diss (GFAA) mdl		46	<0.00050	<0.00050	mg/L		10/04/2004	20	
Selenium, Diss (GFAA) mdl		40	<0.0015	<0.0015	mg/L		10/04/2004	20	

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD		Percent	MS/MSD	
	Batch	Batch	Spike					Result	Spike			Recovery
Cyanide, Total mdl		1402	0.205	<0.0022	0.198	mg/L	103.5	0.211	0.198	mg/L	106.6	2.9
Cyanide, mdl		878	21.53	1.66	23.09	mg/kg dw	86.0	22.12	23.31	mg/kg dw	87.7	2.7
Arsenic, (GFAA) LL mdl		75	0.7090	0.6210	0.0400	mg/L	220.0	0.6950	0.0400	mg/L	185.0	2.0
Cadmium, (GFAA) mdl		59	0.0176	<0.0001	0.0200	mg/L	88.0	0.0185	0.0200	mg/L	92.5	5.0
Lead, (GFAA) mdl		98	0.0394	<0.0005	0.0400	mg/L	98.5	0.0388	0.0400	mg/L	97.0	1.5
Mercury, mdl		2430	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
Mercury, diss mdl		800	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
Selenium, (GFAA) mdl		65	0.0665	0.0022	0.0800	mg/L	80.4	0.0652	0.0800	mg/L	78.8	2.0
Arsenic, (GFAA) mdl	915	635	6.87	3.03	2.56	mg/kg dw	150.0	5.98	2.50	mg/kg dw	117.9	13.9
Mercury, mdl		2066	0.183	0.047	0.164	mg/kg dw	82.8	0.209	0.204	mg/kg dw	79.2	13.1
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.3
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.3
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Silver, (ICP) mdl	1510	645	324	<4.1	350	mg/kg dw	92.4			mg/kg dw		
Barium, (ICP) mdl	4078	6421	0.9367	0.024	1.000	mg/L	91.3	0.9407	1.000	mg/L	91.7	0.4
Chromium, (ICP) mdl	4078	6437	0.9862	<0.020	1.000	mg/L	98.6	0.9901	1.000	mg/L	99.0	0.4
Chromium, (ICP) mdl	4078	6437	0.9862	0.0089	1.000	mg/L	97.7	0.9901	1.000	mg/L	98.1	0.4
Silver, (ICP) mdl	4078	6435	0.9560	<0.020	0.9804	mg/L	97.5			mg/L		
Silver, (ICP) mdl	4078	6435	0.9560	<0.0038	0.9804	mg/L	97.5			mg/L		

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Result		
VOLATILE COMPOUNDS												
Benzene		5796	24	<0.25	20	ug/L	120.0	23.2	20.0	ug/L	116.0	3.4
Chlorobenzene		5796	22	<0.25	20	ug/L	110.0	20.3	20.0	ug/L	101.5	8.0
1,1-Dichloroethene		5796	24	<0.25	20	ug/L	120.0	23.0	20.0	ug/L	115.0	4.3
Ethylbenzene		5796	20.4	<0.43	20.0	ug/L	102.0	18.1	20.0	ug/L	90.5	11.9
1,2,4-Trimethylbenzene		5796	16.1	<0.25	20.0	ug/L	80.5	13.9	20.0	ug/L	69.5	14.7
Toluene		5796	21	<0.25	20	ug/L	105.0	20.1	20.0	ug/L	100.5	4.4
1,3,5-Trimethylbenzene		5796	15.0	<0.14	20.0	ug/L	75.0	12.8	20.0	ug/L	64.0	15.8
Trichloroethylene		5796	22.6	<0.43	20.0	ug/L	113.0	21.3	20.0	ug/L	106.5	5.9
VOA 8260 NON-AQUEOUS LRL												
Benzene		1059	75.0	<0.57	74.99	ug/kg dw	100.1	58.8	60.70	ug/kg dw	97.0	24.2
Bromoform		1059	74.0	<3.48	74.99	ug/kg dw	98.7	58.1	60.70	ug/kg dw	95.8	24.0
Chlorobenzene		1059	72.1	<0.441	74.99	ug/kg dw	96.2	54.5	60.70	ug/kg dw	89.8	27.9
1,1-Dichloroethane		1059	72.0	<0.83	74.99	ug/kg dw	96.1	59.0	60.70	ug/kg dw	97.1	20.0
1,1-Dichloroethene		1059	70.8	<0.348	74.99	ug/kg dw	94.4	57.5	60.70	ug/kg dw	94.7	20.7
Ethylbenzene		1059	68.7	<0.57	74.99	ug/kg dw	91.6	53.1	60.70	ug/kg dw	87.6	25.6
MTBE		1059	81.6	<4.93	74.99	ug/kg dw	108.8	63.8	60.70	ug/kg dw	105.2	24.4
1,1,2,2-Tetrachloroethane		1059	76.2	<1.1	74.99	ug/kg dw	101.6	62.6	60.70	ug/kg dw	103.1	19.6
Toluene		1059	74.9	<0.73	74.99	ug/kg dw	99.9	54.5	60.70	ug/kg dw	89.8	31.6
Trichloroethylene		1059	68.4	<0.99	74.99	ug/kg dw	91.2	53.5	60.70	ug/kg dw	88.1	24.5
1,2,4-Trimethylbenzene		1059	66.7	<5.2	74.99	ug/kg dw	89.0	47.6	60.70	ug/kg dw	78.5	33.4
1,3,5-Trimethylbenzene		1059	67.0	<5.2	74.99	ug/kg dw	89.4	49.8	60.70	ug/kg dw	82.1	29.5
Vinyl Chloride		1059	66.3	<0.78	74.99	ug/kg dw	88.4	51.9	60.70	ug/kg dw	85.5	24.4
Xylenes, Total		1059	214	<5.2	225.0	ug/kg dw	95.0	160	182.0	ug/kg dw	87.8	28.9
BNA Soil 8270 MDL												
Acenaphthene	115	185	3.67	<0.076	4.00	mg/kg dw	91.9	3.71	4.01	mg/kg dw	92.5	1.0
1,4-Dichlorobenzene	115	185	3.13	<0.10	4.00	mg/kg dw	78.3	3.00	4.01	mg/kg dw	74.8	4.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
2,4-Dinitrotoluene	115	185	4.21	<0.057	4.00	mg/kg dw	105.4	4.25	4.01	mg/kg dw	106.0	0.9
N-Nitrosodi-n-propylamine	115	185	3.43	<0.10	4.00	mg/kg dw	85.8	3.31	4.01	mg/kg dw	82.6	3.6
Pyrene	115	185	4.02	<0.060	4.00	mg/kg dw	100.6	4.02	4.01	mg/kg dw	100.3	0.0
1,2,4-Trichlorobenzene	115	185	3.21	<0.088	4.00	mg/kg dw	80.4	3.07	4.01	mg/kg dw	76.6	4.6
4-Chloro-3-methylphenol	115	185	3.71	<0.087	4.00	mg/kg dw	92.8	3.60	4.01	mg/kg dw	89.8	3.0
2-chlorophenol	115	185	2.89	<0.10	4.00	mg/kg dw	72.3	2.71	4.01	mg/kg dw	67.6	6.5
4-Nitrophenol	115	185	1.41	<0.079	4.00	mg/kg dw	35.2	0.88	4.01	mg/kg dw	21.9	46.3
Pentachlorophenol	115	185	0.37	<0.093	4.00	mg/kg dw	9.3	0.14	4.01	mg/kg dw	3.6	88.4
Phenol	115	185	3.07	<0.093	4.00	mg/kg dw	76.8	2.82	4.01	mg/kg dw	70.3	8.6
BNA - 8270 AQUEOUS WI												
Acenaphthene	448	850	97.0	<2.9	102.0	ug/L	95.1	93.8	106.4	ug/L	88.2	3.4
1,4-Dichlorobenzene	448	850	63.4	<2.1	102.0	ug/L	62.2	71.5	106.4	ug/L	67.2	12.0
2,4-Dinitrotoluene	448	850	114	<2.59	102.0	ug/L	111.8	113	106.4	ug/L	106.2	0.9
N-Nitrosodi-n-propylamine	448	850	81.9	<2.44	102.0	ug/L	80.3	87.4	106.4	ug/L	82.1	6.5
Pyrene	448	850	98.7	<2.8	102.0	ug/L	96.8	96.2	106.4	ug/L	90.4	2.6
1,2,4-Trichlorobenzene	448	850	65.9	<2.33	102.0	ug/L	64.6	74.0	106.4	ug/L	69.5	1.7
4-Chloro-3-methylphenol	448	850	92.3	<2.7	102.0	ug/L	90.5	89.7	106.4	ug/L	84.3	2.1
2-chlorophenol	448	850	79.0	<2.48	102.0	ug/L	77.5	76.4	106.4	ug/L	71.8	3.3
4-Nitrophenol	448	850	53.6	<1.8	102.0	ug/L	52.5	55.6	106.4	ug/L	52.3	3.7
Pentachlorophenol	448	850	112	<2.78	102.0	ug/L	109.8	113	106.4	ug/L	106.2	0.9
Phenol	448	850	37.1	<1.72	102.0	ug/L	36.4	36.1	106.4	ug/L	33.9	2.7
PCB's Non-Aqueous												
PCB-1248	839	1909	.31	<0.6	0.22	mg/kg dw	141.2	0.31	0.20	mg/kg dw	150.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD	Percent	MS/MSD
	Batch	Batch	Spike					MSD		
	Number	Number	Result	Result	Amount	Recovery	Result	Amount	Recovery	RPD

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job No: 04.13543

Analyte	Prep Run		LCS Amount	Units	LCS Result	LCS Result	LCS % Rec	LCS % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Cyanide, Total mdl		1402	0.198	mg/L	0.197		99.5		90 - 110		20
Cyanide, mdl		878	0.1980	mg/kg	0.190		96.0		90 - 110		20
Arsenic, (GFAA) LL mdl	3029	75	0.040	mg/L	0.0374		93.5		85 - 120		20
Cadmium, (GFAA) mdl	3029	59	0.0200	mg/L	0.0188		94.0		80 - 120		20
Lead, (GFAA) mdl	3029	98	0.0400	mg/L	0.0386		96.5		90 - 115		20
Mercury, mdl		2430	1.64	ug/L	1.54		93.9		80 - 125		20
Mercury, diss mdl		800	1.64	ug/L	1.64		100.0		80 - 125		20
Selenium, (GFAA) mdl	3029	65	0.0800	mg/L	0.0727		90.9		85 - 115		20
Arsenic, (GFAA) mdl	915	635	0.0400	mg/L	0.0400		100.0		80 - 120		20
Mercury, mdl		2066	0.159	mg/kg	0.139		87.4		80 - 115		20
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061		90.6		90 - 110		20
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061		90.6		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149		91.5		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149		91.5		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160		91.6		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160		91.6		90 - 110		20
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81		90.5		85 - 110		20
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66		91.5		90 - 110		20
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449		94.5		80 - 120		20
Barium, (ICP) mdl	4078	6421	1.00	mg/L	0.9110		91.1		90 - 115		20
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811		98.1		90 - 110		20
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811		98.1		90 - 110		20
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442		94.4		90 - 115		20
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442		94.4		90 - 115		20
VOLATILE COMPOUNDS											
Benzene		5796	20.0	ug/L	22.4		112.0		81 - 124		27
Chlorobenzene		5796	20.0	ug/L	19.7		98.5		77 - 125		28
1,1-Dichloroethene		5796	20.0	ug/L	24.6		123.0		53 - 143		28
Ethylbenzene		5796	20.0	ug/L	19.3		96.5		65 - 140		24
MTBE		5796	20.0	ug/L	22.6		113.0		70 - 133		26
1,2,4-Trimethylbenzene		5796	20.0	ug/L	18.8		94.0		59 - 145		23
Toluene		5796	20.0	ug/L	20.4		102.0		73 - 127		21

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job No: 04.13543

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
1,3,5-Trimethylbenzene		5796	20.0	ug/L	19.1		95.5		63 - 141		24
Trichloroethylene		5796	20.0	ug/L	21.0		105.0		81 - 121		16
Xylenes, Total		5796	60.0	ug/L	58.4		97.3		75 - 130		20
Dibromofluoromethane (surr)		5796	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5796	100	%	96.0		96.0		76 - 120		50
4-Bromofluorobenzene (surr)		5796	100	%	98.0		98.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1059	27.49	ug/kg	26.4		96.0		68 - 158		20
Bromoform		1059	27.49	ug/kg	26.3		95.7		61 - 151		20
Chlorobenzene		1059	27.49	ug/kg	25.4		92.4		65 - 155		20
1,1-Dichloroethane		1059	27.49	ug/kg	25.6		93.1		64 - 154		20
1,1-Dichloroethene		1059	27.49	ug/kg	25.0		90.9		55 - 148		20
Ethylbenzene		1059	27.49	ug/kg	25.1		91.3		69 - 159		20
MTBE		1059	27.49	ug/kg	27.7		100.8		71 - 161		20
1,1,2,2-Tetrachloroethane		1059	27.49	ug/kg	27.1		98.6		63 - 153		20
Toluene		1059	27.49	ug/kg	25.4		92.4		68 - 158		20
Trichloroethylene		1059	27.49	ug/kg	24.0		87.3		61 - 151		20
1,4-Trimethylbenzene		1059	27.49	ug/kg	24.4		88.8		68 - 158		20
1,3,5-Trimethylbenzene		1059	27.49	ug/kg	24.7		89.9		66 - 156		20
Vinyl Chloride		1059	27.49	ug/kg	23.7		86.2		47 - 137		20
Xylenes, Total		1059	82.46	ug/kg	74.9		90.8		69 - 159		20
4-Bromofluorobenzene (surr)		1059	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1059	100	%	99		99.0		56 - 146		
Toluene-d8 (surr)		1059	100	%	100		100.0		52 - 142		
BNA Soil 8270 MDL											
Acenaphthene	115	185	3.33	mg/kg	2.96		88.9		69 - 108		35
1,4-Dichlorobenzene	115	185	3.33	mg/kg	2.35		70.6		49 - 96		35
2,4-Dinitrotoluene	115	185	3.33	mg/kg	3.64		109.3		68 - 129		35
N-Nitrosodi-n-propylamine	115	185	3.33	mg/kg	2.59		77.8		53 - 105		35
Pyrene	115	185	3.33	mg/kg	3.34		100.3		68 - 117		35
1,2,4-Trichlorobenzene	115	185	3.33	mg/kg	2.39		71.8		51 - 98		35
Nitrobenzene-d5 (surr)	115	185	100	%	73.7		73.7		56 - 113		

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job No: 04.13543

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
2-Fluorobiphenyl (surr)	115	185	100	%	81.4		81.4		67 - 107		
Terphenyl-d14 (surr)	115	185	100	%	108.0		108.0		66 - 115		
4-Chloro-3-methylphenol	115	185	3.33	mg/kg	2.98		89.5		67 - 115		35
2-chlorophenol	115	185	3.33	mg/kg	2.24		67.3		51 - 94		35
4-Nitrophenol	115	185	3.33	mg/kg	3.46		103.9		63 - 140		35
Pentachlorophenol	115	185	3.33	mg/kg	3.11		93.4		49 - 139		35
Phenol	115	185	3.33	mg/kg	2.24		67.3		50 - 98		35
Phenol-d6 (surr)	115	185	100	%	68.2		68.2		55 - 106		
2-Fluorophenol (surr)	115	185	100	%	66.2		66.2		52 - 96		
Tribromophenol (surr)	115	185	100	%	107.0		107.0		66 - 149		
BNA - 8270 AQUEOUS WI											
Acenaphthene	448	850	100.0	ug/L	89.1		89.1		42 - 127		20
1,4-Dichlorobenzene	448	850	100.0	ug/L	68.6		68.6		30 - 101		20
2,4-Dinitrotoluene	448	850	100.0	ug/L	111		111.0		51 - 141		20
N-Nitrosodi-n-propylamine	448	850	100.0	ug/L	84.6		84.6		39 - 119		20
Pyrene	448	850	100.0	ug/L	92.0		92.0		44 - 130		20
1,2,4-Trichlorobenzene	448	850	100.0	ug/L	69.8		69.8		35 - 105		20
Nitrobenzene-d5 (surr)	448	850	100	%	79.0		79.0		37 - 127		20
2-Fluorobiphenyl (surr)	448	850	100	%	82.0		82.0		40 - 114		20
Terphenyl-d14 (surr)	448	850	100	%	92.0		92.0		38 - 116		20
4-Chloro-3-methylphenol	448	850	100.0	ug/L	86.0		86.0		41 - 127		20
2-chlorophenol	448	850	100.0	ug/L	69.5		69.5		35 - 107		20
4-Nitrophenol	448	850	100.0	ug/L	47.2		47.2		15 - 66		20
Pentachlorophenol	448	850	100.0	ug/L	105		105.0		19 - 109		20
Phenol	448	850	100.0	ug/L	31.7		31.7		0 - 90		20
Phenol-d6 (surr)	448	850	100	%	31.0		31.0		28 - 109		20
2-Fluorophenol (surr)	448	850	100	%	47.0		47.0		30 - 140		20
Tribromophenol (surr)	448	850	100	%	107.0		107.0		44 - 134		20
PCB's Non-Aqueous											
PCB-1248	839	1909	0.17	mg/kg	0.11		64.7		40 - 122		20
Decachlorobiphenyl (Surr.)	839	1909	0.0	%	0		0		63 - 131		35
Tetrachlorometaxylene (Sur	839	1909	100	%	83		83.0		35 - 125		

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/25/2004

Job No: 04.13543

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD Max.	
	Batch Number	Batch Number								RPD	Limit
PCBs Wisconsin Aqueous											
PCB-1248	237	650	5.0	ug/L	2.4	3.0	48.0	60.0	34 - 111	22.2	20
Decachlorobiphenyl (Surr.)	237	650	100	%	21	20	21.0	20.0	37 - 134	4.9	
Tetrachlorometaxylene (Sur)	237	650	100	%	54	56	54.0	56.0	37 - 115	3.6	

TestAmerica Job Number: 04.13543

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Client Name: HOWARD R GREEN CO. Client #: _____
 Address: 8710 EARHART LANE SW
 City/State/Zip Code: CEAR RAPIDS IA 52409
 Project Manager: CINDY QUAST
 Telephone Number: (319) 891-4424 Fax: (319) 841-4012
 Sampler Name: (Print Name) JON RYK
 Sampler Signature: [Signature]
 Email Address: joyke@rgreen.com

Project Name: CAMBERLAIN
 Project #: 722930 J23
 Site/Location ID: WATERWOOD State: IA
 Report To: CINDY QUAST
 Invoice To: HRC
 Quote #: _____ PO#: _____

TAT <input type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers								Analyze For:	QC Deliverables <input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____		
						SL - Sludge GW - Groundwater WW - Wastewater Specify Other	DW - Drinking Water S - Soil/Solid Other	HNO ₃ 500ml filtered	HCl 40ml vial	NaOH 250ml	H ₂ SO ₄	Methanol	None 1L Amber-Glass	Other (Specify) 40 ml			1	2
IB-16		9/27/09	08:00	G		DW												
FB-1W		9/27/09	09:00	G	1	DW	1	3	1									
MW-BB		9/27/09	09:45	G		GW			1									
FB-TW OF-2		9/27/09	14:30	G		WW	1	3	1									
OF-2		9/27/09	15:00	G		S												Sediment *
SUMP-2		9/27/09	16:00	G		WW	1	3	1									Sediment *
SUMP-2		9/27/09	16:30	G		S												Sediment *
EW-1		9/27/09	10:30	G		S												Sediment *
FD-3		9/28/09	12:00	G		S												Sediment (7036)

Special Instructions: NO TAX ACCOUNT # 15404
NEED RESULTS TO COMPARE TO IOWA LRP
STATEWIDE STANDARDS

Relinquished By: [Signature] Date: 9/28/09 Time: 16:10
 Received By: [Signature] Date: 9/28/09 Time: 16:10

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:

Sample Receipt and Temperature Log Form

Client: Howard R Green Project: _____

City: _____

Date: 9-28-04 Receiver's Initials na Time (Delivered): 16:10

Temperature Record

Cooler ID# (If Applicable)

5 °C / On Ice

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| <input type="checkbox"/> US Postal | |

Exceptions Noted

- Sample(s) not received in a cooler.
- Samples(s) received same day of sampling.
- Temperature not taken:
- _____

Log-In by:

JP MF EM
OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job: 04.11999

Project Number: 722930J23
Project: Chamberlain

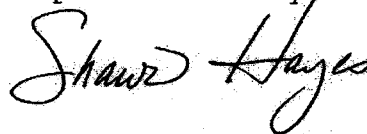
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
821109	FB-1S	08/31/2004	09/01/2004
821110	TB-2	08/31/2004	09/01/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	09/02/2004	tlz		1393	EPA 335.4
Dissolved ICP Metals	COMPLETE					09/10/2004	llw		1679	
Barium, Diss (ICP) mdl	<0.0013		mg/L	0.0013	0.0047	09/10/2004	llw		6370	SW 6010B
Chromium, Diss (ICP) mdl	<0.0026		mg/L	0.0026	0.0092	09/10/2004	llw		6386	SW 6010B
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	09/10/2004	llw		6384	SW 6010B
Arsenic, Diss (GFAA) mdl	<0.00036		mg/L	0.00036	0.0013	09/09/2004	mrn		49	SW 7060A
Cadmium, Diss (GFAA) mdl	0.00014		mg/L	0.00014	0.00050	09/08/2004	mrn		38	SW 7131A
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	09/07/2004	mrn		42	SW 7421
Mercury, diss mdl	<0.027		ug/L	0.027	0.095	09/03/2004	heh		798	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	09/09/2004	heh		37	SW 7740
Prep BNA (MDL)	complete					09/07/2004	sch	441		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/04/2004	dmd		5624	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/04/2004	dmd		5624	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
n-Butylbenzene	<0.13		ug/L	0.13	0.39	09/04/2004	dmd		5624	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/04/2004	dmd		5624	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd		5624	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
Chloroform	2.03		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/04/2004	dmd	5624	5624	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/04/2004	dmd	5624	5624	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/04/2004	dmd	5624	5624	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/04/2004	dmd	5624	5624	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/04/2004	dmd	5624	5624	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/04/2004	dmd	5624	5624	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/04/2004	dmd	5624	5624	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	5624	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd	5624	5624	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd	5624	5624	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/04/2004	dmd	5624	5624	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd	5624	5624	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/04/2004	dmd	5624	5624	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd	5624	5624	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd	5624	5624	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/04/2004	dmd		5624	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/04/2004	dmd		5624	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/04/2004	dmd		5624	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/04/2004	dmd		5624	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/04/2004	dmd		5624	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/04/2004	dmd		5624	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/04/2004	dmd		5624	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd		5624	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/04/2004	dmd		5624	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/04/2004	dmd		5624	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Dibromofluoromethane (surr)	102		%			09/04/2004	dmd		5624	SW 8260B
Toluene-d8 (surr)	97		%			09/04/2004	dmd		5624	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/04/2004	dmd		5624	SW 8260B
BNA - 8270 AQUEOUS WI										

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
Acenaphthene	<2.9		ug/L	2.9	8.7	09/10/2004	ake	441	839	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	09/10/2004	ake	441	839	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	09/10/2004	ake	441	839	SW 8270C
Benizidine	<2.15		ug/L	2.15	6.45	09/10/2004	ake	441	839	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	09/10/2004	ake	441	839	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	09/10/2004	ake	441	839	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	09/10/2004	ake	441	839	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	09/10/2004	ake	441	839	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	09/10/2004	ake	441	839	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	09/10/2004	ake	441	839	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	09/10/2004	ake	441	839	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	09/10/2004	ake	441	839	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	09/10/2004	ake	441	839	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05		ug/L	3.05	9.15	09/10/2004	ake	441	839	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	09/10/2004	ake	441	839	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	09/10/2004	ake	441	839	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	09/10/2004	ake	441	839	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	09/10/2004	ake	441	839	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	09/10/2004	ake	441	839	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	09/10/2004	ake	441	839	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	09/10/2004	ake	441	839	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	09/10/2004	ake	441	839	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	09/10/2004	ake	441	839	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/10/2004	ake	441	839	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/10/2004	ake	441	839	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	09/10/2004	ake	441	839	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	09/10/2004	ake	441	839	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	09/10/2004	ake	441	839	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	09/10/2004	ake	441	839	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	09/10/2004	ake	441	839	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	09/10/2004	ake	441	839	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	09/10/2004	ake	441	839	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	09/10/2004	ake	441	839	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	09/10/2004	ake	441	839	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	09/10/2004	ake	441	839	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	09/10/2004	ake	441	839	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	09/10/2004	ake	441	839	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	09/10/2004	ake	441	839	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	09/10/2004	ake	441	839	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	09/10/2004	ake	441	839	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	09/10/2004	ake	441	839	SW 8270C
2-Methylnapthalene	<2.23		ug/L	2.23	6.69	09/10/2004	ake	441	839	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	09/10/2004	ake	441	839	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	09/10/2004	ake	441	839	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	09/10/2004	ake	441	839	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	09/10/2004	ake	441	839	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	09/10/2004	ake	441	839	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	09/10/2004	ake	441	839	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	09/10/2004	ake	441	839	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	09/10/2004	ake	441	839	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	09/10/2004	ake	441	839	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	09/10/2004	ake	441	839	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
Phenanthrene	<2.56		ug/L	2.56	7.68	09/10/2004	ake	441	839	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	09/10/2004	ake	441	839	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	09/10/2004	ake	441	839	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	09/10/2004	ake	441	839	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	09/10/2004	ake	441	839	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	09/10/2004	ake	441	839	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	09/10/2004	ake	441	839	SW 8270C
Nitrobenzene-d5 (surr)	70		%	100	100	09/10/2004	ake	441	839	SW 8270C
2-Fluorobiphenyl (surr)	70		%	100	100	09/10/2004	ake	441	839	SW 8270C
Terphenyl-d14 (surr)	103		%	100	100	09/10/2004	ake	441	839	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	09/10/2004	ake	441	839	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	09/10/2004	ake	441	839	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	09/10/2004	ake	441	839	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	09/10/2004	ake	441	839	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	09/10/2004	ake	441	839	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	09/10/2004	ake	441	839	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	09/10/2004	ake	441	839	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	09/10/2004	ake	441	839	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	09/10/2004	ake	441	839	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	09/10/2004	ake	441	839	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	09/10/2004	ake	441	839	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	09/10/2004	ake	441	839	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	09/10/2004	ake	441	839	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	09/10/2004	ake	441	839	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	09/10/2004	ake	441	839	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	09/10/2004	ake	441	839	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821109	FB-1S					08/31/2004 18:30				
Phenol-d6 (surr)	31	%		100	100	09/10/2004	ake	441	839	SW 8270C
2-Fluorophenol (surr)	48	%		100	100	09/10/2004	ake	441	839	SW 8270C
Tribromophenol (surr)	90	%		100	100	09/10/2004	ake	441	839	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/02/2004	acm	230		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	09/05/2004	kak	230	641	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	09/05/2004	kak	230	641	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	09/05/2004	kak	230	641	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	09/05/2004	kak	230	641	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	09/05/2004	kak	230	641	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	09/05/2004	kak	230	641	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	09/05/2004	kak	230	641	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	09/05/2004	kak	230	641	SW 8082
Decachlorobiphenyl (Surr.)	42	%				09/05/2004	kak	230	641	SW 8082
Tetrachlorometaxylene (Surr.)	73	%				09/05/2004	kak	230	641	SW 8082
Extraction Prep	COMPLETE					09/02/2004	acm	2686		IOWA-OA2
EXTRACTABLE HYDROCARBONS-WAT										
Total Extractable Hydrocarbo	<380		ug/L	380	380	09/21/2004	ljm	2686	4694	IA-OA2/S-8015
Diesel	<380		ug/L	85	380	09/21/2004	ljm	2686	4694	IA-OA2/S-8015
Gasoline	<380		ug/L	129	380	09/21/2004	ljm	2686	4694	IA-OA2/S-8015
Motor Oil	<380		ug/L	84	380	09/21/2004	ljm	2686	4694	IA-OA2/S-8015
N-Octacosane (Surr.)	94	%		100	100	09/21/2004	ljm	2686	4694	IA-OA2/S-8015
VOA Preservation pH	<2		units	NA		09/07/2004	dmd		1039	SW 9041A

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821110	TB-2					08/31/2004 09:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/04/2004	dmd		5624	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/04/2004	dmd		5624	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/04/2004	dmd		5624	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
n-Butylbenzene	<0.13		ug/L	0.13	0.39	09/04/2004	dmd		5624	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/04/2004	dmd		5624	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd		5624	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/04/2004	dmd		5624	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/04/2004	dmd		5624	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/04/2004	dmd		5624	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821110	SAMPLE DESCRIPTION TB-2					DATE-TIME TAKEN 08/31/2004 09:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/04/2004	dmd		5624	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/04/2004	dmd		5624	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/04/2004	dmd		5624	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/04/2004	dmd		5624	SW 8260B
rans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/04/2004	dmd		5624	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd		5624	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/04/2004	dmd		5624	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/04/2004	dmd		5624	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/04/2004	dmd		5624	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/04/2004	dmd		5624	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/04/2004	dmd		5624	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/04/2004	dmd		5624	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821110	TB-2					08/31/2004 09:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/04/2004	dmd	5624	SW 8260B	
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/04/2004	dmd	5624	SW 8260B	
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	SW 8260B	
Toluene	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	SW 8260B	
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/04/2004	dmd	5624	SW 8260B	
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/04/2004	dmd	5624	SW 8260B	
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/04/2004	dmd	5624	SW 8260B	
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/04/2004	dmd	5624	SW 8260B	
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/04/2004	dmd	5624	SW 8260B	
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/04/2004	dmd	5624	SW 8260B	
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/04/2004	dmd	5624	SW 8260B	
Dibromofluoromethane (surr)	101		%			09/04/2004	dmd	5624	SW 8260B	
Toluene-d8 (surr)	97		%			09/04/2004	dmd	5624	SW 8260B	
4-Bromofluorobenzene (surr)	86		%			09/04/2004	dmd	5624	SW 8260B	
VOA Preservation pH	<2		units	NA		09/07/2004	dmd	1039	SW 9041A	

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1393	235.0	ug/L	241	103		09/02/2004
Cyanide, Total mdl		1393	235.0	ug/L	240	102		09/02/2004
Cyanide, Total mdl		1393	235.0	ug/L	241	103		09/02/2004
Cyanide, Total mdl		1393	235.0	ug/L	240	102		09/02/2004
Cyanide, Total mdl		1393	117.5	ug/L	123	105		09/02/2004
Cyanide, Total mdl		1393	117.5	ug/L	120	102		09/02/2004
Cyanide, Total mdl		1393	117.5	ug/L	120	102		09/02/2004
Cyanide, Total mdl		1393	117.5	ug/L	119	101		09/02/2004
Dissolved ICP Metals		1679	1.0		1.0	100		09/10/2004
Barium, Diss (ICP) mdl		6370	5.00	mg/L	4.98	100		09/10/2004
Barium, Diss (ICP) mdl		6370	5.00	mg/L	5.21	104		09/10/2004
Chromium, Diss (ICP) mdl		6386	5.00	mg/L	5.03	101		09/10/2004
Chromium, Diss (ICP) mdl		6386	5.00	mg/L	5.28	106		09/10/2004
Silver, Diss (ICP) mdl		6384	1.000	mg/L	1.00	100		09/10/2004
Silver, Diss (ICP) mdl		6384	1.000	mg/L	1.00	100		09/10/2004
Arsenic, Diss (GFAA) mdl		49	0.0150	mg/L	0.0152	101		09/09/2004
Cadmium, Diss (GFAA) mdl		38	0.0010	mg/L	0.00104	104		09/08/2004
Lead, Diss (GFAA) mdl		42	0.0375	mg/L	0.0363	97		09/07/2004
Mercury, diss mdl		798	3.00	ug/L	3.06	102		09/03/2004
Selenium, Diss (GFAA) mdl		37	0.0375	mg/L	0.03806	102		09/09/2004
VOLATILE COMPOUNDS								
Benzene		5624	100.0	ug/L	96.0	96		09/04/2004
Chlorobenzene		5624	100.0	ug/L	103	103		09/04/2004
1,1-Dichloroethene		5624	100.0	ug/L	101	101		09/04/2004
Ethylbenzene		5624	100.0	ug/L	102	102		09/04/2004
MTBE		5624	100.0	ug/L	97.0	97		09/04/2004
1,2,4-Trimethylbenzene		5624	100.0	ug/L	103	103		09/04/2004
Toluene		5624	100.0	ug/L	102	102		09/04/2004
1,3,5-Trimethylbenzene		5624	100.0	ug/L	105	105		09/04/2004
Trichloroethylene		5624	100.0	ug/L	97.2	97		09/04/2004
Xylenes, Total		5624	300.0	ug/L	305	102		09/04/2004

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ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Dibromofluoromethane (surr)		5624	100.0000	%	101	101		09/04/2004
Toluene-d8 (surr)		5624	100.0000	%	104	104		09/04/2004
4-Bromofluorobenzene (surr)		5624	100.0000	%	105	105		09/04/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		839	50.0	ug/L	51.0	102		09/10/2004
1,4-Dichlorobenzene		839	50.0	ug/L	51.4	103		09/10/2004
2,4-Dinitrotoluene		839	50.0	ug/L	50.9	102		09/10/2004
N-Nitrosodi-n-propylamine		839	50.0	ug/L	49.9	100		09/10/2004
Pyrene		839	50.0	ug/L	53.0	106		09/10/2004
1,2,4-Trichlorobenzene		839	50.0	ug/L	51.6	103		09/10/2004
Nitrobenzene-d5 (surr)		839	100	%	106	106		09/10/2004
2-Fluorobiphenyl (surr)		839	100	%	101	101		09/10/2004
Terphenyl-d14 (surr)		839	100	%	105	105		09/10/2004
4-Chloro-3-methylphenol		839	50.0	ug/L	51.8	104		09/10/2004
2-chlorophenol		839	50.0	ug/L	53.0	106		09/10/2004
4-Nitrophenol		839	50.0	ug/L	52.2	104		09/10/2004
Pentachlorophenol		839	50.0	ug/L	56.5	113		09/10/2004
Phenol		839	50.0	ug/L	52.4	105		09/10/2004
Phenol-d6 (surr)		839	100.0	%	104	104		09/10/2004
2-Fluorophenol (surr)		839	100.0	%	104	104		09/10/2004
Tribromophenol (surr)		839	100.0	%	106	106		09/10/2004
PCBs Wisconsin Aqueous								
PCB-1254		641	0.96	ppm	0.91	95		09/04/2004
Decachlorobiphenyl (Surr.)		641	100	%	98	98		09/04/2004
Tetrachlorometaxylene (Surr.)		641	100	%	96	96		09/04/2004
PCBs Wisconsin Aqueous								
PCB-1254		641	0.64	ppm	0.66	103		09/05/2004
Decachlorobiphenyl (Surr.)		641	100	%	103	103		09/05/2004
Tetrachlorometaxylene (Surr.)		641	100	%	97	97		09/05/2004
EXTRACTABLE HYDROCARBONS-WATER								
Diesel		4694	2,500	ppm	2,510	100		09/21/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Gasoline		4694	2,500	ppm	2,300	92		09/21/2004
Motor Oil		4694	2,500	ppm	2,300	92		09/21/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1393	<0.0022		mg/L	0.0022	0.0078	09/02/2004
Dissolved ICP Metals		1679	COMPLETE					09/10/2004
Barium, Diss (ICP) mdl		6370	<0.0013		mg/L	0.0013	0.0047	09/10/2004
Chromium, Diss (ICP) mdl		6386	<0.0026		mg/L	0.0026	0.0092	09/10/2004
Silver, Diss (ICP) mdl		6384	<0.0038		mg/L	0.0038	0.0136	09/10/2004
Arsenic, Diss (GFAA) mdl		49	<0.00036		mg/L	0.00036	0.0013	09/09/2004
Cadmium, Diss (GFAA) mdl		38	<0.00014		mg/L	0.00014	0.00050	09/08/2004
Lead, Diss (GFAA) mdl		42	<0.00050		mg/L	0.00050	0.0018	09/07/2004
Selenium, Diss (GFAA) mdl		37	<0.0015		mg/L	0.0015	0.0053	09/09/2004
VOLATILE COMPOUNDS								
Benzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Bromodichloromethane		5624	<0.46		ug/L	0.46	1.4	09/04/2004
Bromoform		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Bromomethane		5624	<0.62		ug/L	0.62	1.9	09/04/2004
Bromobenzene		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Carbon disulfide		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Bromochloromethane		5624	<0.40		ug/L	0.40	1.2	09/04/2004
Carbon tetrachloride		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Dibromomethane		5624	<0.44		ug/L	0.44	1.3	09/04/2004
Chlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
n-Butylbenzene		5624	<0.13		ug/L	0.13	0.39	09/04/2004
sec-Butylbenzene		5624	<0.16		ug/L	0.16	0.48	09/04/2004
tert-Butylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chloroethane		5624	<0.12		ug/L	0.12	0.36	09/04/2004
Chloroform		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chloromethane		5624	<0.24		ug/L	0.24	0.72	09/04/2004
2-Chlorotoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
4-Chlorotoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Chlorodibromomethane		5624	<0.42		ug/L	0.42	1.3	09/04/2004
1,2-Dibromo-3-chloropropane		5624	<0.30		ug/L	0.30	0.90	09/04/2004
1,2-Dibromoethane (EDB)		5624	<0.42		ug/L	0.42	1.3	09/04/2004
1,2-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,3-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,4-Dichlorobenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Dichlorodifluoromethane		5624	<0.40		ug/L	0.4	1.2	09/04/2004
1,1-Dichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,2-Dichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Di-Isopropylether		5624	<0.32		ug/L	0.32	0.96	09/04/2004
1,3-Dichloropropane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
2,2-Dichloropropane		5624	<0.73		ug/L	0.73	2.2	09/04/2004
1,1-Dichloropropene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,1-Dichloroethene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
trans-1,2-Dichloroethene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
cis-1,2-Dichloroethene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
1,2-Dichloropropane		5624	<0.12		ug/L	0.12	0.36	09/04/2004
cis-1,3-Dichloropropene		5624	<0.43		ug/L	0.43	1.2	09/04/2004
trans-1,3-Dichloropropene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
Hexachlorobutadiene		5624	0.52	B	ug/L	0.22	0.66	09/04/2004
Ethylbenzene		5624	<0.43		ug/L	0.43	1.3	09/04/2004
Isopropylbenzene		5624	<0.44		ug/L	0.44	1.3	09/04/2004
p-Isopropyltoluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Hexane		5624	<0.18		ug/L	0.18	0.54	09/04/2004
MTBE		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Methylene chloride		5624	<0.63		ug/L	0.63	1.9	09/04/2004
Napthalene		5624	<0.86		ug/L	0.86	2.6	09/04/2004
n-Propylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Styrene		5624	<0.41		ug/L	0.41	1.2	09/04/2004
1,1,1,2-Tetrachloroethane		5624	<0.40		ug/L	0.40	1.2	09/04/2004
1,1,2,2-Tetrachloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,2,3-Trichlorobenzene		5624	0.91	B	ug/L	0.40	1.2	09/04/2004
1,2,4-Trichlorobenzene		5624	0.35	B	ug/L	0.25	0.75	09/04/2004
Tetrachloroethene		5624	<0.37		ug/L	0.37	1.1	09/04/2004
1,2,3-Trichloropropane		5624	<0.49		ug/L	0.49	1.5	09/04/2004
1,2,4-Trimethylbenzene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
Toluene		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,3,5-Trimethylbenzene		5624	<0.14		ug/L	0.14	0.42	09/04/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/22/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,1-Trichloroethane		5624	<0.25		ug/L	0.25	0.75	09/04/2004
1,1,2-Trichloroethane		5624	<0.10		ug/L	0.10	0.3	09/04/2004
Trichloroethylene		5624	<0.43		ug/L	0.43	1.3	09/04/2004
Trichlorofluoromethane		5624	<0.47		ug/L	0.47	1.4	09/04/2004
Vinyl chloride		5624	<0.47		ug/L	0.47	1.4	09/04/2004
Xylenes, Total		5624	<0.38		ug/L	0.38	1.1	09/04/2004
Dibromofluoromethane (surr)		5624	100.0		%			09/04/2004
Toluene-d8 (surr)		5624	95.0		%			09/04/2004
4-Bromofluorobenzene (surr)		5624	91.0		%			09/04/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	441	839	<2.9		ug/L	2.9	8.7	09/10/2004
Acenaphthylene	441	839	<2.52		ug/L	2.52	7.56	09/10/2004
Anthracene	441	839	<2.09		ug/L	2.09	6.27	09/10/2004
Benzidine	441	839	<2.15		ug/L	2.15	6.45	09/10/2004
Benzo(a)anthracene	441	839	<2.72		ug/L	2.72	8.16	09/10/2004
Benzo(b)fluoranthene	441	839	<2.57		ug/L	2.57	7.71	09/10/2004
Benzo(k)fluoranthene	441	839	<2.6		ug/L	2.6	7.8	09/10/2004
Benzo(a)pyrene	441	839	<2.47		ug/L	2.47	7.41	09/10/2004
Benzo(ghi)perylene	441	839	<2.78		ug/L	2.78	8.34	09/10/2004
Benzyl Alcohol	441	839	<2.5		ug/L	2.5	7.5	09/10/2004
Benzyl butyl phthalate	441	839	<2.73		ug/L	2.73	8.19	09/10/2004
Bis(2-chloroethyl)ether	441	839	<2.17		ug/L	2.17	6.51	09/10/2004
Bis(2-chloroethoxy)methane	441	839	<2.33		ug/L	2.33	6.99	09/10/2004
Bis(2-ethylhexyl)phthalate	441	839	<3.05		ug/L	3.05	9.15	09/10/2004
Bis(2chloroisopropyl)ether	441	839	<2.19		ug/L	2.19	6.57	09/10/2004
4-Bromophenyl phenyl ether	441	839	<3.27		ug/L	3.27	9.81	09/10/2004
4-Chloroaniline	441	839	<1.69		ug/L	1.69	5.07	09/10/2004
2-Chloronaphthalene	441	839	<2.32		ug/L	2.32	6.96	09/10/2004
4-Chlorophenylphenyl ether	441	839	<2.58		ug/L	2.58	7.74	09/10/2004
Chrysene	441	839	<2.67		ug/L	2.67	8.01	09/10/2004
Dibenzo(a,h)anthracene	441	839	<2.73		ug/L	2.73	8.19	09/10/2004
Dibenzofuran	441	839	<1.97		ug/L	1.97	5.91	09/10/2004
Di-n-butylphthalate	441	839	<2.49		ug/L	2.49	7.47	09/10/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/22/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2-Dichlorobenzene	441	839	<2.09		ug/L	2.09	6.27	09/10/2004
1,3-Dichlorobenzene	441	839	<2.09		ug/L	2.09	6.27	09/10/2004
1,4-Dichlorobenzene	441	839	<2.1		ug/L	2.1	6.3	09/10/2004
3,3-Dichlorobenzidine	441	839	<1.55		ug/L	1.55	4.65	09/10/2004
Diethyl phthalate	441	839	<2.49		ug/L	2.49	7.47	09/10/2004
1,2-Diphenylhydrazine	441	839	<2.36		ug/L	2.36	7.08	09/10/2004
Dimethyl phthalate	441	839	<2.58		ug/L	2.58	7.74	09/10/2004
2,4-Dinitrotoluene	441	839	<2.59		ug/L	2.59	7.77	09/10/2004
2,6-Dinitrotoluene	441	839	<1.55		ug/L	1.55	4.65	09/10/2004
Di-n-octylphthalate	441	839	<2.82		ug/L	2.82	8.46	09/10/2004
Fluoranthene	441	839	<2.08		ug/L	2.08	6.24	09/10/2004
Fluorene	441	839	<2.13		ug/L	2.13	6.39	09/10/2004
Hexachlorobenzene	441	839	<2.15		ug/L	2.15	6.45	09/10/2004
Hexachloro-1,3-butadiene	441	839	<2.41		ug/L	2.41	7.23	09/10/2004
Hexachlorocyclopentadiene	441	839	<1.78		ug/L	1.78	5.34	09/10/2004
Hexachloroethane	441	839	<1.94		ug/L	1.94	5.82	09/10/2004
Indeno(1,2,3-cd)pyrene	441	839	<2.6		ug/L	2.6	7.8	09/10/2004
Isophorone	441	839	<2.37		ug/L	2.37	7.11	09/10/2004
2-Methylnaphthalene	441	839	<2.23		ug/L	2.23	6.69	09/10/2004
Naphthalene	441	839	<2.68		ug/L	2.68	8.04	09/10/2004
2-Nitroaniline	441	839	<2.25		ug/L	2.25	6.75	09/10/2004
3-Nitroaniline	441	839	<1.84		ug/L	1.84	5.52	09/10/2004
4-Nitroaniline	441	839	<1.36		ug/L	1.36	4.08	09/10/2004
Nitrobenzene	441	839	<2.04		ug/L	2.04	6.12	09/10/2004
N-Nitrosodimethylamine	441	839	<2.01		ug/L	2.01	6.03	09/10/2004
N-Nitrosodiphenylamine	441	839	<2.59		ug/L	2.59	7.77	09/10/2004
N-Nitrosodi-n-propylamine	441	839	<2.44		ug/L	2.44	7.32	09/10/2004
N-Nitrosodi-n-butylamine	441	839	<2.76		ug/L	2.76	8.28	09/10/2004
N-Nitrosodiethylamine	441	839	<1.71		ug/L	1.71	5.13	09/10/2004
Phenanthrene	441	839	<2.56		ug/L	2.56	7.68	09/10/2004
N-Nitrosopyrrolidine	441	839	<2.55		ug/L	2.55	7.65	09/10/2004
Pentachlorobenzene	441	839	<1.51		ug/L	1.51	4.53	09/10/2004
Pyrene	441	839	<2.8		ug/L	2.8	8.4	09/10/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Pyridine	441	839	<1.36		ug/L	1.36	4.08	09/10/2004
1,2,4,5-Tetrachlorobenzene	441	839	<2.46		ug/L	2.46	7.38	09/10/2004
1,2,4-Trichlorobenzene	441	839	<2.33		ug/L	2.33	6.99	09/10/2004
Nitrobenzene-d5 (surr)	441	839	62.0		µ	100	100	09/10/2004
2-Fluorobiphenyl (surr)	441	839	61.0		µ	100	100	09/10/2004
Terphenyl-d14 (surr)	441	839	92.0		µ	100	100	09/10/2004
Benzoic Acid	441	839	<10.0		ug/L	10.0	30.0	09/10/2004
4-Chloro-3-methylphenol	441	839	<2.7		ug/L	2.7	8.1	09/10/2004
2-chlorophenol	441	839	<2.48		ug/L	2.48	7.44	09/10/2004
Cresols, Total	441	839	<4.42		ug/L	4.42	13.3	09/10/2004
2,4-Dichlorophenol	441	839	<2.66		ug/L	2.66	7.98	09/10/2004
2,4-Dimethylphenol	441	839	<1.49		ug/L	1.49	4.47	09/10/2004
2,4-Dinitrophenol	441	839	<2.59		ug/L	2.59	7.77	09/10/2004
2-Methyl-4,6-dinitrophenol	441	839	<2.98		ug/L	2.98	8.94	09/10/2004
2-Nitrophenol	441	839	<2.76		ug/L	2.76	8.28	09/10/2004
4-Nitrophenol	441	839	<1.8		ug/L	1.8	5.4	09/10/2004
2,5-Dinitrophenol	441	839	<4.21		ug/L	4.21	12.6	09/10/2004
Pentachlorophenol	441	839	<2.78		ug/L	2.78	8.34	09/10/2004
Phenol	441	839	<1.72		ug/L	1.72	5.16	09/10/2004
2,4,5-Trichlorophenol	441	839	<3.22		ug/L	3.22	9.66	09/10/2004
2,4,6-Trichlorophenol	441	839	<3.66		ug/L	3.66	11.0	09/10/2004
Phenol-d6 (surr)	441	839	25.0	OOC	µ	100	100	09/10/2004
2-Fluorophenol (surr)	441	839	40.0		µ	100	100	09/10/2004
Tribromophenol (surr)	441	839	78.0		µ	100	100	09/10/2004
PCBs Wisconsin Aqueous								
PCB 1016	230	641	<0.10		ug/L	0.10	0.30	09/05/2004
PCB-1242	230	641	<0.085		ug/L	0.085	0.26	09/05/2004
PCB-1221	230	641	<0.49		ug/L	0.49	1.5	09/05/2004
PCB-1232	230	641	<0.027		ug/L	0.027	0.081	09/05/2004
PCB-1248	230	641	<0.065		ug/L	0.065	0.20	09/05/2004
PCB-1254	230	641	<0.098		ug/L	0.098	0.29	09/05/2004
PCB-1260	230	641	<0.091		ug/L	0.091	0.27	09/05/2004
PCB-1268	230	641	<1.0		ug/L	1.0	1.0	09/05/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

TestAmerica Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Decachlorobiphenyl (Surr.)	230	641	34		%			09/05/2004
Tetrachlorometaxylene (Surr.)	230	641	74		%			09/05/2004
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	2686	4694	<380		ug/L	380	380	09/22/2004
Diesel	2686	4694	<380		ug/L	85	380	09/22/2004
Gasoline	2686	4694	<380		ug/L	129	380	09/22/2004
Motor Oil	2686	4694	<380		ug/L	84	380	09/22/2004
N-Octacosane (Surr.)	2686	4694	111		%	100	100	09/22/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1393	0.188	mg/L	0.195	104		09/02/2004
Mercury, diss mdl		798	1.64	ug/L	1.61	98		09/03/2004
VOLATILE COMPOUNDS								
Benzene		5624	20.0	ug/L	18.6	93		09/04/2004
Chlorobenzene		5624	20.0	ug/L	18.8	94		09/04/2004
1,1-Dichloroethene		5624	20.0	ug/L	19.7	98		09/04/2004
Ethylbenzene		5624	20.0	ug/L	18.1	90		09/04/2004
MTBE		5624	20.0	ug/L	20.0	100		09/04/2004
1,2,4-Trimethylbenzene		5624	20.0	ug/L	17.8	89		09/04/2004
Toluene		5624	20.0	ug/L	18.7	94		09/04/2004
1,3,5-Trimethylbenzene		5624	20.0	ug/L	18.1	90		09/04/2004
Trichloroethylene		5624	20.0	ug/L	17.4	87		09/04/2004
Xylenes, Total		5624	60.0	ug/L	55.3	92		09/04/2004
Dibromofluoromethane (surr)		5624	100	%	103.0	103		09/04/2004
Toluene-d8 (surr)		5624	100	%	98.0	98		09/04/2004
4-Bromofluorobenzene (surr)		5624	100	%	99.0	99		09/04/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	441	839	100.0	ug/L	77.6	78		09/10/2004
1,4-Dichlorobenzene	441	839	100.0	ug/L	61.5	62		09/10/2004
2,4-Dinitrotoluene	441	839	100.0	ug/L	85.9	86		09/10/2004
N-Nitrosodi-n-propylamine	441	839	100.0	ug/L	64.1	64		09/10/2004
Pyrene	441	839	100.0	ug/L	86.7	87		09/10/2004
1,2,4-Trichlorobenzene	441	839	100.0	ug/L	62.0	62		09/10/2004
Nitrobenzene-d5 (surr)	441	839	100	%	66.0	66		09/10/2004
2-Fluorobiphenyl (surr)	441	839	100	%	67.0	67		09/10/2004
Terphenyl-d14 (surr)	441	839	100	%	89.0	89		09/10/2004
4-Chloro-3-methylphenol	441	839	100.0	ug/L	79.8	80		09/10/2004
2-chlorophenol	441	839	100.0	ug/L	67.7	68		09/10/2004
4-Nitrophenol	441	839	100.0	ug/L	43.0	43		09/10/2004
Pentachlorophenol	441	839	100.0	ug/L	88.1	88		09/10/2004
Phenol	441	839	100.0	ug/L	29.9	30		09/10/2004
Phenol-d6 (surr)	441	839	100	%	27.0	27	OOO	09/10/2004
2-Fluorophenol (surr)	441	839	100	%	42.0	42		09/10/2004

OOO - Surrogate recovery outside QC limits due to matrix interferences.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Tribromophenol (surr)	441	839	100	%	86.0	86		09/10/2004
PCBs Wisconsin Aqueous								
PCB-1232	230	642	5.0	ug/L	3.4	68		09/07/2004
Decachlorobiphenyl (Surr.)	230	642	100	%	29	29	OOC	09/07/2004
Tetrachlorometaxylene (Surr.)	230	642	100	%	65	65		09/07/2004

OOC - Surrogate recovery outside QC limits due to matrix interferences.

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1679	1.0		COMPLETE				09/10/2004
Barium, Diss (ICP) mdl		6370	0.9615	mg/L	<0.0013	0.8476	88		09/10/2004
Chromium, Diss (ICP) mdl		6386	0.9615	mg/L	<0.0026	0.9153	95		09/10/2004
Arsenic, Diss (GFAA) mdl		49	0.227	mg/L	<0.0100	0.2124	94	R	09/09/2004
Cadmium, Diss (GFAA) mdl		38	0.00119	mg/L	<0.0005	0.00133	112		09/08/2004
Lead, Diss (GFAA) mdl		42	0.227	mg/L	<0.040	0.2132	94	R	09/07/2004
Selenium, Diss (GFAA) mdl		37	0.0238	mg/L	0.0124	0.01598	15	N,S	09/09/2004

N - Spike recovery for this analyte is out of control
R - Reporting limit elevated due to matrix interferences
S - Reported value determined by the method of standard additions

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job Number: 04.11999

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Dissolved ICP Metals		1679	COMPLETE	COMPLETE				09/10/2004	20
Barium, Diss (ICP) mdl	6370		0.028	0.028	mg/L	0.0		09/10/2004	20
Chromium, Diss (ICP) mdl	6386		0.0044	0.0054	mg/L	20.4	M	09/10/2004	20
Silver, Diss (ICP) mdl	6384		<0.0038	<0.0038	mg/L			09/10/2004	20
Arsenic, Diss (GFAA) mdl	49		<0.00036	<0.00036	mg/L			09/09/2004	20
Cadmium, Diss (GFAA) mdl	38		<0.0005	<0.0005	mg/L			09/08/2004	20
Lead, Diss (GFAA) mdl	42		<0.040	<0.040	mg/L		R	09/07/2004	20
Selenium, Diss (GFAA) mdl	37		<0.0050	<0.0050	mg/L			09/09/2004	

M - Duplicate (or MS/MSD) RPD is outside of control limits.
R - Reporting limit elevated due to matrix interferences

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Cindy Quast

Job Number: 04.11999

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Spike		
Cyanide, Total mdl		1393	<0.0022	<0.0022	0.188	mg/L	0	<0.002	0.188	mg/L	0	
Mercury, diss mdl		798	1.61	0.271	1.64	ug/L	81.6	1.75	1.64	ug/L	90.2	8.3
VOLATILE COMPOUNDS												
Benzene		5624	21	<0.25	20	ug/L	105.0	19.1	20.0	ug/L	95.5	9.5
Chlorobenzene		5624	22	0.25	20	ug/L	108.8	16.3	20.0	ug/L	80.3	29.8
1,1-Dichloroethene		5624	20	<0.25	20	ug/L	100.0	17.6	20.0	ug/L	88.0	12.8
Ethylbenzene		5624	16.8	<0.43	20.0	ug/L	84.0	12.9	20.0	ug/L	64.5	26.3
1,2,4-Trimethylbenzene		5624	7.0	<0.25	20.0	ug/L	35.0	5.2	20.0	ug/L	26.0	29.5
Toluene		5624	18	<0.25	20	ug/L	90.0	13.9	20.0	ug/L	69.5	25.7
1,3,5-Trimethylbenzene		5624	5.8	<0.14	20.0	ug/L	29.0	4.1	20.0	ug/L	20.5	34.3
Trichloroethylene		5624	18.8	<0.43	20.0	ug/L	94.0	16.8	20.0	ug/L	84.0	11.2
BNA - 8270 AQUEOUS WI												
Acenaphthene	441	839	180	<6.9	238.1	ug/L	75.6	188	238.1	ug/L	79.0	4.3
1,4-Dichlorobenzene	441	839	120	<5.0	238.1	ug/L	50.4	135	238.1	ug/L	56.7	11.8
2,4-Dinitrotoluene	441	839	208	<6.16	238.1	ug/L	87.4	211	238.1	ug/L	88.6	1.4
N-Nitrosodi-n-propylamine	441	839	143	<5.81	238.1	ug/L	60.1	170	238.1	ug/L	71.4	17.3
Pyrene	441	839	197	<6.7	238.1	ug/L	82.7	192	238.1	ug/L	80.6	2.6
1,2,4-Trichlorobenzene	441	839	140	<5.55	238.1	ug/L	58.8	147	238.1	ug/L	61.7	4.9
4-Chloro-3-methylphenol	441	839	182	<6.4	238.1	ug/L	76.4	186	238.1	ug/L	78.1	2.2
2-chlorophenol	441	839	141	<5.90	238.1	ug/L	59.2	158	238.1	ug/L	66.4	11.4
4-Nitrophenol	441	839	103	<4.3	238.1	ug/L	43.3	101	238.1	ug/L	42.4	2.0
Pentachlorophenol	441	839	219	<6.62	238.1	ug/L	92.0	214	238.1	ug/L	89.9	2.3
Phenol	441	839	62.8	<4.09	238.1	ug/L	26.4	70.4	238.1	ug/L	29.6	11.4

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/22/2004

Job No: 04.11999

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Cyanide, Total mdl		1393	0.188	mg/L	0.195		103.7		90 - 110		20
Mercury, diss mdl		798	1.64	ug/L	1.61		98.2		80 - 125		20
VOLATILE COMPOUNDS											
Benzene		5624	20.0	ug/L	18.6		93.0		81 - 124		27
Chlorobenzene		5624	20.0	ug/L	18.8		94.0		77 - 125		28
1,1-Dichloroethene		5624	20.0	ug/L	19.7		98.5		53 - 143		28
Ethylbenzene		5624	20.0	ug/L	18.1		90.5		65 - 140		24
MTBE		5624	20.0	ug/L	20.0		100.0		70 - 133		26
1,2,4-Trimethylbenzene		5624	20.0	ug/L	17.8		89.0		59 - 145		23
Toluene		5624	20.0	ug/L	18.7		93.5		73 - 127		21
1,3,5-Trimethylbenzene		5624	20.0	ug/L	18.1		90.5		63 - 141		24
Trichloroethylene		5624	20.0	ug/L	17.4		87.0		81 - 121		16
Xylenes, Total		5624	60.0	ug/L	55.3		92.2		75 - 130		20
Dibromofluoromethane (surr)		5624	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5624	100	%	98.0		98.0		76 - 120		50
4-Bromofluorobenzene (surr)		5624	100	%	99.0		99.0		76 - 116		50
A - 8270 AQUEOUS WI											
Benaphthene	441	839	100.0	ug/L	77.6		77.6		42 - 127		20
1,4-Dichlorobenzene	441	839	100.0	ug/L	61.5		61.5		30 - 101		20
2,4-Dinitrotoluene	441	839	100.0	ug/L	85.9		85.9		51 - 141		20
N-Nitrosodi-n-propylamine	441	839	100.0	ug/L	64.1		64.1		39 - 119		20
Pyrene	441	839	100.0	ug/L	86.7		86.7		44 - 130		20
1,2,4-Trichlorobenzene	441	839	100.0	ug/L	62.0		62.0		35 - 105		20
Nitrobenzene-d5 (surr)	441	839	100	%	66.0		66.0		37 - 127		20
2-Fluorobiphenyl (surr)	441	839	100	%	67.0		67.0		40 - 114		20
Terphenyl-d14 (surr)	441	839	100	%	89.0		89.0		38 - 116		20
4-Chloro-3-methylphenol	441	839	100.0	ug/L	79.8		79.8		41 - 127		20
2-chlorophenol	441	839	100.0	ug/L	67.7		67.7		35 - 107		20
4-Nitrophenol	441	839	100.0	ug/L	43.0		43.0		15 - 66		20
Pentachlorophenol	441	839	100.0	ug/L	88.1		88.1		19 - 109		20
Phenol	441	839	100.0	ug/L	29.9		29.9		D - 90		20
Phenol-d6 (surr)	441	839	100	%	27.0		27.0		28 - 109		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

09/22/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.11999

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
2-Fluorophenol (surr)	441	839	100	%	42.0		42.0		30 - 140		20
Tribromophenol (surr)	441	839	100	%	86.0		86.0		44 - 134		20
PCBs Wisconsin Aqueous											
PCB-1232	230	642	5.0	ug/L	3.4	4.0	68.0	80.0	10 - 215	16.2	20
Decachlorobiphenyl (Surr.)	230	642	100	%	29	26	29.0	26.0	37 - 134	10.9	
Tetrachlorometaxylene (Sur	230	642	100	%	65	71	65.0	71.0	37 - 115	8.8	

TestAmerica Job Number: 04.11999

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-1-04 Receiver's Initials CH Time (Delivered): 8:03

Temperature Record

Cooler ID# (If Applicable)
CF
2° °C / On Ice

Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svcs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

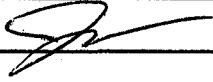
- Sample(s) not received in a cooler.
- Samples(s) received within 6 hrs of sampling.
- Temperature not taken:

mf 9/1/04 Per Ronn B., metals are filtered in field.

Log-In by:

JP MF EM

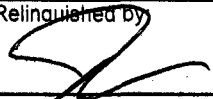
OT _____

Company: Howard R. Green Your PO #: _____
 Send Report To: CINDY QUAST Invoice To: HR26
 Address: 8710 Earhart Lane SW, P.O. Box 9009 TA Quote #: _____
 City/State/Zip Code: Cedar Rapids, IA 52409-9009 Project Name: CHAMBERLAIN
 Telephone Number: 319-847-4000 Fax: 319-847-4012 Project Number: 722930123
 Sampled by: (Print Name) JOHN RYAN Project Manager: CINDY QUAST
 (Signature)  Proj. Mgr. Telephone: 841-4429

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:					RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report													
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify)	CYANIDE	METALS (REGAB)	PCB'S					SVOC'S	VOC'S	OA-Z										
FIELD BLANK																																								
FB-1S	8/31/04	8:30	2	✓			✓						31		3B																									
TB-R	8/31/04	9:00	2	✓			✓						2			✓																								

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
NOTICE: Pre-Arrangements must be made **AT LEAST 48 Hours in ADVANCE** to receive results with RUSH turn around time commitments; additional charges may be assessed.
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
 NO TAX ACCOUNT # 15409
 NEED TO COMPARE RESULTS TO IOWA LPP STATEWIDE STANDARDS

Relinquished by:  Date: 9/1/04 Time: 8:03
 Received by: _____ Date: _____ Time: _____

Shipped Via: _____ Comments: _____ Shipped Via: _____
 Received for TestAmerica by: Connie Holst Date: 9-1-04 Time: 8:03
 Temperature Upon Receipt: _____ Laboratory Comments: _____



ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job: 04.12229

Project Number: 722930J23
Project: Chamberlain

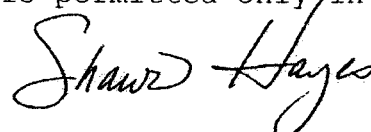
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
821940	TB-5	09/03/2004	09/03/2004
821941	SB-31 2'	09/03/2004	09/03/2004
821942	SB-29 2'	09/03/2004	09/03/2004
821943	SB-20 2'	09/03/2004	09/03/2004
821944	SB-20 6'	09/03/2004	09/03/2004
821945	SB-19 2'	09/03/2004	09/03/2004
821946	SB-19 6'	09/03/2004	09/04/2004
821947	SB-34 2'	09/02/2004	09/03/2004
821948	SB-34 4'	09/02/2004	09/03/2004
821949	SB-35 2'	09/02/2004	09/03/2004
821950	SB-35 6'	09/02/2004	09/03/2004
821951	SB-30 2'	09/02/2004	09/03/2004
821952	SB-30 14'	09/02/2004	09/03/2004
821953	SB-67 2'	09/02/2004	09/03/2004
821954	TB-4	09/02/2004	09/03/2004
821955	SB-39 2'	09/02/2004	09/03/2004
821956	SB-39 4'	09/02/2004	09/03/2004
821957	SB-37 2'	09/02/2004	09/03/2004
821958	SB-37 8'	09/02/2004	09/03/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job: 04.12229

Project Number: 722930J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
821959	SB-36 2'	09/02/2004	09/03/2004
821960	SB-36 8'	09/02/2004	09/03/2004
821961	SB-18 2'	09/03/2004	09/03/2004
821962	SB-18 4'	09/03/2004	09/03/2004
821963	SB-26 2'	09/03/2004	09/03/2004
821964	SB-27 2'	09/03/2004	09/03/2004
821965	SB-28 2'	09/03/2004	09/03/2004
821966	SB-89 2'	09/03/2004	09/03/2004
821967	SB-89 6'	09/03/2004	09/03/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821940	TB-5					09/03/2004 07:30				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/10/2004	dmd		5648	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/10/2004	dmd		5648	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/10/2004	dmd		5648	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/10/2004	dmd		5648	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/10/2004	dmd		5648	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821940	TB-5					09/03/2004 07:30				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/10/2004	dmd		5648	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/10/2004	dmd		5648	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Hexachlorobutadiene	0.24	B	ug/L	0.22	0.66	09/10/2004	dmd		5648	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/10/2004	dmd		5648	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/10/2004	dmd		5648	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/10/2004	dmd		5648	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821940	TB-5					09/03/2004 07:30				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/10/2004	dmd		5648	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/10/2004	dmd		5648	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Dibromofluoromethane (surr)	100		%			09/10/2004	dmd		5648	SW 8260B
Toluene-d8 (surr)	93		%			09/10/2004	dmd		5648	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/10/2004	dmd		5648	SW 8260B
VOA Preservation pH	<2		units	NA		09/11/2004	dmd		1043	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821941	SB-31 2'					09/03/2004 08:40				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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09/29/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821941	SAMPLE DESCRIPTION SB-31 2'					DATE-TIME TAKEN 09/03/2004 08:40				
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.5		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO. 821942 **SAMPLE DESCRIPTION** SB-29 2' **DATE-TIME TAKEN** 09/03/2004 08:45

VOLATILES - BTEX (NONAQUEOUS)										
Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.6		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821943	SB-20 2'					09/03/2004 09:05				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	91.8		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821944	SB-20 6'					09/03/2004 10:15				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.1		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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HOWARD R. GREEN-CR
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09/29/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821945	SAMPLE DESCRIPTION SB-19 2'					DATE-TIME TAKEN 09/03/2004 11:40				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.1		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO. 821946	SAMPLE DESCRIPTION SB-19 6'					DATE-TIME TAKEN 09/03/2004 11:55				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	89.8		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821947	SB-34 2'					09/02/2004 10:10				
5035 VOC Preservation	Complete					09/02/2004	sm1		9	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	95.87		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	1.27		mg/kg dw	0.22	1.0	09/07/2004	mrn	910	630	SW 7060A
Mercury, mdl	0.00609	B	mg/kg dw	0.00048	0.0054	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.021		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.078		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	35		mg/kg dw	0.203	0.52	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.88	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	5.6	B	mg/kg dw	0.41	1.0	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	10		mg/kg dw	5.2	5.2	09/09/2004	llw	1504	2820	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/09/2004	llw	1504	2797	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/09/2004	llw	1504	632	SW 6010B
VOA 8260 NON-AQUEOUS LRL										
Acetone	27.2		ug/kg dw	8.3	25	09/12/2004	mmk		1033	SW 8260B
Benzene	0.98		ug/kg dw	0.57	1.72	09/12/2004	mmk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/12/2004	mmk		1033	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.97	09/12/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.35		ug/kg dw	2.35	7.04	09/12/2004	mmk		1033	SW 8260B
Bromoform	<3.49		ug/kg dw	3.49	10.4	09/12/2004	mmk		1033	SW 8260B
Bromomethane	<5.11		ug/kg dw	5.11	15.1	09/12/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.09	09/12/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/12/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821947	SAMPLE DESCRIPTION SB-34 2'					DATE-TIME TAKEN 09/02/2004 10:10				
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/12/2004	mmk	1033	SW 8260B	
Chlorobenzene	<0.443		ug/kg dw	0.443	1.330	09/12/2004	mmk	1033	SW 8260B	
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.38	09/12/2004	mmk	1033	SW 8260B	
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/12/2004	mmk	1033	SW 8260B	
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/12/2004	mmk	1033	SW 8260B	
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk	1033	SW 8260B	
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk	1033	SW 8260B	
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/12/2004	mmk	1033	SW 8260B	
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk	1033	SW 8260B	
1,2-Dibromoethane (EDB)	<3.08		ug/kg dw	3.08	9.23	09/12/2004	mmk	1033	SW 8260B	
Dibromomethane	<0.78		ug/kg dw	0.78	2.35	09/12/2004	mmk	1033	SW 8260B	
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033	SW 8260B	
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033	SW 8260B	
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk	1033	SW 8260B	
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.97	09/12/2004	mmk	1033	SW 8260B	
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/12/2004	mmk	1033	SW 8260B	
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033	SW 8260B	
1,1-Dichloroethene	<0.349		ug/kg dw	0.349	1.04	09/12/2004	mmk	1033	SW 8260B	
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.97	09/12/2004	mmk	1033	SW 8260B	
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.35	09/12/2004	mmk	1033	SW 8260B	
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/12/2004	mmk	1033	SW 8260B	
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/12/2004	mmk	1033	SW 8260B	
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/12/2004	mmk	1033	SW 8260	
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/12/2004	mmk	1033	SW 8260B	
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.50	09/12/2004	mmk	1033	SW 8260B	
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.35	09/12/2004	mmk	1033	SW 8260B	

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821947	SB-34 2'					09/02/2004 10:10				
Ethylbenzene	0.66	B	ug/kg dw	0.57	1.72	09/12/2004	mmk	1033	1033	SW 8260B
Hexachlorobutadiene	<3.02		ug/kg dw	3.02	9.07	09/12/2004	mmk	1033	1033	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.09	09/12/2004	mmk	1033	1033	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/12/2004	mmk	1033	1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk	1033	1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/12/2004	mmk	1033	1033	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.09	09/12/2004	mmk	1033	1033	SW 8260B
MTBE	<4.95		ug/kg dw	4.95	14.8	09/12/2004	mmk	1033	1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	mmk	1033	1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	mmk	1033	1033	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/12/2004	mmk	1033	1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.63	09/12/2004	mmk	1033	1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033	1033	SW 8260B
Tetrachloroethene	4.33		ug/kg dw	0.68	2.03	09/12/2004	mmk	1033	1033	SW 8260B
Toluene	5.71		ug/kg dw	0.73	2.19	09/12/2004	mmk	1033	1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk	1033	1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk	1033	1033	SW 8260B
1,1,1-Trichloroethane	20.2		ug/kg dw	1.10	3.29	09/12/2004	mmk	1033	1033	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/12/2004	mmk	1033	1033	SW 8260B
Trichloroethylene	5.89		ug/kg dw	0.99	2.97	09/12/2004	mmk	1033	1033	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/12/2004	mmk	1033	1033	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/12/2004	mmk	1033	1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/12/2004	mmk	1033	1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk	1033	1033	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.35	09/12/2004	mmk	1033	1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk	1033	1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821947	SB-34 2'					09/02/2004 10:10				
4-Bromofluorobenzene (surr)	96		%			09/12/2004	mnk		1033	SW 8260B
Dibromofluoromethane (surr)	99		%			09/12/2004	mnk		1033	SW 8260B
Toluene-d8 (surr)	96		%			09/12/2004	mnk		1033	SW 8260B
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821948	SB-34 4'					09/02/2004 10:25				
5035 VOC Preservation	Complete					09/02/2004	sml		9	SW 846 - 5035
Cyanide, mdl	0.22		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	86.28		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	1.53		mg/kg dw	0.22	1.0	09/07/2004	mzm	910	630	SW 7060A
Mercury, mdl	0.00898	B	mg/kg dw	0.00048	0.0054	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.083		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.006		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	59		mg/kg dw	0.203	0.52	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	0.31		mg/kg dw	0.25	0.87	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	8.8	B	mg/kg dw	0.41	1.0	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	27		mg/kg dw	5.2	5.2	09/09/2004	llw	1504	2820	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/09/2004	llw	1504	2797	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/09/2004	llw	1504	632	SW 6010B
VOA 8260 NON-AQUEOUS LRL										

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821948	SB-34 4'					09/02/2004 10:25				
Acetone	16.5		ug/kg dw	8.3	25	09/12/2004	mnk		1033	SW 8260B
Benzene	2.07		ug/kg dw	0.57	1.71	09/12/2004	mnk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mnk		1033	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mnk		1033	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/12/2004	mnk		1033	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/12/2004	mnk		1033	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/12/2004	mnk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/12/2004	mnk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mnk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/12/2004	mnk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mnk		1033	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/12/2004	mnk		1033	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/12/2004	mnk		1033	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/12/2004	mnk		1033	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mnk		1033	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mnk		1033	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mnk		1033	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mnk		1033	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mnk		1033	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mnk		1033	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/12/2004	mnk		1033	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mnk		1033	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mnk		1033	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mnk		1033	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mnk		1033	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mnk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821948	SB-34 4'					09/02/2004 10:25				
1,1-Dichloroethane	<0.33		ug/kg dw	0.83	2.5	09/12/2004	munk		1033	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	munk		1033	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/12/2004	munk		1033	SW 8260B
cis-1,2-Dichloroethene	<0.39		ug/kg dw	0.99	2.96	09/12/2004	munk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	munk		1033	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/12/2004	munk		1033	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/12/2004	munk		1033	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/12/2004	munk		1033	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/12/2004	munk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/12/2004	munk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	munk		1033	SW 8260B
Ethylbenzene	1.12	B	ug/kg dw	0.57	1.71	09/12/2004	munk		1033	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/12/2004	munk		1033	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/12/2004	munk		1033	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/12/2004	munk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	munk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/12/2004	munk		1033	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/12/2004	munk		1033	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/12/2004	munk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	munk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	munk		1033	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/12/2004	munk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/12/2004	munk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	munk		1033	SW 8260B
Tetrachloroethene	4.05		ug/kg dw	0.68	2.03	09/12/2004	munk		1033	SW 8260B
Toluene	2.56		ug/kg dw	0.73	2.18	09/12/2004	munk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821948	SB-34 4'					09/02/2004 10:25				
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	20.3		ug/kg dw	1.09	3.27	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	7.53		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	100		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	101		%			09/12/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	96		%			09/12/2004	mmk		1033	SW 8260B

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821949	SB-35 2'					09/02/2004 12:10				
5035 VOC Preservation	Complete					09/02/2004	sml		9	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	96.86		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	1.89		mg/kg dw	0.22	1.0	09/07/2004	mrn	910	630	SW 7060A

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821949	SB-35 2'					09/02/2004 12:10				
Mercury, mdl	0.00534	B	mg/kg dw	0.00047	0.0054	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.106		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.044		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	26		mg/kg dw	0.201	0.52	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.87	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	4.5	B	mg/kg dw	0.40	1.0	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/09/2004	llw	1504	2820	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/09/2004	llw	1504	2797	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/09/2004	llw	1504	632	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/09/2004	acm	107		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/09/2004	acm	832		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	14.4		ug/kg dw	8.3	25	09/12/2004	mmk		1033	SW 8260B
Benzene	0.65		ug/kg dw	0.57	1.70	09/12/2004	mmk		1033	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/12/2004	mmk		1033	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.94	09/12/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.32		ug/kg dw	2.32	6.97	09/12/2004	mmk		1033	SW 8260B
Bromoform	<3.46		ug/kg dw	3.46	10.3	09/12/2004	mmk		1033	SW 8260B
Bromomethane	<5.06		ug/kg dw	5.06	15.0	09/12/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.06	09/12/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/12/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk		1033	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/12/2004	mmk		1033	SW 8260B
Chlorobenzene	<0.439		ug/kg dw	0.439	1.316	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
821949	SB-35 2'					09/02/2004 12:10					
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.34	09/12/2004	mmk		1033	SW 8260B	
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/12/2004	mmk		1033	SW 8260B	
Chloroform	<0.88		ug/kg dw	0.88	2.63	09/12/2004	mmk		1033	SW 8260B	
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/12/2004	mmk		1033	SW 8260B	
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.01	09/12/2004	mmk		1033	SW 8260B	
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.70	09/12/2004	mmk		1033	SW 8260B	
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk		1033	SW 8260B	
1,2-Dibromoethane (EDB)	<3.05		ug/kg dw	3.05	9.14	09/12/2004	mmk		1033	SW 8260B	
Dibromomethane	<0.77		ug/kg dw	0.77	2.32	09/12/2004	mmk		1033	SW 8260B	
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B	
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B	
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.01	09/12/2004	mmk		1033	SW 8260B	
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.94	09/12/2004	mmk		1033	SW 8260B	
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/12/2004	mmk		1033	SW 8260B	
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B	
1,1-Dichloroethene	<0.346		ug/kg dw	0.346	1.03	09/12/2004	mmk		1033	SW 8260B	
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.94	09/12/2004	mmk		1033	SW 8260B	
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.32	09/12/2004	mmk		1033	SW 8260B	
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/12/2004	mmk		1033	SW 8260B	
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.63	09/12/2004	mmk		1033	SW 8260B	
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260B	
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.63	09/12/2004	mmk		1033	SW 8260B	
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/12/2004	mmk		1033	SW 8260B	
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.32	09/12/2004	mmk		1033	SW 8260B	
Ethylbenzene	0.66	B	ug/kg dw	0.57	1.70	09/12/2004	mmk		1033	SW 8260B	
Hexachlorobutadiene	<2.99		ug/kg dw	2.99	8.98	09/12/2004	mmk		1033	SW 8260B	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821949	SB-35 2'					09/02/2004 12:10				
2-Hexanone	<0.57		ug/kg dw	0.57	2.06	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/12/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.06	09/12/2004	mmk		1033	SW 8260B
MTBE	<4.90		ug/kg dw	4.90	14.7	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.58	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
Tetrachloroethene	7.44		ug/kg dw	0.67	2.01	09/12/2004	mmk		1033	SW 8260B
Toluene	3.72		ug/kg dw	0.72	2.17	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	18.6		ug/kg dw	1.08	3.25	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	3.27		ug/kg dw	0.98	2.94	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	<0.45		ug/kg dw	0.45	1.38	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.4	5.2	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.77		ug/kg dw	0.77	2.32	09/12/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	98		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	101		%			09/12/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821949	SB-35 2'					09/02/2004 12:10				
Toluene-d8 (surr)	94		%			09/12/2004	mnk		1033	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.191	09/13/2004	ake	107	173	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.179	09/13/2004	ake	107	173	SW 8270C
Anthracene	<0.039		mg/kg dw	0.039	0.119	09/13/2004	ake	107	173	SW 8270C
Benzidine	<0.099		mg/kg dw	0.099	0.297	09/13/2004	ake	107	173	SW 8270C
Benzo(a)anthracene	<0.035		mg/kg dw	0.035	0.106	09/13/2004	ake	107	173	SW 8270C
Benzo(b)fluoranthene	<0.037		mg/kg dw	0.037	0.113	09/13/2004	ake	107	173	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.149	09/13/2004	ake	107	173	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.149	09/13/2004	ake	107	173	SW 8270C
Benzo(ghi)perylene	<0.039		mg/kg dw	0.039	0.119	09/13/2004	ake	107	173	SW 8270C
Benzyl alcohol	<0.082		mg/kg dw	0.082	0.246	09/13/2004	ake	107	173	SW 8270C
Benzyl butyl phthalate	<0.043		mg/kg dw	0.043	0.130	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethyl)ether	<0.078		mg/kg dw	0.078	0.236	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethoxy)methane	<0.075		mg/kg dw	0.075	0.225	09/13/2004	ake	107	173	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.032		mg/kg dw	0.032	0.097	09/13/2004	ake	107	173	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.261	09/13/2004	ake	107	173	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.146	09/13/2004	ake	107	173	SW 8270C
Carbazole	<0.039		mg/kg dw	0.039	0.119	09/13/2004	ake	107	173	SW 8270C
4-Chloroaniline	<0.105		mg/kg dw	0.105	0.316	09/13/2004	ake	107	173	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.22	09/13/2004	ake	107	173	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.167	09/13/2004	ake	107	173	SW 8270C
Chrysene	0.04		mg/kg dw	0.030	0.091	09/13/2004	ake	107	173	SW 8270C
Dibenzo(a,h)anthracene	<0.077		mg/kg dw	0.077	0.233	09/13/2004	ake	107	173	SW 8270C
Dibenzofuran	<0.047		mg/kg dw	0.047	0.142	09/13/2004	ake	107	173	SW 8270C
Di-n-butylphthalate	<0.043		mg/kg dw	0.043	0.130	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821949	SAMPLE DESCRIPTION SB-35 2'					DATE-TIME TAKEN 09/02/2004 12:10				
1,2-Dichlorobenzene	<0.104		mg/kg dw	0.104	0.313	09/13/2004	ake	107	173	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.279	09/13/2004	ake	107	173	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.258	09/13/2004	ake	107	173	SW 8270C
3,3-Dichlorobenzidine	<0.108		mg/kg dw	0.108	0.325	09/13/2004	ake	107	173	SW 8270C
Diethyl phthalate	<0.047		mg/kg dw	0.047	0.142	09/13/2004	ake	107	173	SW 8270C
Dimethyl phthalate	<0.042		mg/kg dw	0.042	0.127	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrotoluene	<0.047		mg/kg dw	0.047	0.142	09/13/2004	ake	107	173	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.200	09/13/2004	ake	107	173	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/13/2004	ake	107	173	SW 8270C
Fluoranthene	0.06		mg/kg dw	0.036	0.109	09/13/2004	ake	107	173	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.161	09/13/2004	ake	107	173	SW 8270C
Hexachlorobenzene	<0.029		mg/kg dw	0.029	0.088	09/13/2004	ake	107	173	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.177	09/13/2004	ake	107	173	SW 8270C
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.203	09/13/2004	ake	107	173	SW 8270C
Hexachloroethane	<0.083		mg/kg dw	0.083	0.249	09/13/2004	ake	107	173	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.031		mg/kg dw	0.031	0.094	09/13/2004	ake	107	173	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.179	09/13/2004	ake	107	173	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.194	09/13/2004	ake	107	173	SW 8270C
Naphthalene	<0.074		mg/kg dw	0.074	0.222	09/13/2004	ake	107	173	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.22	09/13/2004	ake	107	173	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.179	09/13/2004	ake	107	173	SW 8270C
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.210	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene	<0.076		mg/kg dw	0.076	0.230	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodimethylamine	<0.113		mg/kg dw	0.113	0.337	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodiphenylamine	<0.034		mg/kg dw	0.034	0.103	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodi-n-propylamine	<0.084		mg/kg dw	0.084	0.252	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821949	SB-35 2'					09/02/2004 12:10				
Phenanthrene	<0.038		mg/kg dw	0.038	0.116	09/13/2004	ake	107	173	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/13/2004	ake	107	173	SW 8270C
Pyridine	<0.114		mg/kg dw	0.114	0.340	09/13/2004	ake	107	173	SW 8270C
1,2,4-Trichlorobenzene	<0.074		mg/kg dw	0.074	0.222	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene-d5 (surr)	42	OOO	%			09/13/2004	ake	107	173	SW 8270C
2-Fluorobiphenyl (surr)	46	OOO	%			09/13/2004	ake	107	173	SW 8270C
Terphenyl-d14 (surr)	64	OOO	%			09/13/2004	ake	107	173	SW 8270C
Benzoic Acid	<0.33		mg/kg dw	0.33	1.0	09/13/2004	ake	107	173	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.219	09/13/2004	ake	107	173	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.261	09/13/2004	ake	107	173	SW 8270C
2-Methylphenol	<0.078		mg/kg dw	0.078	0.236	09/13/2004	ake	107	173	SW 8270C
4-Methylphenol	<0.081		mg/kg dw	0.081	0.25	09/13/2004	ake	107	173	SW 8270C
Cresols, Total	<0.160		mg/kg dw	0.160	0.480	09/13/2004	ake	107	173	SW 8270C
2,4-Dichlorophenol	<0.075		mg/kg dw	0.075	0.225	09/13/2004	ake	107	173	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.191	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.085	09/13/2004	ake	107	173	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.106		mg/kg dw	0.106	0.319	09/13/2004	ake	107	173	SW 8270C
2-Nitrophenol	<0.114		mg/kg dw	0.114	0.340	09/13/2004	ake	107	173	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.200	09/13/2004	ake	107	173	SW 8270C
Pentachlorophenol	<0.077	L	mg/kg dw	0.077	0.233	09/13/2004	ake	107	173	SW 8270C
Phenol	<0.077		mg/kg dw	0.077	0.233	09/13/2004	ake	107	173	SW 8270C
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.210	09/13/2004	ake	107	173	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.164	09/13/2004	ake	107	173	SW 8270C
Phenol-d6 (surr)	46	OOO	%			09/13/2004	ake	107	173	SW 8270C
2-Fluorophenol (surr)	41	OOO	%			09/13/2004	ake	107	173	SW 8270C
Tribromophenol (surr)	64	OOO	%			09/13/2004	ake	107	173	SW 8270C

L - LCS recovery is outside of control limits.

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
821949	SB-35 2'	09/02/2004 12:10

PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.15	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1260	<0.26		mg/kg dw	0.14	0.26	09/28/2004	kak	832	1896	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/28/2004	kak	832	1896	SW 8082
Decachlorobiphenyl (Surr.)	83		%	1	1	09/28/2004	kak	832	1896	SW 8082
Tetrachlorometaxylene (Surr.)	77		%	1	1	09/28/2004	kak	832	1896	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
821950	SB-35 6'	09/02/2004 13:15

5035 VOC Preservation	Complete					09/02/2004	sml	9		SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	96.29		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	1.51		mg/kg dw	0.22	1.0	09/07/2004	mrn	910	630	SW 7060A
Mercury, mdl	0.00169	B	mg/kg dw	0.00048	0.0054	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.067		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.012		g			09/08/2004	tdo	1504		SW 3050 B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
ICP Metals-Solid mdl										
Barium, (ICP) mdl	26		mg/kg dw	0.203	0.52	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.87	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	5.5	B	mg/kg dw	0.41	1.0	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/09/2004	llw	1504	2820	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/09/2004	llw	1504	2797	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/09/2004	llw	1504	632	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/09/2004	acm	107		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	13.7		ug/kg dw	8.3	25	09/12/2004	mmk		1033	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mmk		1033	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/12/2004	mmk		1033	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/12/2004	mmk		1033	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/12/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/12/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/12/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk		1033	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/12/2004	mmk		1033	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/12/2004	mmk		1033	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/12/2004	mmk		1033	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mmk		1033	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/12/2004	mmk		1033	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/12/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/12/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/12/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
Ethylbenzene	<0.57	B	ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/12/2004	mmk		1033	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/12/2004	mmk		1033	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
Tetrachloroethene	4.16		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B
Toluene	1.52		ug/kg dw	0.73	2.18	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	12.4		ug/kg dw	1.09	3.27	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	2.00		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	98		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	100		%			09/12/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	95		%			09/12/2004	mmk		1033	SW 8260B
BNA Soil 8270 MDL						09/12/2004	mmk		1033	SW 8260B
Acenaphthene	<0.064		mg/kg dw	0.064	0.194	09/13/2004	ake	107	173	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.182	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
Anthracene	<0.041		mg/kg dw	0.041	0.120	09/13/2004	ake	107	173	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.302	09/13/2004	ake	107	173	SW 8270C
Benzo(a)anthracene	0.06		mg/kg dw	0.036	0.108	09/13/2004	ake	107	173	SW 8270C
Benzo(b)fluoranthene	0.04		mg/kg dw	0.038	0.114	09/13/2004	ake	107	173	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.152	09/13/2004	ake	107	173	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.152	09/13/2004	ake	107	173	SW 8270C
Benzo(ghi)perylene	<0.041		mg/kg dw	0.041	0.120	09/13/2004	ake	107	173	SW 8270C
Benzyl alcohol	<0.083		mg/kg dw	0.083	0.250	09/13/2004	ake	107	173	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.133	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethyl)ether	<0.080		mg/kg dw	0.080	0.241	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethoxy)methane	<0.076		mg/kg dw	0.076	0.228	09/13/2004	ake	107	173	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.099	09/13/2004	ake	107	173	SW 8270C
Bis(2chloroisopropyl)ether	<0.088		mg/kg dw	0.088	0.265	09/13/2004	ake	107	173	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.149	09/13/2004	ake	107	173	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.120	09/13/2004	ake	107	173	SW 8270C
4-Chloroaniline	<0.107		mg/kg dw	0.107	0.321	09/13/2004	ake	107	173	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.169	09/13/2004	ake	107	173	SW 8270C
Chrysene	0.06		mg/kg dw	0.031	0.092	09/13/2004	ake	107	173	SW 8270C
Dibenzo(a,h)anthracene	<0.079		mg/kg dw	0.079	0.238	09/13/2004	ake	107	173	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.145	09/13/2004	ake	107	173	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.133	09/13/2004	ake	107	173	SW 8270C
1,2-Dichlorobenzene	<0.106		mg/kg dw	0.106	0.318	09/13/2004	ake	107	173	SW 8270C
1,3-Dichlorobenzene	<0.095		mg/kg dw	0.095	0.284	09/13/2004	ake	107	173	SW 8270C
1,4-Dichlorobenzene	<0.087		mg/kg dw	0.087	0.262	09/13/2004	ake	107	173	SW 8270C
3,3-Dichlorobenzidine	<0.110		mg/kg dw	0.110	0.330	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.145	09/13/2004	ake	107	173	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.130	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.145	09/13/2004	ake	107	173	SW 8270C
2,6-Dinitrotoluene	<0.068		mg/kg dw	0.068	0.204	09/13/2004	ake	107	173	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/13/2004	ake	107	173	SW 8270C
Fluoranthene	0.15		mg/kg dw	0.037	0.111	09/13/2004	ake	107	173	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.163	09/13/2004	ake	107	173	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.089	09/13/2004	ake	107	173	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.179	09/13/2004	ake	107	173	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.207	09/13/2004	ake	107	173	SW 8270C
Hexachloroethane	<0.084		mg/kg dw	0.084	0.253	09/13/2004	ake	107	173	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.096	09/13/2004	ake	107	173	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.182	09/13/2004	ake	107	173	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.197	09/13/2004	ake	107	173	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.225	09/13/2004	ake	107	173	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.182	09/13/2004	ake	107	173	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.213	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene	<0.078		mg/kg dw	0.078	0.235	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodimethylamine	<0.114		mg/kg dw	0.114	0.343	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.105	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodi-n-propylamine	<0.085		mg/kg dw	0.085	0.257	09/13/2004	ake	107	173	SW 8270C
Phenanthrene	0.07		mg/kg dw	0.039	0.117	09/13/2004	ake	107	173	SW 8270C
Pyrene	0.10		mg/kg dw	0.052	0.16	09/13/2004	ake	107	173	SW 8270C
Pyridine	<0.115		mg/kg dw	0.115	0.346	09/13/2004	ake	107	173	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.225	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821950	SB-35 6'					09/02/2004 13:15				
Nitrobenzene-d5 (surr)	64		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorobiphenyl (surr)	63	OOC	%			09/13/2004	ake	107	173	SW 8270C
Terphenyl-d14 (surr)	92		%			09/13/2004	ake	107	173	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/13/2004	ake	107	173	SW 8270C
4-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.222	09/13/2004	ake	107	173	SW 8270C
2-Chlorophenol	<0.088		mg/kg dw	0.088	0.265	09/13/2004	ake	107	173	SW 8270C
2-Methylphenol	<0.080		mg/kg dw	0.080	0.241	09/13/2004	ake	107	173	SW 8270C
4-Methylphenol	<0.082		mg/kg dw	0.082	0.25	09/13/2004	ake	107	173	SW 8270C
Cresols, Total	<0.162		mg/kg dw	0.162	0.487	09/13/2004	ake	107	173	SW 8270C
2,4-Dichlorophenol	<0.076		mg/kg dw	0.076	0.228	09/13/2004	ake	107	173	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.194	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.086	09/13/2004	ake	107	173	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.108		mg/kg dw	0.108	0.324	09/13/2004	ake	107	173	SW 8270C
2-Nitrophenol	<0.115		mg/kg dw	0.115	0.346	09/13/2004	ake	107	173	SW 8270C
4-Nitrophenol	<0.068		mg/kg dw	0.068	0.204	09/13/2004	ake	107	173	SW 8270C
Pentachlorophenol	<0.079	L	mg/kg dw	0.079	0.238	09/13/2004	ake	107	173	SW 8270C
Phenol	<0.079		mg/kg dw	0.079	0.238	09/13/2004	ake	107	173	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.213	09/13/2004	ake	107	173	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.166	09/13/2004	ake	107	173	SW 8270C
Phenol-d6 (surr)	66		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorophenol (surr)	62		%			09/13/2004	ake	107	173	SW 8270C
Tribromophenol (surr)	95		%			09/13/2004	ake	107	173	SW 8270C

L - LCS recovery is outside of control limits.
 OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 821951	SAMPLE DESCRIPTION SB-30 2'					DATE-TIME TAKEN 09/02/2004 14:40					
Extraction Prep, soil	COMPLETE					09/08/2004	acm	3179		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-SOI											
Total Extractable Hydrocarbo	150		mg/kg	10	10	09/24/2004	ljm	3179	5429	IA-OA2/S-8015	
Diesel	<10		mg/kg	6.7	10	09/24/2004	ljm	3179	5429	IA-OA2/S-8015	
Gasoline	<10		mg/kg	5.7	10	09/24/2004	ljm	3179	5429	IA-OA2/S-8015	
Motor Oil	150		mg/kg	7.1	10	09/24/2004	ljm	3179	5429	IA-OA2/S-8015	
N-Octacosane (Surr.)	234	p	%	1.0	1.0	09/24/2004	ljm	3179	5429	IA-OA2/S-8015	
VOLATILES - BTEX (NONAQUEOUS)											
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1	
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1	
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1	
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1	
4-Bromofluorobenzene (surr.)	89.6		%	1	1	09/08/2004	ake		5795	IA-OA1	

SAMPLE NO. 821952	SAMPLE DESCRIPTION SB-30 14'					DATE-TIME TAKEN 09/02/2004 15:45					
Extraction Prep, soil	COMPLETE					09/08/2004	acm	3179		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-SOI											
Total Extractable Hydrocarbo	<10		mg/kg	10	10	09/23/2004	ljm	3179	5424	IA-OA2/S-8015	
Diesel	<10		mg/kg	6.7	10	09/23/2004	ljm	3179	5424	IA-OA2/S-8015	
Gasoline	<10		mg/kg	5.7	10	09/23/2004	ljm	3179	5424	IA-OA2/S-8015	

p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821952	SB-30 14'					09/02/2004 15:45				
Motor Oil	<10		mg/kg	7.1	10	09/23/2004	ljm	3179	5424	IA-OA2/S-8015
N-Octacosane (Surr.)	93		%	1.0	1.0	09/23/2004	ljm	3179	5424	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.1		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821953	SB-67 2'					09/02/2004 16:55				
Solids, Total	95.62		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	1.13		mg/kg dw	0.22	1.0	09/07/2004	mzm	910	630	SW 7060A
Mercury, mdl	0.00312	B	mg/kg dw	0.00048	0.0054	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.057		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.079		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	16		mg/kg dw	0.204	0.52	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	1.9		mg/kg dw	0.25	0.88	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	6.2	B	mg/kg dw	0.41	1.0	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	8.8		mg/kg dw	5.2	5.2	09/09/2004	llw	1504	2820	SW 6010B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821953	SAMPLE DESCRIPTION SB-67 2'					DATE-TIME TAKEN 09/02/2004 16:55				
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/09/2004	11w	1504	2797	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.0	09/09/2004	11w	1504	632	SW 6010B

SAMPLE NO. 821954	SAMPLE DESCRIPTION TB-4					DATE-TIME TAKEN 09/02/2004 08:30				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/10/2004	dmd		5648	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/10/2004	dmd		5648	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/10/2004	dmd		5648	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/10/2004	dmd		5648	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229
 Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821954	TB-4					09/02/2004 08:30				
Chloromethane	<0.24		ug/L	0.24	0.72	09/10/2004	dmd		5648	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/10/2004	dmd		5648	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/10/2004	dmd		5648	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Hexachlorobutadiene	0.24	B	ug/L	0.22	0.66	09/10/2004	dmd		5648	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821954	SAMPLE DESCRIPTION TB-4					DATE-TIME TAKEN 09/02/2004 08:30				
Hexane	<0.18		ug/L	0.18	0.54	09/10/2004	dmd		5648	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/10/2004	dmd		5648	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/10/2004	dmd		5648	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trichlorobenzene	0.28	B	ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/10/2004	dmd		5648	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/10/2004	dmd		5648	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Dibromofluoromethane (surr)	106		%			09/10/2004	dmd		5648	SW 8260B
Toluene-d8 (surr)	91		%			09/10/2004	dmd		5648	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/10/2004	dmd		5648	SW 8260B
VOA Preservation pH	<2		units	NA		09/11/2004	dmd		1043	SW 9041A

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821955	SAMPLE DESCRIPTION SB-39 2'					DATE-TIME TAKEN 09/02/2004 08:25				
Cyanide, mdl	0.43		mg/kg dw	0.12	0.54	09/09/2004	tlz		868	SW 9012
Solids, Total	92.92		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Arsenic, (GFAA) mdl	3.13		mg/kg dw	0.23	1.1	09/07/2004	mrn	910	630	SW 7060A
Mercury, mdl	0.00433	B	mg/kg dw	0.00050	0.0056	09/09/2004	heh		2062	SW 7471A
GFAA Metals Digestion	1.078		g			09/07/2004	tdo	910		SW 3050 B
ICP Metals Prep (Solid)	1.018		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	65		mg/kg dw	0.210	0.54	09/09/2004	llw	1504	2798	SW 6010B
Cadmium, (ICP) mdl	4.2		mg/kg dw	0.26	0.90	09/09/2004	llw	1504	2804	SW 6010B
Chromium, (ICP) mdl	30	B	mg/kg dw	0.42	1.1	09/09/2004	llw	1504	2803	SW 6010B
Lead, (ICP) mdl	34		mg/kg dw	5.4	5.4	09/09/2004	llw	1504	2820	SW 6010B
Selenium, (ICP) mdl	33		mg/kg dw	8.1	8.1	09/09/2004	llw	1504	2797	SW 6010B
Silver, (ICP) mdl	<2.5		mg/kg dw	0.61	1.1	09/09/2004	llw	1504	632	SW 6010B

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
821956	SB-39 4'	09/02/2004 08:40
Cyanide, mdl	0.23	mg/kg dw 0.12 0.52 09/09/2004 tlz 868 SW 9012
Solids, Total	95.33	% 0.01 0.01 09/08/2004 sas 2749 SM 2540 G
Arsenic, (GFAA) mdl	2.41	mg/kg dw 0.22 1.0 09/07/2004 mrn 910 630 SW 7060A
Mercury, mdl	0.113	B mg/kg dw 0.00048 0.0055 09/09/2004 heh 2062 SW 7471A
GFAA Metals Digestion	1.040	g 09/07/2004 tdo 910 SW 3050 B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821956	SB-39 4'					09/02/2004 08:40				
ICP Metals Prep (Solid)	1.015		g			09/08/2004	tdo	1504		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	94		mg/kg dw	0.205	0.52	09/09/2004	11w	1504	2798	SW 6010B
Cadmium, (ICP) mdl	1.5		mg/kg dw	0.25	0.88	09/09/2004	11w	1504	2804	SW 6010B
Chromium, (ICP) mdl	14	B	mg/kg dw	0.41	1.0	09/09/2004	11w	1504	2803	SW 6010B
Lead, (ICP) mdl	44		mg/kg dw	5.2	5.2	09/09/2004	11w	1504	2820	SW 6010B
Selenium, (ICP) mdl	<16		mg/kg dw	7.9	7.9	09/09/2004	11w	1504	2797	SW 6010B
Silver, (ICP) mdl	<1.2		mg/kg dw	0.60	1.0	09/09/2004	11w	1504	632	SW 6010B
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821957	SB-37 2'					09/02/2004 09:00				
Cyanide, mdl	<0.12		mg/kg dw	0.12	0.53	09/09/2004	tlz		868	SW 9012
Solids, Total	94.58		%	0.01	0.01	09/08/2004	sas		2749	SM 2540 G

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 821958	SAMPLE DESCRIPTION SB-37 8'					DATE-TIME TAKEN 09/02/2004 09:10					
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012	
Solids, Total	96.49		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G	
SAMPLE NO. 821959	SAMPLE DESCRIPTION SB-36 2'					DATE-TIME TAKEN 09/02/2004 09:30					
Cyanide, mdl	3.4		mg/kg dw	0.12	0.52	09/09/2004	tlz		868	SW 9012	
Solids, Total	95.35		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G	
SAMPLE NO. 821960	SAMPLE DESCRIPTION SB-36 8'					DATE-TIME TAKEN 09/02/2004 09:40					
Cyanide, mdl	0.60		mg/kg dw	0.11	0.51	09/09/2004	tlz		868	SW 9012	
Solids, Total	98.09		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G	

ANALYTICAL REPORT

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 Cedar Rapids, IA 52404

09/29/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821961	SB-18 2'					09/03/2004 12:05				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.2		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821962	SB-18 4'					09/03/2004 12:20				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.8		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821963	SB-26 2'					09/03/2004 12:45				
Solids, Total	96.19		%	0.01	0.01	09/07/2004	sas		2747	SM 2540 G
Prep, PCB's Non-aqueous	COMPLETE					09/09/2004	acm	832		SW 3540
PCB's Non-Aqueous										
PCB-1016	<2.6		mg/kg dw	1.6	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1221	<2.6		mg/kg dw	2.0	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1232	<2.6		mg/kg dw	0.30	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1242	<2.6		mg/kg dw	0.51	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1248	<2.6		mg/kg dw	0.20	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1254	<2.6		mg/kg dw	0.26	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1260	<2.6		mg/kg dw	1.5	2.6	09/28/2004	kak	832	1896	SW 8082
PCB-1268	<2.6		mg/kg dw	0.65	2.6	09/28/2004	kak	832	1896	SW 8082
Decachlorobiphenyl (Surr.)	83		%	1	1	09/28/2004	kak	832	1896	SW 8082
Tetrachlorometaxylene (Surr.)	75		%	1	1	09/28/2004	kak	832	1896	SW 8082
Extraction Prep, soil	COMPLETE					09/08/2004	acm	3179		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	53.7		mg/kg	10	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Gasoline	13.9		mg/kg	5.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Motor Oil	39.8		mg/kg	7.1	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
N-Octacosane (Surr.)	99		%	1.0	1.0	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.6		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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09/29/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821964	SB-27 2'					09/03/2004 12:55				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	89.3		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821965	SB-28 2'					09/03/2004 13:00				
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	89.8		%	1	1	09/08/2004	ake		5795	IA-OA1

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821966	SB-89 2'					09/03/2004 14:40				
Extraction Prep, soil	COMPLETE					09/08/2004	acm	3179		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	10.4		mg/kg	10	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Motor Oil	10.4		mg/kg	7.1	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
N-Octacosane (Surr.)	92		%	1.0	1.0	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	89.8		%	1	1	09/08/2004	ake		5795	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
821967	SB-89 6'					09/03/2004 15:05				
Extraction Prep, soil	COMPLETE					09/08/2004	acm	3179		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	<10		mg/kg	10	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 821967	SAMPLE DESCRIPTION SB-89 6'								DATE-TIME TAKEN 09/03/2004 15:05	
Motor Oil	<10		mg/kg	7.1	10	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
N-Octacosane (Surr.)	90		%	1.0	1.0	09/24/2004	ljm	3179	5424	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/08/2004	ake		5795	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/08/2004	ake		5795	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/08/2004	ake		5795	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/08/2004	ake		5795	IA-OA1
4-Bromofluorobenzene (surr.)	90.2		%	1	1	09/08/2004	ake		5795	IA-OA1

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, mdl		868	0.2475	mg/kg	0.245	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.244	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.247	100		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.126	102		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
Arsenic, (GFAA) mdl		630	0.0250	mg/L	0.0264	106		09/07/2004
Arsenic, (GFAA) mdl		630	0.0250	mg/L	0.0270	108		09/07/2004
Mercury, mdl		2062	1.00	mg/L	1.02	102		09/09/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2798	5.00	mg/L	5.22	104		09/09/2004
Barium, (ICP) mdl		2798	5.00	mg/L	5.25	105		09/09/2004
Cadmium, (ICP) mdl		2804	5.00	mg/L	5.01	100		09/09/2004
Cadmium, (ICP) mdl		2804	5.00	mg/L	5.14	103		09/09/2004
Chromium, (ICP) mdl		2803	5.00	mg/L	5.10	102		09/09/2004
Chromium, (ICP) mdl		2803	5.00	mg/L	5.18	104		09/09/2004
Lead, (ICP) mdl		2820	5.00	mg/L	4.96	99		09/09/2004
Lead, (ICP) mdl		2820	5.00	mg/L	5.04	101		09/09/2004
Selenium, (ICP) mdl		2797	5.00	mg/L	4.93	99		09/09/2004
Selenium, (ICP) mdl		2797	5.00	mg/L	5.06	101		09/09/2004
VOLATILE COMPOUNDS								
Benzene		5648	100.0	ug/L	97.1	97		09/10/2004
Chlorobenzene		5648	100.0	ug/L	96.4	96		09/10/2004
1,1-Dichloroethene		5648	100.0	ug/L	98.7	99		09/10/2004
Ethylbenzene		5648	100.0	ug/L	98.5	98		09/10/2004
MTBE		5648	100.0	ug/L	89.8	90		09/10/2004
1,2,4-Trimethylbenzene		5648	100.0	ug/L	92.6	93		09/10/2004
Toluene		5648	100.0	ug/L	97.3	97		09/10/2004
1,3,5-Trimethylbenzene		5648	100.0	ug/L	93.2	93		09/10/2004
Trichloroethylene		5648	100.0	ug/L	99.5	100		09/10/2004
Xylenes, Total		5648	300.0	ug/L	291	97		09/10/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Dibromofluoromethane (surr)		5648	100.0000	%	98.9	99		09/10/2004
Toluene-d8 (surr)		5648	100.0000	%	101	101		09/10/2004
4-Bromofluorobenzene (surr)		5648	100.0000	%	99.7	100		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	100	ug/L	105	105		09/11/2004
Bromoform		1033	100	ug/L	91.2	91		09/11/2004
Chlorobenzene		1033	100	ug/L	104	104		09/11/2004
1,1-Dichloroethane		1033	100	ug/L	130	130		09/11/2004
1,1-Dichloroethene		1033	100	ug/L	131	131		09/11/2004
Ethylbenzene		1033	100	ug/L	108	108		09/11/2004
MTBE		1033	100	ug/L	118	118		09/11/2004
1,1,2,2-Tetrachloroethane		1033	100	ug/L	97.0	97		09/11/2004
Toluene		1033	100	ug/L	110	110		09/11/2004
Trichloroethylene		1033	100	ug/L	105	105		09/11/2004
1,2,4-Trimethylbenzene		1033	100	ug/L	87.2	87		09/11/2004
1,3,5-Trimethylbenzene		1033	100	ug/L	97.9	98		09/11/2004
Vinyl Chloride		1033	100	ug/L	129	129		09/11/2004
Xylenes, Total		1033	300	ug/L	308	103		09/11/2004
4-Bromofluorobenzene (surr)		1033	100	%	92	92		09/11/2004
Dibromofluoromethane (surr)		1033	100	%	104	104		09/11/2004
Toluene-d8 (surr)		1033	100	%	104	104		09/11/2004
BNA Soil 8270 MDL								
Acenaphthene		173	50	ug/L	53	106		09/13/2004
Bis(2-ethylhexyl)phthalate		173	50	ug/L	52	104		09/13/2004
1,4-Dichlorobenzene		173	50	ug/L	52	104		09/13/2004
2,4-Dinitrotoluene		173	50	ug/L	54	108		09/13/2004
N-Nitrosodi-n-propylamine		173	50	ug/L	49	98		09/13/2004
Pyrene		173	50	ug/L	53	106		09/13/2004
1,2,4-Trichlorobenzene		173	50	ug/L	51	102		09/13/2004
Nitrobenzene-d5 (surr)		173	50.0	%	54.2	108		09/13/2004
2-Fluorobiphenyl (surr)		173	50.0	%	52.6	105		09/13/2004



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Terphenyl-d14 (surr)		173	50.0	%	53.0	106		09/13/2004
4-Chloro-3-methylphenol		173	50	ug/L	51	102		09/13/2004
2-chlorophenol		173	50	ug/L	53	106		09/13/2004
4-Nitrophenol		173	50	ug/L	53	106		09/13/2004
Pentachlorophenol		173	50	ug/L	57	114		09/13/2004
Phenol		173	50	ug/L	53	106		09/13/2004
Phenol-d6 (surr)		173	100	%	53	53		09/13/2004
2-Fluorophenol (surr)		173	100	%	54	54		09/13/2004
Tribromophenol (surr)		173	100	%	54	54		09/13/2004
PCB's Non-Aqueous								
PCB-1254		1896	0.96	ppm	0.94	98		09/28/2004
Decachlorobiphenyl (Surr.)		1896	100	%	100	100		09/28/2004
Tetrachlorometaxylene (Surr.)		1896	100	%	105	105		09/28/2004
PCB's Non-Aqueous								
PCB-1221		1896	0.64	ppm	0.64	100		09/28/2004
Decachlorobiphenyl (Surr.)		1896	100	%	97	97		09/28/2004
Tetrachlorometaxylene (Surr.)		1896	100	%	98	98		09/28/2004
PCB's Non-Aqueous								
PCB-1221		1896	0.64	ppm	0.66	103		09/28/2004
Decachlorobiphenyl (Surr.)		1896	100	%	96	96		09/28/2004
Tetrachlorometaxylene (Surr.)		1896	100	%	98	98		09/28/2004
PCB's Non-Aqueous								
PCB-1254		1896	0.96	ppm	1.01	105		09/28/2004
Decachlorobiphenyl (Surr.)		1896	100	%	101	101		09/28/2004
Tetrachlorometaxylene (Surr.)		1896	100	%	103	103		09/28/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5424	2,500	mg/kg	2,440	98		09/23/2004
Gasoline		5424	2,500	mg/kg	2,230	89		09/23/2004
Motor Oil		5424	2,500	mg/kg	2,410	96		09/23/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5429	2,500	mg/kg	2,480	99		09/23/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Gasoline		5429	2,500	mg/kg	2,370	95		09/23/2004
Motor Oil		5429	2,500	mg/kg	2,360	94		09/23/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5795	100	mg/kg	106	106		09/08/2004
Toluene		5795	100	mg/kg	104	104		09/08/2004
Ethylbenzene		5795	100	mg/kg	109	109		09/08/2004
Xylenes, Total		5795	200	mg/kg	208	104		09/08/2004
4-Bromofluorobenzene (surr.)		5795	100.	%	102	102		09/08/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	910	630	<0.0021		mg/L	0.21	1.0	09/07/2004
Barium, (ICP) mdl	1504	2798	<0.0039		mg/L	0.195	0.50	09/09/2004
Cadmium, (ICP) mdl	1504	2804	<0.0048		mg/L	0.24	0.84	09/09/2004
Chromium, (ICP) mdl	1504	2803	0.0158		mg/L	0.39	1.0	09/09/2004
Lead, (ICP) mdl	1504	2820	<0.10		mg/L	5.0	5.0	09/09/2004
Selenium, (ICP) mdl	1504	2797	<0.15		mg/L	7.5	7.5	09/09/2004
Silver, (ICP) mdl	1504	632	<0.0114		mg/L	0.57	1.0	09/09/2004
VOLATILE COMPOUNDS								
Benzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromodichloromethane		5648	<0.46		ug/L	0.46	1.4	09/10/2004
Bromoform		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Bromomethane		5648	<0.62		ug/L	0.62	1.9	09/10/2004
Bromobenzene		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Carbon disulfide		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromochloromethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
Carbon tetrachloride		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dibromomethane		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Chlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
n-Butylbenzene		5648	0.14	B	ug/L	0.13	0.39	09/10/2004
sec-Butylbenzene		5648	<0.16		ug/L	0.16	0.48	09/10/2004
tert-Butylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloroethane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
Chloroform		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloromethane		5648	<0.24		ug/L	0.24	0.72	09/10/2004
2-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
4-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chlorodibromomethane		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dibromo-3-chloropropane		5648	<0.30		ug/L	0.30	0.90	09/10/2004
1,2-Dibromoethane (EDB)		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,4-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dichlorodifluoromethane		5648	<0.40		ug/L	0.4	1.2	09/10/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Di-Isopropylether		5648	<0.32		ug/L	0.32	0.96	09/10/2004
1,3-Dichloropropane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
2,2-Dichloropropane		5648	<0.73		ug/L	0.73	2.2	09/10/2004
1,1-Dichloropropene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
trans-1,2-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
cis-1,2-Dichloroethene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
1,2-Dichloropropane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
cis-1,3-Dichloropropene		5648	<0.43		ug/L	0.43	1.2	09/10/2004
trans-1,3-Dichloropropene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Hexachlorobutadiene		5648	0.68	B	ug/L	0.22	0.66	09/10/2004
Ethylbenzene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Isopropylbenzene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
p-Isopropyltoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Hexane		5648	<0.18		ug/L	0.18	0.54	09/10/2004
MTBE		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Methylene chloride		5648	<0.63		ug/L	0.63	1.9	09/10/2004
Napthalene		5648	<0.86		ug/L	0.86	2.6	09/10/2004
n-Propylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Styrene		5648	<0.41		ug/L	0.41	1.2	09/10/2004
1,1,1,2-Tetrachloroethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
1,1,2,2-Tetrachloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2,3-Trichlorobenzene		5648	1.18	B	ug/L	0.40	1.2	09/10/2004
1,2,4-Trichlorobenzene		5648	0.52	B	ug/L	0.25	0.75	09/10/2004
Tetrachloroethene		5648	<0.37		ug/L	0.37	1.1	09/10/2004
1,2,3-Trichloropropane		5648	<0.49		ug/L	0.49	1.5	09/10/2004
1,2,4-Trimethylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Toluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3,5-Trimethylbenzene		5648	<0.14		ug/L	0.14	0.42	09/10/2004
1,1,1-Trichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1,2-Trichloroethane		5648	<0.10		ug/L	0.10	0.3	09/10/2004

QUALITY CONTROL REPORT
BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichloroethylene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Trichlorofluoromethane		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Vinyl chloride		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Xylenes, Total		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Dibromofluoromethane (surr)		5648	105.0		%			09/10/2004
Toluene-d8 (surr)		5648	91.0		%			09/10/2004
4-Bromofluorobenzene (surr)		5648	92.0		%			09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1033	<8.0		ug/kg	8.0	24	09/11/2004
Benzene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
Bromobenzene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Bromochloromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
Bromodichloromethane		1033	<2.25		ug/kg	2.25	6.75	09/11/2004
Bromoform		1033	<3.35		ug/kg	3.35	10.0	09/11/2004
Bromomethane		1033	<4.90		ug/kg	4.90	14.5	09/11/2004
Methyl ethyl ketone (MEK)		1033	<0.85		ug/kg	0.85	2.00	09/11/2004
n-Butylbenzene		1033	<5.0		ug/kg	0.47	5.0	09/11/2004
sec-Butylbenzene		1033	<5.0		ug/kg	1.45	5.0	09/11/2004
tert-Butylbenzene		1033	<5.0		ug/kg	0.5	5.0	09/11/2004
Carbon tetrachloride		1033	<6.0		ug/kg	6.0	18.0	09/11/2004
Chlorobenzene		1033	<0.425		ug/kg	0.425	1.275	09/11/2004
Chlorodibromomethane		1033	<1.40		ug/kg	1.40	4.20	09/11/2004
Chloroethane		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Chloroform		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
Chloromethane		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
2-Chlorotoluene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
4-Chlorotoluene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
1,2-Dibromo-3-chloropropane		1033	<10		ug/kg	10	30	09/11/2004
1,2-Dibromoethane (EDB)		1033	<2.95		ug/kg	2.95	8.85	09/11/2004
Dibromomethane		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,3-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,4-Dichlorobenzene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
1,1-Dichloroethane		1033	<0.80		ug/kg	0.80	2.4	09/11/2004
1,2-Dichloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,1-Dichloroethene		1033	<0.335		ug/kg	0.335	1.00	09/11/2004
cis-1,2-Dichloroethene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
trans-1,2-Dichloroethene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichloropropane		1033	<0.43		ug/kg	0.43	1.29	09/11/2004
1,3-Dichloropropane		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
2,2-Dichloropropane		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
1,1-Dichloropropene		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
cis-1,3-Dichloropropene		1033	<0.80		ug/kg	0.80	2.40	09/11/2004
trans-1,3-Dichloropropene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Ethylbenzene		1033	1.05	B	ug/kg	0.55	1.65	09/11/2004
Hexachlorobutadiene		1033	<2.90		ug/kg	2.90	8.70	09/11/2004
2-Hexanone		1033	<0.55		ug/kg	0.55	2.00	09/11/2004
Isopropylbenzene		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
p-Isopropyltoluene		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
Methylene chloride		1033	<50		ug/kg	7.0	50	09/11/2004
Methyl isobutyl ketone		1033	<0.70		ug/kg	0.70	2.00	09/11/2004
MTBE		1033	<4.75		ug/kg	4.75	14.2	09/11/2004
Naphthalene		1033	<5.0		ug/kg	0.80	5.0	09/11/2004
n-Propylbenzene		1033	<5.0		ug/kg	0.55	5.0	09/11/2004
Styrene		1033	<0.38		ug/kg	0.38	1.14	09/11/2004
1,1,1,2-Tetrachloroethane		1033	<1.80		ug/kg	1.80	5.40	09/11/2004
1,1,2,2-Tetrachloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
Tetrachloroethene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
Toluene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
1,2,3-Trichlorobenzene		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
1,2,4-Trichlorobenzene		1033	<5.0		ug/kg	0.32	5.0	09/11/2004
1,1,1-Trichloroethane		1033	<1.05		ug/kg	1.05	3.15	09/11/2004
1,1,2-Trichloroethane		1033	<1.2		ug/kg	1.2	3.6	09/11/2004
Trichloroethylene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
Trichlorofluoromethane		1033	<0.44		ug/kg	0.44	1.34	09/11/2004

QUALITY CONTROL REPORT BLANKS

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09/29/2004

TestAmerica Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2,3-Trichloropropane		1033	<0.90		ug/kg	0.90	2.7	09/11/2004
1,2,4-Trimethylbenzene		1033	<5.0		ug/kg	1.4	5.0	09/11/2004
1,3,5-Trimethylbenzene		1033	<5.0		ug/kg	2.3	5.0	09/11/2004
Vinyl Chloride		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Xylenes, Total		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
4-Bromofluorobenzene (surr)		1033	90		%			09/11/2004
Dibromofluoromethane (surr)		1033	101		%			09/11/2004
Toluene-d8 (surr)		1033	99		%			09/11/2004
BNA Soil 8270 MDL								
Acenaphthene	107	173	<0.063		mg/kg	0.063	0.189	09/13/2004
Acenaphthylene	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
Anthracene	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
Benzidine	107	173	<0.098		mg/kg	0.098	0.294	09/13/2004
Benzo(a)anthracene	107	173	<0.035		mg/kg	0.035	0.105	09/13/2004
Benzo(b)fluoranthene	107	173	<0.037		mg/kg	0.037	0.111	09/13/2004
Benzo(k)fluoranthene	107	173	<0.049		mg/kg	0.049	0.147	09/13/2004
Benzo(a)pyrene	107	173	<0.049		mg/kg	0.049	0.147	09/13/2004
Benzo(ghi)perylene	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
Benzyl alcohol	107	173	<0.081		mg/kg	0.081	0.243	09/13/2004
Benzyl butyl phthalate	107	173	<0.043		mg/kg	0.043	0.129	09/13/2004
Bis(2-chloroethyl)ether	107	173	<0.078		mg/kg	0.078	0.234	09/13/2004
Bis(2-chloroethoxy)methane	107	173	<0.074		mg/kg	0.074	0.222	09/13/2004
Bis(2-ethylhexyl)phthalate	107	173	<0.032		mg/kg	0.032	0.096	09/13/2004
Bis(2chloroisopropyl)ether	107	173	<0.086		mg/kg	0.086	0.258	09/13/2004
4-Bromophenyl phenyl ether	107	173	<0.048		mg/kg	0.048	0.144	09/13/2004
Carbazole	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
4-Chloroaniline	107	173	<0.104		mg/kg	0.104	0.312	09/13/2004
2-Chloronaphthalene	107	173	<0.070		mg/kg	0.070	0.21	09/13/2004
4-Chlorophenylphenyl ether	107	173	<0.055		mg/kg	0.055	0.165	09/13/2004
Chrysene	107	173	<0.030		mg/kg	0.030	0.090	09/13/2004
Dibenzo(a,h)anthracene	107	173	<0.077		mg/kg	0.077	0.231	09/13/2004
Dibenzofuran	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
Di-n-butylphthalate	107	173	<0.043		mg/kg	0.043	0.129	09/13/2004

QUALITY CONTROL REPORT BLANKS

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09/29/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2-Dichlorobenzene	107	173	<0.103		mg/kg	0.103	0.309	09/13/2004
1,3-Dichlorobenzene	107	173	<0.092		mg/kg	0.092	0.276	09/13/2004
1,4-Dichlorobenzene	107	173	<0.085		mg/kg	0.085	0.255	09/13/2004
3,3-Dichlorobenzidine	107	173	<0.107		mg/kg	0.107	0.321	09/13/2004
Diethyl phthalate	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
2,4-Dinitrotoluene	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
2,6-Dinitrotoluene	107	173	<0.066		mg/kg	0.066	0.198	09/13/2004
Di-n-octylphthalate	107	173	<0.060		mg/kg	0.060	0.18	09/13/2004
Fluorene	107	173	<0.053		mg/kg	0.053	0.159	09/13/2004
Hexachlorobenzene	107	173	<0.029		mg/kg	0.029	0.087	09/13/2004
Hexachlorocyclopentadiene	107	173	<0.058		mg/kg	0.058	0.174	09/13/2004
Hexachloro-1,3-butadiene	107	173	<0.067		mg/kg	0.067	0.201	09/13/2004
Hexachloroethane	107	173	<0.082		mg/kg	0.082	0.246	09/13/2004
Indeno(1,2,3-cd)pyrene	107	173	<0.031		mg/kg	0.031	0.093	09/13/2004
Isophorone	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
2-Methylnaphthalene	107	173	<0.064		mg/kg	0.064	0.192	09/13/2004
Naphthalene	107	173	<0.073		mg/kg	0.073	0.219	09/13/2004
2-Nitroaniline	107	173	<0.070		mg/kg	0.070	0.21	09/13/2004
3-Nitroaniline	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
4-Nitroaniline	107	173	<0.069		mg/kg	0.069	0.207	09/13/2004
Nitrobenzene	107	173	<0.076		mg/kg	0.076	0.228	09/13/2004
N-Nitrosodimethylamine	107	173	<0.111		mg/kg	0.111	0.333	09/13/2004
N-Nitrosodiphenylamine	107	173	<0.034		mg/kg	0.034	0.102	09/13/2004
N-Nitrosodi-n-propylamine	107	173	<0.083		mg/kg	0.083	0.249	09/13/2004
Phenanthrene	107	173	<0.038		mg/kg	0.038	0.114	09/13/2004
Pyrene	107	173	<0.050		mg/kg	0.050	0.15	09/13/2004
Pyridine	107	173	<0.112		mg/kg	0.112	0.336	09/13/2004
1,2,4-Trichlorobenzene	107	173	<0.073		mg/kg	0.073	0.219	09/13/2004
Nitrobenzene-d5 (surr)	107	173	63.0		%			09/13/2004
2-Fluorobiphenyl (surr)	107	173	64.0		%			09/13/2004
Terphenyl-d14 (surr)	107	173	104.0		%			09/13/2004
Benzoic Acid	107	173	<0.33		mg/kg	0.33	0.99	09/13/2004
4-Chloro-3-methylphenol	107	173	<0.072		mg/kg	0.072	0.216	09/13/2004



QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
2-chlorophenol	107	173	<0.086		mg/kg	0.086	0.258	09/13/2004
2-Methylphenol	107	173	<0.078		mg/kg	0.078	0.234	09/13/2004
4-Methylphenol	107	173	<0.080		mg/kg	0.080	0.24	09/13/2004
Cresols, Total	107	173	<0.158		mg/kg	0.158	0.474	09/13/2004
2,4-Dichlorophenol	107	173	<0.074		mg/kg	0.074	0.222	09/13/2004
2,4-Dimethylphenol	107	173	<0.063		mg/kg	0.063	0.189	09/13/2004
2,4-Dinitrophenol	107	173	<0.028		mg/kg	0.028	0.084	09/13/2004
2-Methyl-4,6-dinitrophenol	107	173	<0.105		mg/kg	0.105	0.315	09/13/2004
2-Nitrophenol	107	173	<0.112		mg/kg	0.112	0.336	09/13/2004
4-Nitrophenol	107	173	<0.066		mg/kg	0.066	0.198	09/13/2004
Pentachlorophenol	107	173	<0.077	L	mg/kg	0.077	0.231	09/13/2004
Phenol	107	173	<0.077		mg/kg	0.077	0.231	09/13/2004
2,4,5-Trichlorophenol	107	173	<0.069		mg/kg	0.069	0.207	09/13/2004
2,4,6-Trichlorophenol	107	173	<0.054		mg/kg	0.054	0.162	09/13/2004
Phenol-d6 (surr)	107	173	64.0		%			09/13/2004
2-Fluorophenol (surr)	107	173	62.0		%			09/13/2004
Tribromophenol (surr)	107	173	86.0		%			09/13/2004
PCB's Non-Aqueous								
PCB-1016	832	1895	<0.25		mg/kg	0.15	0.25	09/27/2004
PCB-1221	832	1895	<0.25		mg/kg	0.19	0.25	09/27/2004
PCB-1232	832	1895	<0.25		mg/kg	0.029	0.25	09/27/2004
PCB-1242	832	1895	<0.25		mg/kg	0.049	0.25	09/27/2004
PCB-1248	832	1895	<0.25		mg/kg	0.019	0.25	09/27/2004
PCB-1254	832	1895	<0.25		mg/kg	0.025	0.25	09/27/2004
PCB-1260	832	1895	<0.25		mg/kg	0.14	0.25	09/27/2004
PCB-1268	832	1895	<0.25		mg/kg	0.063	0.25	09/27/2004
Decachlorobiphenyl (Surr.)	832	1895	104		%	1	1	09/27/2004
Tetrachlorometaxylene (Surr.)	832	1895	81		%	1	1	09/27/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3179	5430	<10		mg/kg	10	10	09/25/2004
Diesel	3179	5430	<10		mg/kg	6.7	10	09/25/2004
Gasoline	3179	5430	<10		mg/kg	5.7	10	09/25/2004
Motor Oil	3179	5430	<10		mg/kg	7.1	10	09/25/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

09/29/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
N-Octacosane (Surr.)	3179	5430	95		%	1.0	1.0	09/25/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5795	<0.25		mg/kg	0.197	0.25	09/08/2004
Toluene		5795	<0.5		mg/kg	0.212	0.5	09/08/2004
Ethylbenzene		5795	<0.5		mg/kg	0.224	0.5	09/08/2004
Xylenes, Total		5795	<0.5		mg/kg	0.216	0.5	09/08/2004
4-Bromofluorobenzene (surr.)		5795	90.4		%	1	1	09/08/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, mdl		868	0.1980	mg/kg	0.194	98		09/09/2004
Arsenic, (GFAA) mdl	910	630	0.0400	mg/L	0.0350	88		09/07/2004
Mercury, mdl		2062	0.161	mg/kg	0.143	89	B	09/09/2004
Barium, (ICP) mdl	1504	2798	1.0	mg/L	0.9029	90		09/09/2004
Barium, (ICP) mdl	1504	2798	1.00	mg/L	0.9029	90		09/09/2004
Cadmium, (ICP) mdl	1504	2804	1.0	mg/L	0.9187	92		09/09/2004
Cadmium, (ICP) mdl	1504	2804	1.00	mg/L	0.9187	92		09/09/2004
Chromium, (ICP) mdl	1504	2803	1.0	mg/L	0.9710	97		09/09/2004
Chromium, (ICP) mdl	1504	2803	1.00	mg/L	0.9710	97		09/09/2004
Lead, (ICP) mdl	1504	2820	2.00	mg/L	1.86	93		09/09/2004
Selenium, (ICP) mdl	1504	2797	4.00	mg/L	3.69	92		09/09/2004
Silver, (ICP) mdl	1504	632	1.00	mg/L	0.9435	94		09/09/2004
VOLATILE COMPOUNDS								
Benzene		5648	20.0	ug/L	19.6	98		09/10/2004
Chlorobenzene		5648	20.0	ug/L	20.8	104		09/10/2004
1,1-Dichloroethene		5648	20.0	ug/L	20.2	101		09/10/2004
Ethylbenzene		5648	20.0	ug/L	19.8	99		09/10/2004
MTBE		5648	20.0	ug/L	18.7	94		09/10/2004
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1	116		09/10/2004
Toluene		5648	20.0	ug/L	22.3	112		09/10/2004
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6	118		09/10/2004
Trichloroethylene		5648	20.0	ug/L	17.4	87		09/10/2004
Xylenes, Total		5648	60.0	ug/L	64.2	107		09/10/2004
Dibromofluoromethane (surr)		5648	100	%	101.0	101		09/10/2004
Toluene-d8 (surr)		5648	100	%	105.0	105		09/10/2004
4-Bromofluorobenzene (surr)		5648	100	%	104.0	104		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	35.88	ug/kg	37.8	105		09/12/2004
Bromoform		1033	35.88	ug/kg	44.6	124		09/12/2004
Chlorobenzene		1033	35.88	ug/kg	37.4	104		09/12/2004
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	108		09/12/2004
1,1-Dichloroethane		1033	35.88	ug/kg	38.8	108		09/12/2004
Ethylbenzene		1033	35.88	ug/kg	40.2	112		09/12/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
MTBE		1033	35.88	ug/kg	41.7	116		09/12/2004
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	98		09/12/2004
Toluene		1033	35.88	ug/kg	36.9	103		09/12/2004
Trichloroethylene		1033	35.88	ug/kg	39.9	111		09/12/2004
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	100		09/12/2004
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	117		09/12/2004
Vinyl Chloride		1033	35.88	ug/kg	31.6	88		09/12/2004
Xylenes, Total		1033	107.6	ug/kg	115	107		09/12/2004
4-Bromofluorobenzene (surr)		1033	100	%	101	101		09/12/2004
Dibromofluoromethane (surr)		1033	100	%	101	101		09/12/2004
Toluene-d8 (surr)		1033	100	%	97	97		09/12/2004
BNA Soil 8270 MDL								
Acenaphthene	107	173	3.33	mg/kg	2.97	89		09/13/2004
1,4-Dichlorobenzene	107	173	3.33	mg/kg	2.04	61		09/13/2004
2,4-Dinitrotoluene	107	173	3.33	mg/kg	3.49	105		09/13/2004
N-Nitrosodi-n-propylamine	107	173	3.33	mg/kg	2.78	84		09/13/2004
Pyrene	107	173	3.33	mg/kg	3.09	93		09/13/2004
1,2,4-Trichlorobenzene	107	173	3.33	mg/kg	2.40	72		09/13/2004
Nitrobenzene-d5 (surr)	107	173	100	%	72.0	72		09/13/2004
2-Fluorobiphenyl (surr)	107	173	100	%	82.0	82		09/13/2004
Terphenyl-d14 (surr)	107	173	100	%	98.0	98		09/13/2004
4-Chloro-3-methylphenol	107	173	3.33	mg/kg	3.07	92		09/13/2004
2-chlorophenol	107	173	3.33	mg/kg	2.22	67		09/13/2004
4-Nitrophenol	107	173	3.33	mg/kg	3.23	97		09/13/2004
Pentachlorophenol	107	173	3.33	mg/kg	1.56	47	L	09/13/2004
Phenol	107	173	3.33	mg/kg	2.39	72		09/13/2004
Phenol-d6 (surr)	107	173	100	%	71.0	71		09/13/2004
2-Fluorophenol (surr)	107	173	100	%	60.0	60		09/13/2004
Tribromophenol (surr)	107	173	100	%	98.0	98		09/13/2004
PCB's Non-Aqueous								
PCB-1221	832	1895	0.17	mg/kg	0.14	82		09/27/2004
Decachlorobiphenyl (Surr.)	832	1895	100	%	107	107		09/27/2004
Tetrachlorometaxylene (Surr.)	832	1895	100	%	90	90		09/27/2004

L - LCS recovery is outside of control limits.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3179	5430	100	mg/kg	52.9	53		09/25/2004
N-Octacosane (Surr.)	3179	5430	100	%	89	89		09/25/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5795	12.0	mg/kg	14.4	120		09/08/2004
Toluene		5795	12.0	mg/kg	14.2	118		09/08/2004
Ethylbenzene		5795	12.0	mg/kg	14.9	124		09/08/2004
Xylenes, Total		5795	24.0	mg/kg	28.1	117		09/08/2004
4-Bromofluorobenzene (surr.)		5795	100.	%	91.5	92		09/08/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12229

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2747	95.87	95.69	%	0.2		09/07/2004	20
Solids, Total		2747	98.09	98.17	%	0.1		09/07/2004	20
Solids, Total		2749	1.44	1.44	%	0.0		09/08/2004	20
Solids, Total		2749	95.33	95.46	%	0.1		09/08/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Cindy Quast

Job Number: 04.12229

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD	Percent	MS/MSD		
	Batch	Batch	Spike								Result	Result
	Number	Number	Result	Result	Amount	Units	Recovery	Result	Amount	Units	Recovery	RPD
Cyanide, mdl		868	14	2.2	11	mg/kg dw	106.3	4.0	11	mg/kg dw	16.8	109.7
Arsenic, (GFAA) mdl	910	630	4.66	1.22	3.74	mg/kg dw	92.0	4.77	3.92	mg/kg dw	90.6	2.3
Mercury, mdl		2062	0.190	0.039	0.177	mg/kg dw	85.2	0.198	0.184	mg/kg dw	86.5	4.3
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1504	2798	103	17	97.8	mg/kg	87.9	96.2	93.9	mg/kg	84.3	6.8
Barium, (ICP) mdl	1504	2798	103	17	97.8	mg/kg	87.9	96.2	93.9	mg/kg	84.3	6.8
Cadmium, (ICP) mdl	1504	2804	83.7	<10	97.8	mg/kg	85.6	81.2	93.9	mg/kg	86.5	3.0
Cadmium, (ICP) mdl	1504	2804	83.7	<10	97.8	mg/kg	85.6	81.2	93.9	mg/kg	86.5	3.0
Chromium, (ICP) mdl	1504	2803	102	12	97.8	mg/kg	92.0	99.2	93.9	mg/kg	92.9	2.8
Chromium, (ICP) mdl	1504	2803	102	12	97.8	mg/kg	92.0	99.2	93.9	mg/kg	92.9	2.8
Lead, (ICP) mdl	1504	2820	253	86	196	mg/kg	85.2	244	188	mg/kg	84.0	3.6
Lead, (ICP) mdl	1504	2820	253	86	196	mg/kg	85.2	244	188	mg/kg	84.0	3.6
Selenium, (ICP) mdl	1504	2797	373	<7.5	391	mg/kg	95.4	335	376	mg/kg	89.1	10.7
Selenium, (ICP) mdl	1504	2797	373	<7.5	391	mg/kg	95.4	335	376	mg/kg	89.1	10.7
Silver, (ICP) mdl	1504	632	418	<10	449	mg/kg	93.1			mg/kg		
VOLATILE COMPOUNDS												
Benzene		5648	2,580	2,200	400.0	ug/L	95.0	2,770	400.0	ug/L	142.5	7.1
Ethylbenzene		5648	1,780	1,430	400.0	ug/L	87.5	1,940	400.0	ug/L	127.5	8.6
Toluene		5648	11,900	10,800	400.0	ug/L	275.0	12,600	400.0	ug/L	450.0	5.7
BNA Soil 8270 MDL												
Acenaphthene	107	173	3.01	<0.064	3.37	mg/kg dw	89.6	2.95	3.41	mg/kg dw	86.7	2.1
1,4-Dichlorobenzene	107	173	2.37	<0.087	3.37	mg/kg dw	70.6	2.06	3.41	mg/kg dw	60.6	14.0
2,4-Dinitrotoluene	107	173	3.46	<0.049	3.37	mg/kg dw	102.8	3.46	3.41	mg/kg dw	101.5	0.0
N-Nitrosodi-n-propylamine	107	173	2.93	<0.085	3.37	mg/kg dw	87.1	2.54	3.41	mg/kg dw	74.5	14.3
Pyrene	107	173	3.26	0.05	3.37	mg/kg dw	95.4	3.27	3.41	mg/kg dw	94.5	0.3
1,2,4-Trichlorobenzene	107	173	2.65	<0.074	3.37	mg/kg dw	78.8	2.24	3.41	mg/kg dw	65.8	16.9
4-Chloro-3-methylphenol	107	173	3.11	<0.073	3.37	mg/kg dw	92.3	3.12	3.41	mg/kg dw	91.5	0.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Cindy Quast

Job Number: 04.12229

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
2-chlorophenol	107	173	2.68	<0.088	3.37	mg/kg dw	79.8	2.38	3.41	mg/kg dw	70.0	11.8
4-Nitrophenol	107	173	3.18	<0.067	3.37	mg/kg dw	94.5	3.28	3.41	mg/kg dw	96.4	3.2
Pentachlorophenol	107	173	1.04	<0.078	3.37	mg/kg dw	31.0	1.26	3.41	mg/kg dw	37.0	18.8
Phenol	107	173	2.77	<0.078	3.37	mg/kg dw	82.2	2.42	3.41	mg/kg dw	70.9	13.5
PCB's Non-Aqueous												
PCB-1221	832	1896	<0.19	<0.26	0.18	mg/kg dw	70.6	<0.19	0.17	mg/kg dw	75.0	0.0
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3179	5432	NA	3,450	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3179	5430	938	1,180	66.5	mg/kg	0.0	2,020	65.1	mg/kg	1290.3	73.2
Motor Oil	3179	5430	NA	284	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5795	16.2	<0.25	11.8	mg/kg	137.3	17.9	12.2	mg/kg	146.7	10.0
Toluene		5795	16.0	<0.5	11.8	mg/kg	135.6	17.8	12.2	mg/kg	145.9	10.7
Ethylbenzene		5795	16.8	<0.5	11.8	mg/kg	142.4	18.6	12.2	mg/kg	152.5	10.2
Xylenes, Total		5795	31.9	<0.5	23.6	mg/kg	135.2	35.2	24.4	mg/kg	144.3	9.1

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job No: 04.12229

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
Cyanide, mdl		868	0.1980	mg/kg	0.194		98.0		90 - 110		20
Arsenic, (GFAA) mdl	910	630	0.0400	mg/L	0.0350		87.5		80 - 120		20
Mercury, mdl		2062	0.161	mg/kg	0.143		88.8		80 - 115		20
Barium, (ICP) mdl	1504	2798	1.0	mg/L	0.9029		90.3		90 - 110		20
Barium, (ICP) mdl	1504	2798	1.00	mg/L	0.9029		90.3		90 - 110		20
Cadmium, (ICP) mdl	1504	2804	1.0	mg/L	0.9187		91.9		90 - 110		20
Cadmium, (ICP) mdl	1504	2804	1.00	mg/L	0.9187		91.9		90 - 110		20
Chromium, (ICP) mdl	1504	2803	1.0	mg/L	0.9710		97.1		90 - 110		20
Chromium, (ICP) mdl	1504	2803	1.00	mg/L	0.9710		97.1		90 - 110		20
Lead, (ICP) mdl	1504	2820	2.00	mg/L	1.86		93.0		85 - 110		20
Selenium, (ICP) mdl	1504	2797	4.00	mg/L	3.69		92.3		90 - 110		20
Silver, (ICP) mdl	1504	632	1.00	mg/L	0.9435		94.4		80 - 120		20
VOLATILE COMPOUNDS											
Benzene		5648	20.0	ug/L	19.6		98.0		81 - 124		27
Chlorobenzene		5648	20.0	ug/L	20.8		104.0		77 - 125		28
1,1-Dichloroethene		5648	20.0	ug/L	20.2		101.0		53 - 143		28
Phylbenzene		5648	20.0	ug/L	19.8		99.0		65 - 140		24
MTBE		5648	20.0	ug/L	18.7		93.5		70 - 133		26
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1		115.5		59 - 145		23
Toluene		5648	20.0	ug/L	22.3		111.5		73 - 127		21
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6		118.0		63 - 141		24
Trichloroethylene		5648	20.0	ug/L	17.4		87.0		81 - 121		16
Xylenes, Total		5648	60.0	ug/L	64.2		107.0		75 - 130		20
Dibromofluoromethane (surr)		5648	100	%	101.0		101.0		85 - 118		50
Toluene-d8 (surr)		5648	100	%	105.0		105.0		76 - 120		50
4-Bromofluorobenzene (surr)		5648	100	%	104.0		104.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1033	35.88	ug/kg	37.8	39.8	105.4	110.9	68 - 158	5.2	20
Bromoform		1033	35.88	ug/kg	44.6	44.6	124.3	124.3	61 - 151	0.0	20
Chlorobenzene		1033	35.88	ug/kg	37.4	38.7	104.2	107.9	65 - 155	3.4	20
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	38.2	107.6	106.5	64 - 154	1.0	20
1,1-Dichloroethene		1033	35.88	ug/kg	38.8	38.9	108.1	108.4	55 - 148	0.3	20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job No: 04.12229

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCS Result	LCS % Rec	LCS % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Ethylbenzene		1033	35.88	ug/kg	40.2	39.0	112.0	108.7	69 - 159	3.0	20
MTBE		1033	35.88	ug/kg	41.7	42.2	116.2	117.6	71 - 161	1.2	20
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	33.1	98.4	92.3	63 - 153	6.4	20
Toluene		1033	35.88	ug/kg	36.9	38.5	102.8	107.3	68 - 158	4.2	20
Trichloroethylene		1033	35.88	ug/kg	39.9	40.1	111.2	111.8	61 - 151	0.5	20
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	37.4	100.3	104.2	68 - 158	3.8	20
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	40.5	117.1	112.9	66 - 156	3.6	20
Vinyl Chloride		1033	35.88	ug/kg	31.6	31.4	88.1	87.5	47 - 137	0.6	20
Xylenes, Total		1033	107.6	ug/kg	115	112	106.9	104.1	69 - 159	2.6	20
4-Bromofluorobenzene (surr)		1033	100	%	101	102	101.0	102.0	75 - 119	1.0	20
Dibromofluoromethane (surr)		1033	100	%	101	101	101.0	101.0	56 - 146	0.0	
Toluene-d8 (surr)		1033	100	%	97	96	97.0	96.0	52 - 142	1.0	
BNA Soil 8270 MDL											
Acenaphthene	107	173	3.33	mg/kg	2.97		89.2		69 - 108		35
1,4-Dichlorobenzene	107	173	3.33	mg/kg	2.04		61.3		49 - 96		35
2,4-Dinitrotoluene	107	173	3.33	mg/kg	3.49		104.8		68 - 129		35
N-Nitrosodi-n-propylamine	107	173	3.33	mg/kg	2.78		83.5		53 - 105		35
Pyrene	107	173	3.33	mg/kg	3.09		92.8		68 - 117		35
1,2,4-Trichlorobenzene	107	173	3.33	mg/kg	2.40		72.1		51 - 98		35
Nitrobenzene-d5 (surr)	107	173	100	%	72.0		72.0		56 - 113		
2-Fluorobiphenyl (surr)	107	173	100	%	82.0		82.0		67 - 107		
Terphenyl-d14 (surr)	107	173	100	%	98.0		98.0		66 - 115		
4-Chloro-3-methylphenol	107	173	3.33	mg/kg	3.07		92.2		67 - 115		35
2-chlorophenol	107	173	3.33	mg/kg	2.22		66.7		51 - 94		35
4-Nitrophenol	107	173	3.33	mg/kg	3.23		97.0		63 - 140		35
Pentachlorophenol	107	173	3.33	mg/kg	1.56		46.8		49 - 139		35
Phenol	107	173	3.33	mg/kg	2.39		71.8		50 - 98		35
Phenol-d6 (surr)	107	173	100	%	71.0		71.0		55 - 106		
2-Fluorophenol (surr)	107	173	100	%	60.0		60.0		52 - 96		
Tribromophenol (surr)	107	173	100	%	98.0		98.0		66 - 149		
PCB's Non-Aqueous											
PCB-1221	832	1895	0.17	mg/kg	0.14		82.4		70 - 130		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job No: 04.12229

Analyte	Prep Batch Number	Run Batch Number	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
Decachlorobiphenyl (Surr.)	832	1895	100	%	107		107.0		63 - 131		35
Tetrachlorometaxylene (Sur	832	1895	100	%	90		90.0		35 - 125		
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3179	5430	100	mg/kg	52.9		52.9		42 - 132		20
N-Octacosane (Surr.)	3179	5430	100	%	89		89.0		44 - 134		20
VOLATILES - BTEX (NONAQUEO											
Benzene		5795	12.0	mg/kg	14.4		120.0		78 - 151		20
Toluene		5795	12.0	mg/kg	14.2		118.3		79 - 151		20
Ethylbenzene		5795	12.0	mg/kg	14.9		124.2		79 - 157		20
Xylenes, Total		5795	24.0	mg/kg	28.1		117.1		76 - 149		20
4-Bromofluorobenzene (surr		5795	100.	%	91.5		91.5		78 - 124		

TestAmerica Job Number: 04.12229

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Company: **Howard R. Green**

Your PO #: _____

Send Report To: CINDY QUAST

Invoice To: HRG

Address: 8710 Earhart Lane SW, P.O. Box 9009

TA Quote #: _____

City/State/Zip Code: Cedar Rapids, IA 52409-9009

Project Name: CHAMBERLAIN

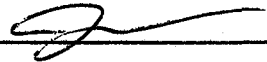
Telephone Number: 319-847-4000 Fax: 319-847-4012

Project Number: 722930J23

Sampled by: (Print Name) Jon Ryk

Project Manager: CINDY QUAST

(Signature)



Proj. Mgr. Telephone: (319) 841-4424


Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative						Matrix				Analyze For:				RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report											
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:					CYANIDE	METALS	PCBS	SVOCs (PWAS)	VOCs	OA-1	OA-2				
1 TB-5	9/3/09	0730	2	✓			✓																												
SB-3i 2'	9/3/09	0840	1	✓			✓																												
SB-29 2'	9/3/09	0845	1	✓			✓																												
SB-20 2'		9:05	1	✓			✓																												
SB-20 8' 6"		10:15	1	✓			✓																												
SB-19 2'		11:40	1	✓			✓																												
SB-19 6'		11:55	1	✓			✓																												

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.

NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
NO TAX ACCOUNT # 15404
NEED TO COMPARE RESULTS TO
IOWA LRA STATEWIDE STANDARDS

Relinquished by: 	Date: 9/3/09	Time: 17:00	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
---	--------------	-------------	--------------	-------	-------	------------------	-------	-------

Shipped Via:	Comments:	Shipped Via:
Received for TestAmerica by: <u>Edna Muehling</u>	Temperature Upon Receipt:	Laboratory Comments:
Date: 9-3-09	Time: 17:00	

Company: **Howard R. Green** Your PO #: _____

Send Report To: CINDY QUAST Invoice To: HRC

Address: 8710 Earhart Lane SW, P.O. Box 9009 TA Quote #: _____

City/State/Zip Code: Cedar Rapids, IA 52409-9009 Project Name: CHAMBERLAIN

Telephone Number: 319-847-4000 Fax: 319-847-4012 Project Number: 722930J23

Sampled by: (Print Name) JON RYK Project Manager: CINDY QUAST

(Signature) [Signature] Proj. Mgr. Telephone: (319) 841-4424

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:		RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report										
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:					Other Specify:	Other Specify:								
- SB-34	2'	9/2/04	10:10	4	✓		✓								✓																			
- SB-34	4'		10:25	4	✓		✓								✓																			
- SB-35	2'		12:10	6	✓		✓								✓																			
- SB-35	6'		13:15	5	✓		✓								✓																			
- SB-30	2'		14:40	2	✓		✓								✓																			
- SB-30	14'	✓	15:45	2	✓		✓								✓																			
SB-34 SB-67		✓	16:55	1	✓		✓								✓																			

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.

NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES: NO TAX ACCOUNT # 15409 NEED TO COMPARE RESULTS TO IOWA LRP STANDARDS STATEWIDE

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time
[Signature]	9/3/04	17:00						
Shipped Via:	Comments:	Shipped Via:						
Received for TestAmerica by:	Date	Time	Temperature Upon Receipt:	Laboratory Comments:				
Ema Meckling	9-3-04	17:00						

Company: **Howard R. Green**

Your PO #:

Send Report To: **CINDY QUAST**

Invoice To: **WAZE**

Address: 8710 Earhart Lane SW, P.O. Box 9009

TA Quote #:

City/State/Zip Code: Cedar Rapids, IA 52409-9009

Project Name: **CHAMPION LAWN**


Telephone Number: 319-847-4000

Fax: 319-847-4012

Project Number: **722930J23**

Sampled by: (Print Name) **JOE RYE**

Project Manager: **CINDY QUAST**

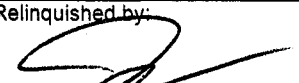
(Signature) 

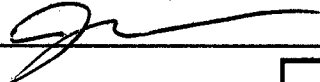
Proj. Mgr. Telephone: **(319) 847-4429**

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:						RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report						
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	CYANIDE	METALS (PCRB)	PCPB	SVOCs					↑ VOCs (BA1A3)	OA-1	OA-2			
TB-4	9/2/04	08:30	2	✓			✓																											
SB-39 2'	9/2/04	08:25	1				✓						✓												X	X								
SB-39 4'		08:40	1	✓			✓					✓												X	X									
SB-37 2'		09:00	1	✓			✓					✓												X	X									
SB-37 8'		09:10	1	✓			✓					✓												X	X									
SB-36 2'		09:30	1	✓			✓					✓												X	X									
SB-36 8'		09:40	1	✓			✓					✓												X	X									

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
 NO TAX ACCOUNT # 15409
 NEED TO COMPARE TO RESULTS TO
 IOWA LRP STATEWIDE STANDARDS

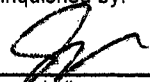
Relinquished by: 	Date 9/03/04	Time 17:00	Received by:	Date	Time	Relinquished by:	Date	Time
Shipped via:	Comments:	Received for TestAmerica by: Edna Muehlenberg	Date 9-3-04	Time 17:00	Temperature Upon Receipt:	Laboratory Comments:	Shipped Via:	

Company: Howard R. Green Your PO #: _____
 Send Report To: CINDY QUAST Invoice To: HR26
 Address: 8710 Earhart Lane SW, P.O. Box 9009 TA Quote #: _____
 City/State/Zip Code: Cedar Rapids, IA 52409-9009 Project Name: CHAMBERLAIN
 Telephone Number: 319-847-4000 Fax: 319-847-4012 Project Number: 722930 JZ3
 Sampled by: (Print Name) Jon Ryk Project Manager: CINDY QUAST
 (Signature)  Proj. Mgr. Telephone: (319) 841-4424

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Preservative						Matrix				Analyze For:				RUSH TAT (Must call ahead!)	Standard TAT	Fax Results	Send QC with report																	
							Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 Plastic (Yellow & White Label)	H2SO4 Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:					CYANIDE	PCPA & METALS	PCBS	SVOCs (BVALS)	VOCs	OA-1	OA-2										
SB-18 2'	9/3/04	12:05	1	✓			✓																																		
SB-18 4'		12:20	1	✓			✓																																		
SB-26 2'		12:45	3	✓			✓												X																						
SB-27 2'		12:55	1	✓			✓																																		
SB-28 2'		13:00	1	✓			✓																																		
SB-89 2'		14:10	2	✓			✓																																		
SB-89			2	✓			✓																																		

NOTE: All turn around times are calculated from the time of receipt at TestAmerica.
 NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.
 NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES:
 NO TAX ACCOUNT # 15404
 NEED TO COMPARE RESULTS TO
 IOWA LRP STATE WIDE STANDARDS

Relinquished by:  Date: 9/3/04 Time: 17:00
 Received by: _____ Date: _____ Time: _____
 Shipped Via: _____ Comments: _____ Shipped Via: _____
 Received for TestAmerica by: Erika Muehlberg Date: 9-304 Time: 17:00
 Temperature Upon Receipt: _____ Laboratory Comments: _____

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-3-04 Receiver's Initials AM Time (Delivered): 17:00

Temperature Record

Cooler ID# (If Applicable)

ES-4

6 °C / On Ice

TB 5

Thermometer:

IR - 905085 "A"

IR - 809065 "B"

CF07-03-T2

22126775

Courier:

Airborne

Speedy

UPS

TA Courier

Velocity

TA Field Sys

FedEx

Client

DHL

US Postal

Other

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

Sample(s) not received in a cooler.

Samples(s) received within 6 hrs of sampling.

Temperature not taken:

Log-In by:

JP MF EM

OT _____

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613 • 800-750-2401 • 319-277-2425 FAX

ANALYTICAL TESTING CORPORATION

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-3-04 Receiver's Initials AM Time (Delivered): 17:00

Temperature Record

Thermometer:

Courier:

Cooler ID# (If Applicable)

TA-8

5 °C / On Ice

TB 4 + rest

of vials

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

IR-905085 "A"

IR-809065 "B"

CF07-03-T2

22126775

Airhome

UPS

Velocity

FedEx

DHL

US Postal

Speedy

TA Courier

TA Field Svcs

Client

Other

Exceptions Noted

Sample(s) not received in a cooler.

Sample(s) received within 6 hrs of sampling.

Temperature not taken:

Log-In by:

JP MF EM

OT _____

*Refer to SOP CF01-01 for Temperature Criteria

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job: 04.12344

Project Number: 722930-J23
Project: Chamberlain

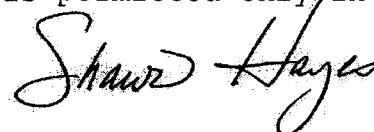
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
822362	TB-6	09/07/2004	09/08/2004
822363	SB-33 2'	09/07/2004	09/08/2004
822364	SB-33 8'	09/07/2004	09/08/2004
822365	SB-7 2'	09/07/2004	09/08/2004
822366	SB-7 8'	09/07/2004	09/08/2004
822367	SB-21 2'	09/07/2004	09/08/2004
822368	SB-21 10'	09/07/2004	09/08/2004
822369	SB-22 2'	09/07/2004	09/08/2004
822370	SB-22 4'	09/07/2004	09/08/2004
822371	SB-24 2'	09/07/2004	09/08/2004
822372	SB-24 10'	09/07/2004	09/08/2004
822373	SB-23 2'	09/07/2004	09/08/2004
822374	SB-23 6'	09/07/2004	09/08/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822362	TB-6					09/07/2004 07:45				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/10/2004	dmd		5648	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/10/2004	dmd		5648	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/10/2004	dmd		5648	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/10/2004	dmd		5648	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloroethane	0.15		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chloromethane	0.29		ug/L	0.24	0.72	09/10/2004	dmd		5648	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/10/2004	dmd		5648	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822362	TB-6					09/07/2004 07:45				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/10/2004	dmd		5648	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/10/2004	dmd		5648	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/10/2004	dmd		5648	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/10/2004	dmd		5648	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/10/2004	dmd		5648	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/10/2004	dmd		5648	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/10/2004	dmd		5648	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/10/2004	dmd		5648	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822362	SAMPLE DESCRIPTION TB-6					DATE-TIME TAKEN 09/07/2004 07:45				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/10/2004	dmd		5648	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/10/2004	dmd		5648	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/10/2004	dmd		5648	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/10/2004	dmd		5648	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/10/2004	dmd		5648	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/10/2004	dmd		5648	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/10/2004	dmd		5648	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/10/2004	dmd		5648	SW 8260B
Bromofluoromethane (surr)	110		%			09/10/2004	dmd		5648	SW 8260B
Toluene-d8 (surr)	95		%			09/10/2004	dmd		5648	SW 8260B
4-Bromofluorobenzene (surr)	84		%			09/10/2004	dmd		5648	SW 8260B
VOA Preservation pH	<2		units	NA		09/11/2004	dmd		1043	SW 9041A

SAMPLE NO. 822363	SAMPLE DESCRIPTION SB-33 2'					DATE-TIME TAKEN 09/07/2004 11:15				
5035 VOC Preservation	Complete					09/07/2004	sml		10	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	96.23		%	0.01	0.01	09/09/2004	sas		2751	SM 2540 G

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822363	SB-33 2'					09/07/2004 11:15				
VOA 8260 NON-AQUEOUS LRL										
Acetone	23.1		ug/kg dw	8.3	25	09/12/2004	mmk		1033	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mmk		1033	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/12/2004	mmk		1033	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/12/2004	mmk		1033	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/12/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/12/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/12/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk		1033	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/12/2004	mmk		1033	SW 8260B
Chlorobenzene	<0.442		ug/kg dw	0.442	1.325	09/12/2004	mmk		1033	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/12/2004	mmk		1033	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/12/2004	mmk		1033	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromoethane (EDB)	<3.07		ug/kg dw	3.07	9.20	09/12/2004	mmk		1033	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822363	SB-33 2'					09/07/2004 11:15				
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/12/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/12/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/12/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/12/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk		1033	SW 8260B
Ethylbenzene	<0.57	B	ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/12/2004	mmk		1033	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/12/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/12/2004	mmk		1033	SW 8260B
MTBE	<4.94		ug/kg dw	4.94	14.8	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
Tetrachloroethene	<0.68		ug/kg dw	0.68	2.03	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822363	SAMPLE DESCRIPTION SB-33 2'					DATE-TIME TAKEN 09/07/2004 11:15				
Toluene	0.78		ug/kg dw	0.73	2.18	09/12/2004	mmk	1033	SW 8260B	
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk	1033	SW 8260B	
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk	1033	SW 8260B	
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.27	09/12/2004	mmk	1033	SW 8260B	
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/12/2004	mmk	1033	SW 8260B	
Trichloroethylene	<0.99		ug/kg dw	0.99	2.96	09/12/2004	mmk	1033	SW 8260B	
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/12/2004	mmk	1033	SW 8260B	
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/12/2004	mmk	1033	SW 8260B	
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/12/2004	mmk	1033	SW 8260B	
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk	1033	SW 8260B	
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/12/2004	mmk	1033	SW 8260B	
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk	1033	SW 8260B	
4-Bromofluorobenzene (surr)	101		%			09/12/2004	mmk	1033	SW 8260B	
Dibromofluoromethane (surr)	100		%			09/12/2004	mmk	1033	SW 8260B	
Toluene-d8 (surr)	96		%			09/12/2004	mmk	1033	SW 8260B	

SAMPLE NO. 822364	SAMPLE DESCRIPTION SB-33 8'					DATE-TIME TAKEN 09/07/2004 11:35				
5035 VOC Preservation	Complete					09/07/2004	sml	10	SW 846 - 5035	
Cyanide, mdl	<0.12		mg/kg dw	0.12	0.53	09/09/2004	tlz	868	SW 9012	
Solids, Total	94.35		%	0.01	0.01	09/09/2004	sas	2751	SM 2540 G	

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822364	SB-33 8'					09/07/2004 11:35				
VOA 8260 NON-AQUEOUS LRL										
Acetone	15.3		ug/kg dw	8.5	25	09/12/2004	mmk	1033	SW	8260B
Benzene	<0.58		ug/kg dw	0.58	1.75	09/12/2004	mmk	1033	SW	8260B
Bromobenzene	<0.74		ug/kg dw	0.74	2.23	09/12/2004	mmk	1033	SW	8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.02	09/12/2004	mmk	1033	SW	8260B
Bromodichloromethane	<2.38		ug/kg dw	2.38	7.15	09/12/2004	mmk	1033	SW	8260B
Bromoform	<3.55		ug/kg dw	3.55	10.6	09/12/2004	mmk	1033	SW	8260B
Bromomethane	<5.19		ug/kg dw	5.19	15.4	09/12/2004	mmk	1033	SW	8260B
Methyl ethyl ketone (MEK)	<0.90		ug/kg dw	0.90	2.12	09/12/2004	mmk	1033	SW	8260B
n-Butylbenzene	<5.3		ug/kg dw	0.50	5.3	09/12/2004	mmk	1033	SW	8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.54	5.3	09/12/2004	mmk	1033	SW	8260B
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/12/2004	mmk	1033	SW	8260B
Carbon tetrachloride	<6.4		ug/kg dw	6.4	19.1	09/12/2004	mmk	1033	SW	8260B
Chlorobenzene	<0.450		ug/kg dw	0.450	1.351	09/12/2004	mmk	1033	SW	8260B
Chlorodibromomethane	<1.48		ug/kg dw	1.48	4.45	09/12/2004	mmk	1033	SW	8260B
Chloroethane	<0.74		ug/kg dw	0.74	2.23	09/12/2004	mmk	1033	SW	8260B
Chloroform	<0.90		ug/kg dw	0.90	2.70	09/12/2004	mmk	1033	SW	8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk	1033	SW	8260B
2-Chlorotoluene	<0.69		ug/kg dw	0.69	2.07	09/12/2004	mmk	1033	SW	8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.75	09/12/2004	mmk	1033	SW	8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/12/2004	mmk	1033	SW	8260B
1,2-Dibromoethane (EDB)	<3.13		ug/kg dw	3.13	9.38	09/12/2004	mmk	1033	SW	8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.38	09/12/2004	mmk	1033	SW	8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk	1033	SW	8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk	1033	SW	8260B
1,4-Dichlorobenzene	<0.69		ug/kg dw	0.69	2.07	09/12/2004	mmk	1033	SW	8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822364	SB-33 8'					09/07/2004 11:35				
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.02	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.85		ug/kg dw	0.85	2.5	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.355		ug/kg dw	0.355	1.06	09/12/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.02	09/12/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.38	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.37	09/12/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.90		ug/kg dw	0.90	2.70	09/12/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.14	09/12/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.90		ug/kg dw	0.90	2.70	09/12/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.85		ug/kg dw	0.85	2.54	09/12/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.38	09/12/2004	mmk		1033	SW 8260B
Ethylbenzene	<0.58	B	ug/kg dw	0.58	1.75	09/12/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.07		ug/kg dw	3.07	9.22	09/12/2004	mmk		1033	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.12	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.14	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<53		ug/kg dw	7.4	53	09/12/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.74		ug/kg dw	0.74	2.12	09/12/2004	mmk		1033	SW 8260B
MTBE	<5.03		ug/kg dw	5.03	15.1	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.3		ug/kg dw	0.85	5.3	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.58	5.3	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.21	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.91		ug/kg dw	1.91	5.72	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B
Tetrachloroethene	<0.69		ug/kg dw	0.69	2.07	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822364	SAMPLE DESCRIPTION SB-33 8'								DATE-TIME TAKEN 09/07/2004 11:35	
Toluene	1.16		ug/kg dw	0.74	2.23	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	<1.11		ug/kg dw	1.11	3.34	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	<1.0		ug/kg dw	1.0	3.02	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	0.63		ug/kg dw	0.47	1.42	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.95		ug/kg dw	0.95	2.9	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.38	09/12/2004	mmk		1033	SW 8260B
Arylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	97		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	99		%			09/12/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	94		%			09/12/2004	mmk		1033	SW 8260B

SAMPLE NO. 822365	SAMPLE DESCRIPTION SB-7 2'								DATE-TIME TAKEN 09/07/2004 11:55	
5035 VOC Preservation	Complete					09/07/2004	sml		10	SW 846 - 5035
Cyanide, mdl	0.42		mg/kg dw	0.12	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	95.38		%	0.01	0.01	09/09/2004	sas		2751	SM 2540 G

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822365	SB-7 2'					09/07/2004 11:55				
Prep, BNA-Nonaqueous (MDL)	Complete					09/09/2004	acm	107		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	31.9		ug/kg dw	8.4	25	09/12/2004	mmk		1033	SW 8260B
Benzene	3.04		ug/kg dw	0.58	1.73	09/12/2004	mmk		1033	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.20	09/12/2004	mmk		1033	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	2.99	09/12/2004	mmk		1033	SW 8260B
Bromodichloromethane	<2.36		ug/kg dw	2.36	7.08	09/12/2004	mmk		1033	SW 8260B
Bromoform	<3.51		ug/kg dw	3.51	10.5	09/12/2004	mmk		1033	SW 8260B
Bromomethane	<5.14		ug/kg dw	5.14	15.2	09/12/2004	mmk		1033	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.10	09/12/2004	mmk		1033	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk		1033	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.52	5.2	09/12/2004	mmk		1033	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk		1033	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.9	09/12/2004	mmk		1033	SW 8260B
Chlorobenzene	<0.446		ug/kg dw	0.446	1.337	09/12/2004	mmk		1033	SW 8260B
Chlorodibromomethane	<1.47		ug/kg dw	1.47	4.40	09/12/2004	mmk		1033	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.20	09/12/2004	mmk		1033	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.67	09/12/2004	mmk		1033	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.04	09/12/2004	mmk		1033	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.73	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk		1033	SW 8260B
1,2-Dibromoethane (EDB)	<3.09		ug/kg dw	3.09	9.28	09/12/2004	mmk		1033	SW 8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.36	09/12/2004	mmk		1033	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822365	SB-7 2'					09/07/2004 11:55				
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.04	09/12/2004	mmk		1033	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	2.99	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.351		ug/kg dw	0.351	1.05	09/12/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	2.99	09/12/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.36	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/12/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.67	09/12/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/12/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.67	09/12/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.52	09/12/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.36	09/12/2004	mmk		1033	SW 8260B
Ethylbenzene	0.66	B	ug/kg dw	0.58	1.73	09/12/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.04		ug/kg dw	3.04	9.12	09/12/2004	mmk		1033	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.10	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/12/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.10	09/12/2004	mmk		1033	SW 8260B
MTBE	<4.98		ug/kg dw	4.98	14.9	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.84	5.2	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.58	5.2	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.20	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.89		ug/kg dw	1.89	5.66	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822365	SB-7 2'					09/07/2004 11:55				
Tetrachloroethene	<0.68		ug/kg dw	0.68	2.04	09/12/2004	mmk		1033	SW 8260B
Toluene	2.21		ug/kg dw	0.73	2.20	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.34	5.2	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	<1.10		ug/kg dw	1.10	3.30	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	17.2		ug/kg dw	1.0	2.99	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.36	09/12/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	97		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	101		%			09/12/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	93		%			09/12/2004	mmk		1033	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	0.15		mg/kg dw	0.065	0.196	09/13/2004	ake	107	173	SW 8270C
Acenaphthylene	1.28		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
Anthracene	1.0		mg/kg dw	0.041	0.122	09/13/2004	ake	107	173	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.305	09/13/2004	ake	107	173	SW 8270C
Benzo(a)anthracene	5.24		mg/kg dw	0.19	0.545	09/15/2004	ake	107	175	SW 8270C
Benzo(b)fluoranthene	3.93		mg/kg dw	0.039	0.115	09/13/2004	ake	107	173	SW 8270C
Benzo(k)fluoranthene	3.72		mg/kg dw	0.051	0.153	09/13/2004	ake	107	173	SW 8270C
Benzo(a)pyrene	4.8		mg/kg dw	0.25	0.763	09/15/2004	ake	107	175	SW 8270C
Benzo(ghi)perylene	2.56		mg/kg dw	0.041	0.122	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822365	SB-7 2'					09/07/2004 11:55				
Benzyl alcohol	<0.084		mg/kg dw	0.084	0.253	09/13/2004	ake	107	173	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.134	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.243	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.231	09/13/2004	ake	107	173	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.034		mg/kg dw	0.034	0.10	09/13/2004	ake	107	173	SW 8270C
Bis(2chloroisopropyl)ether	<0.089		mg/kg dw	0.089	0.267	09/13/2004	ake	107	173	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.150	09/13/2004	ake	107	173	SW 8270C
Carbazole	0.05		mg/kg dw	0.041	0.122	09/13/2004	ake	107	173	SW 8270C
4-Chloroaniline	<0.108		mg/kg dw	0.108	0.324	09/13/2004	ake	107	173	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.171	09/13/2004	ake	107	173	SW 8270C
Chrysene	4.7		mg/kg dw	0.16	0.47	09/15/2004	ake	107	175	SW 8270C
Dibenzo(a,h)anthracene	0.27		mg/kg dw	0.080	0.240	09/13/2004	ake	107	173	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.147	09/13/2004	ake	107	173	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.134	09/13/2004	ake	107	173	SW 8270C
1,2-Dichlorobenzene	<0.107		mg/kg dw	0.107	0.321	09/13/2004	ake	107	173	SW 8270C
1,3-Dichlorobenzene	<0.095		mg/kg dw	0.095	0.286	09/13/2004	ake	107	173	SW 8270C
1,4-Dichlorobenzene	<0.088		mg/kg dw	0.088	0.264	09/13/2004	ake	107	173	SW 8270C
3,3-Dichlorobenzidine	<0.111		mg/kg dw	0.111	0.333	09/13/2004	ake	107	173	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.147	09/13/2004	ake	107	173	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.147	09/13/2004	ake	107	173	SW 8270C
2,6-Dinitrotoluene	<0.068		mg/kg dw	0.068	0.205	09/13/2004	ake	107	173	SW 8270C
Di-n-octylphthalate	<0.062		mg/kg dw	0.062	0.19	09/13/2004	ake	107	173	SW 8270C
Fluoranthene	11.8		mg/kg dw	0.19	0.561	09/15/2004	ake	107	175	SW 8270C
Fluorene	0.21		mg/kg dw	0.055	0.165	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822365	SB-7 2'					09/07/2004 11:55				
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.090	09/13/2004	ake	107	173	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.180	09/13/2004	ake	107	173	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.209	09/13/2004	ake	107	173	SW 8270C
Hexachloroethane	<0.085		mg/kg dw	0.085	0.256	09/13/2004	ake	107	173	SW 8270C
Indeno(1,2,3-cd)pyrene	2.99		mg/kg dw	0.033	0.096	09/13/2004	ake	107	173	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
2-Methylnaphthalene	<0.066		mg/kg dw	0.066	0.199	09/13/2004	ake	107	173	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.228	09/13/2004	ake	107	173	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.215	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene	<0.079		mg/kg dw	0.079	0.237	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodimethylamine	<0.115		mg/kg dw	0.115	0.346	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodiphenylamine	<0.036		mg/kg dw	0.036	0.106	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodi-n-propylamine	<0.086		mg/kg dw	0.086	0.259	09/13/2004	ake	107	173	SW 8270C
Phenanthrene	2.22		mg/kg dw	0.040	0.118	09/13/2004	ake	107	173	SW 8270C
Pyrene	8.49		mg/kg dw	0.26	0.78	09/15/2004	ake	107	175	SW 8270C
Pyridine	<0.116		mg/kg dw	0.116	0.349	09/13/2004	ake	107	173	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.228	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene-d5 (surr)	67		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorobiphenyl (surr)	77		%			09/13/2004	ake	107	173	SW 8270C
Terphenyl-d14 (surr)	101		%			09/13/2004	ake	107	173	SW 8270C
Benzoic Acid	<0.35		mg/kg dw	0.35	1.0	09/13/2004	ake	107	173	SW 8270C
4-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.224	09/13/2004	ake	107	173	SW 8270C
2-chlorophenol	<0.089		mg/kg dw	0.089	0.267	09/13/2004	ake	107	173	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.243	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822365	SAMPLE DESCRIPTION SB-7 2'					DATE-TIME TAKEN 09/07/2004 11:55				
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/13/2004	ake	107	173	SW 8270C
Cresols, Total	<0.164		mg/kg dw	0.164	0.492	09/13/2004	ake	107	173	SW 8270C
2,4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.231	09/13/2004	ake	107	173	SW 8270C
2,4-Dimethylphenol	<0.065		mg/kg dw	0.065	0.196	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.087	09/13/2004	ake	107	173	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.109		mg/kg dw	0.109	0.327	09/13/2004	ake	107	173	SW 8270C
2-Nitrophenol	<0.116		mg/kg dw	0.116	0.349	09/13/2004	ake	107	173	SW 8270C
4-Nitrophenol	<0.068		mg/kg dw	0.068	0.205	09/13/2004	ake	107	173	SW 8270C
Pentachlorophenol	<0.080	L	mg/kg dw	0.080	0.240	09/13/2004	ake	107	173	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.240	09/13/2004	ake	107	173	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.215	09/13/2004	ake	107	173	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.168	09/13/2004	ake	107	173	SW 8270C
Phenol-d6 (surr)	75		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorophenol (surr)	62		%			09/13/2004	ake	107	173	SW 8270C
Tribromophenol (surr)	88		%			09/13/2004	ake	107	173	SW 8270C

SAMPLE NO. 822366	SAMPLE DESCRIPTION SB-7 8'					DATE-TIME TAKEN 09/07/2004 12:20				
5035 VOC Preservation	Complete					09/07/2004	sml		10	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/09/2004	tlz		868	SW 9012
Solids, Total	96.72		%	0.01	0.01	09/09/2004	sas		2751	SM 2540 G

L - LCS recovery is outside of control limits.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822366	SAMPLE DESCRIPTION SB-7 8'								DATE-TIME TAKEN 09/07/2004 12:20	
Prep, BNA-Nonaqueous (MDL) VOA 8260 NON-AQUEOUS LRL	Complete					09/09/2004	acm	107		SW 3550
Acetone	32.6		ug/kg dw	8.3	25	09/12/2004	mmk	1033		SW 8260B
Benzene	0.63		ug/kg dw	0.57	1.71	09/12/2004	mmk	1033		SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/12/2004	mmk	1033		SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.95	09/12/2004	mmk	1033		SW 8260B
Bromodichloromethane	<2.33		ug/kg dw	2.33	6.98	09/12/2004	mmk	1033		SW 8260B
Bromoform	<3.46		ug/kg dw	3.46	10.3	09/12/2004	mmk	1033		SW 8260B
Bromomethane	<5.07		ug/kg dw	5.07	15.0	09/12/2004	mmk	1033		SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.07	09/12/2004	mmk	1033		SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/12/2004	mmk	1033		SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/12/2004	mmk	1033		SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/12/2004	mmk	1033		SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/12/2004	mmk	1033		SW 8260B
Chlorobenzene	<0.439		ug/kg dw	0.439	1.318	09/12/2004	mmk	1033		SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.34	09/12/2004	mmk	1033		SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/12/2004	mmk	1033		SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.64	09/12/2004	mmk	1033		SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk	1033		SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/12/2004	mmk	1033		SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/12/2004	mmk	1033		SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/12/2004	mmk	1033		SW 8260B
1,2-Dibromoethane (EDB)	<3.05		ug/kg dw	3.05	9.15	09/12/2004	mmk	1033		SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.33	09/12/2004	mmk	1033		SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033		SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk	1033		SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822366	SAMPLE DESCRIPTION SB-7								DATE-TIME TAKEN 09/07/2004 12:20	
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/12/2004	mmk		1033	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.95	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B
1,1-Dichloroethene	<0.346		ug/kg dw	0.346	1.03	09/12/2004	mmk		1033	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.95	09/12/2004	mmk		1033	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.33	09/12/2004	mmk		1033	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/12/2004	mmk		1033	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.64	09/12/2004	mmk		1033	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.64	09/12/2004	mmk		1033	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/12/2004	mmk		1033	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.33	09/12/2004	mmk		1033	SW 8260B
Ethylbenzene	0.64	B	ug/kg dw	0.57	1.71	09/12/2004	mmk		1033	SW 8260B
Hexachlorobutadiene	<3.00		ug/kg dw	3.00	9.00	09/12/2004	mmk		1033	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.07	09/12/2004	mmk		1033	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/12/2004	mmk		1033	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/12/2004	mmk		1033	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/12/2004	mmk		1033	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.07	09/12/2004	mmk		1033	SW 8260B
MTBE	<4.91		ug/kg dw	4.91	14.7	09/12/2004	mmk		1033	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/12/2004	mmk		1033	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/12/2004	mmk		1033	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/12/2004	mmk		1033	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.58	09/12/2004	mmk		1033	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/12/2004	mmk		1033	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822366	SB-7 8'					09/07/2004 12:20				
Tetrachloroethene	<0.67		ug/kg dw	0.67	2.02	09/12/2004	mmk		1033	SW 8260B
Toluene	1.60		ug/kg dw	0.72	2.17	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/12/2004	mmk		1033	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.26	09/12/2004	mmk		1033	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/12/2004	mmk		1033	SW 8260B
Trichloroethylene	7.24		ug/kg dw	0.98	2.95	09/12/2004	mmk		1033	SW 8260B
Trichlorofluoromethane	0.60		ug/kg dw	0.45	1.39	09/12/2004	mmk		1033	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/12/2004	mmk		1033	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.4	5.2	09/12/2004	mmk		1033	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/12/2004	mmk		1033	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.33	09/12/2004	mmk		1033	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/12/2004	mmk		1033	SW 8260B
4-Bromofluorobenzene (surr)	100		%			09/12/2004	mmk		1033	SW 8260B
Dibromofluoromethane (surr)	100		%			09/12/2004	mmk		1033	SW 8260B
Toluene-d8 (surr)	97		%			09/12/2004	mmk		1033	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.065		mg/kg dw	0.065	0.195	09/13/2004	ake	107	173	SW 8270C
Acenaphthylene	<0.061		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.121	09/13/2004	ake	107	173	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.304	09/13/2004	ake	107	173	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.109	09/13/2004	ake	107	173	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.115	09/13/2004	ake	107	173	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.152	09/13/2004	ake	107	173	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.152	09/13/2004	ake	107	173	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.121	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822366	SB-7 8'					09/07/2004 12:20				
Benzyl alcohol	<0.084		mg/kg dw	0.084	0.251	09/13/2004	ake	107	173	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.133	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.242	09/13/2004	ake	107	173	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.230	09/13/2004	ake	107	173	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.099	09/13/2004	ake	107	173	SW 8270C
Bis(2chloroisopropyl)ether	<0.089		mg/kg dw	0.089	0.267	09/13/2004	ake	107	173	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.149	09/13/2004	ake	107	173	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.121	09/13/2004	ake	107	173	SW 8270C
4-Chloroaniline	<0.108		mg/kg dw	0.108	0.323	09/13/2004	ake	107	173	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.171	09/13/2004	ake	107	173	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.093	09/13/2004	ake	107	173	SW 8270C
Dibenzo(a,h)anthracene	<0.080		mg/kg dw	0.080	0.239	09/13/2004	ake	107	173	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.146	09/13/2004	ake	107	173	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.133	09/13/2004	ake	107	173	SW 8270C
1,2-Dichlorobenzene	<0.106		mg/kg dw	0.106	0.319	09/13/2004	ake	107	173	SW 8270C
1,3-Dichlorobenzene	<0.095		mg/kg dw	0.095	0.285	09/13/2004	ake	107	173	SW 8270C
1,4-Dichlorobenzene	<0.088		mg/kg dw	0.088	0.264	09/13/2004	ake	107	173	SW 8270C
3,3-Dichlorobenzidine	<0.111		mg/kg dw	0.111	0.332	09/13/2004	ake	107	173	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.146	09/13/2004	ake	107	173	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.130	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.146	09/13/2004	ake	107	173	SW 8270C
2,6-Dinitrotoluene	<0.068		mg/kg dw	0.068	0.205	09/13/2004	ake	107	173	SW 8270C
Di-n-octylphthalate	<0.062		mg/kg dw	0.062	0.19	09/13/2004	ake	107	173	SW 8270C
Fluoranthene	0.05		mg/kg dw	0.037	0.112	09/13/2004	ake	107	173	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.164	09/13/2004	ake	107	173	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822366	SB-7 8'					09/07/2004 12:20				
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.090	09/13/2004	ake	107	173	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.180	09/13/2004	ake	107	173	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.208	09/13/2004	ake	107	173	SW 8270C
Hexachloroethane	<0.085		mg/kg dw	0.085	0.254	09/13/2004	ake	107	173	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.096	09/13/2004	ake	107	173	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
2-Methylnaphthalene	<0.066		mg/kg dw	0.066	0.199	09/13/2004	ake	107	173	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.226	09/13/2004	ake	107	173	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/13/2004	ake	107	173	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.183	09/13/2004	ake	107	173	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.214	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene	<0.079		mg/kg dw	0.079	0.236	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodimethylamine	<0.115		mg/kg dw	0.115	0.344	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.105	09/13/2004	ake	107	173	SW 8270C
N-Nitrosodi-n-propylamine	<0.086		mg/kg dw	0.086	0.257	09/13/2004	ake	107	173	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.118	09/13/2004	ake	107	173	SW 8270C
Pyrene	<0.052		mg/kg dw	0.052	0.16	09/13/2004	ake	107	173	SW 8270C
Pyridine	<0.116		mg/kg dw	0.116	0.347	09/13/2004	ake	107	173	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.226	09/13/2004	ake	107	173	SW 8270C
Nitrobenzene-d5 (surr)	61		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorobiphenyl (surr)	54	OOC	%			09/13/2004	ake	107	173	SW 8270C
Terphenyl-d14 (surr)	91		%			09/13/2004	ake	107	173	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/13/2004	ake	107	173	SW 8270C
4-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.223	09/13/2004	ake	107	173	SW 8270C
2-chlorophenol	<0.089		mg/kg dw	0.089	0.267	09/13/2004	ake	107	173	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.242	09/13/2004	ake	107	173	SW 8270C

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822366	SAMPLE DESCRIPTION SB-7 8'				DATE-TIME TAKEN 09/07/2004 12:20					
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/13/2004	ake	107	173	SW 8270C
Cresols, Total	<0.163		mg/kg dw	0.163	0.490	09/13/2004	ake	107	173	SW 8270C
2,4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.230	09/13/2004	ake	107	173	SW 8270C
2,4-Dimethylphenol	<0.065		mg/kg dw	0.065	0.195	09/13/2004	ake	107	173	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.087	09/13/2004	ake	107	173	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.109		mg/kg dw	0.109	0.326	09/13/2004	ake	107	173	SW 8270C
2-Nitrophenol	<0.116		mg/kg dw	0.116	0.347	09/13/2004	ake	107	173	SW 8270C
4-Nitrophenol	<0.068		mg/kg dw	0.068	0.205	09/13/2004	ake	107	173	SW 8270C
Pentachlorophenol	<0.080	L	mg/kg dw	0.080	0.239	09/13/2004	ake	107	173	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.239	09/13/2004	ake	107	173	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.214	09/13/2004	ake	107	173	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.167	09/13/2004	ake	107	173	SW 8270C
Phenol-d6 (surr)	66		%			09/13/2004	ake	107	173	SW 8270C
2-Fluorophenol (surr)	58		%			09/13/2004	ake	107	173	SW 8270C
Tribromophenol (surr)	77		%			09/13/2004	ake	107	173	SW 8270C

SAMPLE NO. 822367	SAMPLE DESCRIPTION SB-21 2'				DATE-TIME TAKEN 09/07/2004 12:30					
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	170		mg/kg	10	10	09/26/2004	ljm	3181	5431	IA-0A2/S-8015

L - LCS recovery is outside of control limits.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822367	SAMPLE DESCRIPTION SB-21 2'								DATE-TIME TAKEN 09/07/2004 12:30	
Diesel	<10		mg/kg	6.7	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
Motor Oil	170		mg/kg	7.1	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
N-Octacosane (Surr.)	139	p	%	1.0	1.0	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	90.4		%	1	1	09/13/2004	mmk		5806	IA-OA1

SAMPLE NO. 822368 **SAMPLE DESCRIPTION** SB-21 10' **DATE-TIME TAKEN** 09/07/2004 12:40

Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	<10		mg/kg	10	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
Motor Oil	<10		mg/kg	7.1	10	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
N-Octacosane (Surr.)	90		%	1.0	1.0	09/26/2004	ljm	3181	5431	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										

p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822368	SAMPLE DESCRIPTION SB-21 10'					DATE-TIME TAKEN 09/07/2004 12:40				
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	munk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	munk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	munk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	munk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	92.0		%	1	1	09/13/2004	munk		5806	IA-OA1
SAMPLE NO. 822369	SAMPLE DESCRIPTION SB-22 2'					DATE-TIME TAKEN 09/07/2004 12:50				
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	18.8		mg/kg	10	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Motor Oil	18.8		mg/kg	7.1	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
N-Octacosane (Surr.)	84		%	1.0	1.0	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	munk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	munk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	munk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	munk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	91.6		%	1	1	09/13/2004	munk		5806	IA-OA1

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
822370	SB-22 4'								09/07/2004 13:08	
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	<10		mg/kg	10	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Motor Oil	<10		mg/kg	7.1	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
N-Octacosane (Surr.)	87		%	1.0	1.0	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	91.3		%	1	1	09/13/2004	mmk		5806	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
822371	SB-24 2'								09/07/2004 13:25	
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	25.1		mg/kg	10	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822371	SAMPLE DESCRIPTION SB-24 2'								DATE-TIME TAKEN 09/07/2004 13:25	
Motor Oil	25.1		mg/kg	7.1	10	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
N-Octacosane (Surr.)	69		%	1.0	1.0	09/27/2004	ljm	3181	5432	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	91.2		%	1	1	09/13/2004	mmk		5806	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
822372	SB-24 10'	09/07/2004 14:00
Extraction Prep, soil	COMPLETE	09/10/2004 acm 3181 IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI		
Total Extractable Hydrocarbo	14.5	mg/kg 10 10 09/28/2004 ljm 3181 5432 IA-OA2/S-8015
Diesel	<10	mg/kg 6.7 10 09/28/2004 ljm 3181 5432 IA-OA2/S-8015
Gasoline	<10	mg/kg 5.7 10 09/28/2004 ljm 3181 5432 IA-OA2/S-8015
Motor Oil	14.5	mg/kg 7.1 10 09/28/2004 ljm 3181 5432 IA-OA2/S-8015
N-Octacosane (Surr.)	91	% 1.0 1.0 09/28/2004 ljm 3181 5432 IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)		
Benzene	<0.25	mg/kg 0.197 0.25 09/13/2004 mmk 5806 IA-OA1
Toluene	<0.5	mg/kg 0.212 0.5 09/13/2004 mmk 5806 IA-OA1

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822372	SB-24 10'					09/07/2004 14:00				
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	90.3		%	1	1	09/13/2004	mmk		5806	IA-OA1
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822373	SB-23 2'					09/07/2004 14:55				
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	20.6		mg/kg	10	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
Motor Oil	20.6		mg/kg	7.1	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
N-Octacosane (Surr.)	65		%	1.0	1.0	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.5		mg/kg	0.4	0.5	09/13/2004	mmk		5806	IA-OA1
Toluene	<1		mg/kg	0.4	1	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<1		mg/kg	0.4	1	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<1		mg/kg	0.4	1	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	89.7		%	1	1	09/13/2004	mmk		5806	IA-OA1

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822374	SB-23 6'					09/07/2004 15:15				
Extraction Prep, soil	COMPLETE					09/10/2004	acm	3181		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	8,710		mg/kg	50	50	09/28/2004	ljm	3181	5433	IA-OA2/S-8015
Diesel	683		mg/kg	6.7	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
Gasoline	3,740		mg/kg	5.7	10	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
Motor Oil	4,290		mg/kg	40	50	09/28/2004	ljm	3181	5433	IA-OA2/S-8015
N-Octacosane (Surr.)	1,588	p	%	1.0	1.0	09/28/2004	ljm	3181	5432	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	2.2		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
ylenes, Total	7.7		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	137	OOC	%	1	1	09/13/2004	mmk		5806	IA-OA1

OOC - Surrogate recovery outside QC limits due to matrix interferences.

p - Surrogate recovery limits not applicable. Oil interference.

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ANALYTICAL TESTING CORPORATION

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, mdl		868	0.2475	mg/kg	0.245	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.244	99		09/09/2004
Cyanide, mdl		868	0.2475	mg/kg	0.247	100		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.126	102		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
Cyanide, mdl		868	0.12375	mg/kg	0.127	103		09/09/2004
VOLATILE COMPOUNDS								
Benzene		5648	100.0	ug/L	97.1	97		09/10/2004
Chlorobenzene		5648	100.0	ug/L	96.4	96		09/10/2004
1,1-Dichloroethene		5648	100.0	ug/L	98.7	99		09/10/2004
Ethylbenzene		5648	100.0	ug/L	98.5	98		09/10/2004
MTBE		5648	100.0	ug/L	89.8	90		09/10/2004
1,2,4-Trimethylbenzene		5648	100.0	ug/L	92.6	93		09/10/2004
Toluene		5648	100.0	ug/L	97.3	97		09/10/2004
1,3,5-Trimethylbenzene		5648	100.0	ug/L	93.2	93		09/10/2004
Trichloroethylene		5648	100.0	ug/L	99.5	100		09/10/2004
Xylenes, Total		5648	300.0	ug/L	291	97		09/10/2004
Dibromofluoromethane (surr)		5648	100.0000	%	98.9	99		09/10/2004
Toluene-d8 (surr)		5648	100.0000	%	101	101		09/10/2004
4-Bromofluorobenzene (surr)		5648	100.0000	%	99.7	100		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	100	ug/L	105	105		09/11/2004
Bromoform		1033	100	ug/L	91.2	91		09/11/2004
Chlorobenzene		1033	100	ug/L	104	104		09/11/2004
1,1-Dichloroethane		1033	100	ug/L	130	130		09/11/2004
1,1-Dichloroethene		1033	100	ug/L	131	131		09/11/2004
Ethylbenzene		1033	100	ug/L	108	108		09/11/2004
MTBE		1033	100	ug/L	118	118		09/11/2004
1,1,2,2-Tetrachloroethane		1033	100	ug/L	97.0	97		09/11/2004
Toluene		1033	100	ug/L	110	110		09/11/2004
Trichloroethylene		1033	100	ug/L	105	105		09/11/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
1,2,4-Trimethylbenzene		1033	100	ug/L	87.2	87		09/11/2004
1,3,5-Trimethylbenzene		1033	100	ug/L	97.9	98		09/11/2004
Vinyl Chloride		1033	100	ug/L	129	129		09/11/2004
Xylenes, Total		1033	300	ug/L	308	103		09/11/2004
4-Bromofluorobenzene (surr)		1033	100	%	92	92		09/11/2004
Dibromofluoromethane (surr)		1033	100	%	104	104		09/11/2004
Toluene-d8 (surr)		1033	100	%	104	104		09/11/2004
BNA Soil 8270 MDL								
Acenaphthene		173	50	ug/L	53	106		09/13/2004
Bis(2-ethylhexyl)phthalate		173	50	ug/L	52	104		09/13/2004
1,4-Dichlorobenzene		173	50	ug/L	52	104		09/13/2004
2,4-Dinitrotoluene		173	50	ug/L	54	108		09/13/2004
N-Nitrosodi-n-propylamine		173	50	ug/L	49	98		09/13/2004
Pyrene		173	50	ug/L	53	106		09/13/2004
1,2,4-Trichlorobenzene		173	50	ug/L	51	102		09/13/2004
Nitrobenzene-d5 (surr)		173	50.0	%	54.2	108		09/13/2004
2-Fluorobiphenyl (surr)		173	50.0	%	52.6	105		09/13/2004
Terphenyl-d14 (surr)		173	50.0	%	53.0	106		09/13/2004
4-Chloro-3-methylphenol		173	50	ug/L	51	102		09/13/2004
2-chlorophenol		173	50	ug/L	53	106		09/13/2004
4-Nitrophenol		173	50	ug/L	53	106		09/13/2004
Pentachlorophenol		173	50	ug/L	57	114		09/13/2004
Phenol		173	50	ug/L	53	106		09/13/2004
Phenol-d6 (surr)		173	100	%	53	53		09/13/2004
2-Fluorophenol (surr)		173	100	%	54	54		09/13/2004
Tribromophenol (surr)		173	100	%	54	54		09/13/2004
BNA Soil 8270 MDL								
Pyrene		175	50	ug/L	49	98		09/15/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5431	5,000	mg/kg	4,830	97		09/26/2004
Gasoline		5431	5,000	mg/kg	4,650	93		09/26/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Motor Oil		5431	5,000	mg/kg	5,010	100		09/26/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5432	2,500	mg/kg	2,450	98		09/27/2004
Gasoline		5432	2,500	mg/kg	2,210	88		09/27/2004
Motor Oil		5432	2,500	mg/kg	2,460	98		09/27/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Motor Oil		5433	5,000	mg/kg	5,190	104		09/28/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	100	mg/kg	107	107		09/13/2004
Toluene		5806	100	mg/kg	106	106		09/13/2004
Ethylbenzene		5806	100	mg/kg	112	112		09/13/2004
Xylenes, Total		5806	200	mg/kg	212	106		09/13/2004
4-Bromofluorobenzene (surr.)		5806	100.	%	105	105		09/13/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
VOLATILE COMPOUNDS								
Benzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromodichloromethane		5648	<0.46		ug/L	0.46	1.4	09/10/2004
Bromoform		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Bromomethane		5648	<0.62		ug/L	0.62	1.9	09/10/2004
Bromobenzene		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Carbon disulfide		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Bromochloromethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
Carbon tetrachloride		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dibromomethane		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Chlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
n-Butylbenzene		5648	0.14	B	ug/L	0.13	0.39	09/10/2004
sec-Butylbenzene		5648	<0.16		ug/L	0.16	0.48	09/10/2004
tert-Butylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloroethane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
Chloroform		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chloromethane		5648	<0.24		ug/L	0.24	0.72	09/10/2004
2-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
4-Chlorotoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Chlorodibromomethane		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dibromo-3-chloropropane		5648	<0.30		ug/L	0.30	0.90	09/10/2004
1,2-Dibromoethane (EDB)		5648	<0.42		ug/L	0.42	1.3	09/10/2004
1,2-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,4-Dichlorobenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Dichlorodifluoromethane		5648	<0.40		ug/L	0.4	1.2	09/10/2004
1,1-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2-Dichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Di-Isopropylether		5648	<0.32		ug/L	0.32	0.96	09/10/2004
1,3-Dichloropropane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
2,2-Dichloropropane		5648	<0.73		ug/L	0.73	2.2	09/10/2004
1,1-Dichloropropene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
trans-1,2-Dichloroethene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
cis-1,2-Dichloroethene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
1,2-Dichloropropane		5648	<0.12		ug/L	0.12	0.36	09/10/2004
cis-1,3-Dichloropropene		5648	<0.43		ug/L	0.43	1.2	09/10/2004
trans-1,3-Dichloropropene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
Hexachlorobutadiene		5648	0.68	B	ug/L	0.22	0.66	09/10/2004
Ethylbenzene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Isopropylbenzene		5648	<0.44		ug/L	0.44	1.3	09/10/2004
p-Isopropyltoluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Hexane		5648	<0.18		ug/L	0.18	0.54	09/10/2004
MTBE		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Methylene chloride		5648	<0.63		ug/L	0.63	1.9	09/10/2004
Napthalene		5648	<0.86		ug/L	0.86	2.6	09/10/2004
n-Propylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Styrene		5648	<0.41		ug/L	0.41	1.2	09/10/2004
1,1,1,2-Tetrachloroethane		5648	<0.40		ug/L	0.40	1.2	09/10/2004
1,1,2,2-Tetrachloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,2,3-Trichlorobenzene		5648	1.18	B	ug/L	0.40	1.2	09/10/2004
1,2,4-Trichlorobenzene		5648	0.52	B	ug/L	0.25	0.75	09/10/2004
Tetrachloroethene		5648	<0.37		ug/L	0.37	1.1	09/10/2004
1,2,3-Trichloropropane		5648	<0.49		ug/L	0.49	1.5	09/10/2004
1,2,4-Trimethylbenzene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
Toluene		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,3,5-Trimethylbenzene		5648	<0.14		ug/L	0.14	0.42	09/10/2004
1,1,1-Trichloroethane		5648	<0.25		ug/L	0.25	0.75	09/10/2004
1,1,2-Trichloroethane		5648	<0.10		ug/L	0.10	0.3	09/10/2004
Trichloroethylene		5648	<0.43		ug/L	0.43	1.3	09/10/2004
Trichlorofluoromethane		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Vinyl chloride		5648	<0.47		ug/L	0.47	1.4	09/10/2004
Xylenes, Total		5648	<0.38		ug/L	0.38	1.1	09/10/2004
Dibromofluoromethane (surr)		5648	105.0		%			09/10/2004
Toluene-d8 (surr)		5648	91.0		%			09/10/2004
4-Bromofluorobenzene (surr)		5648	92.0		%			09/10/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
VOA 8260 NON-AQUEOUS LRL								
Acetone		1033	<8.0		ug/kg	8.0	24	09/11/2004
Benzene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
Bromobenzene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Bromochloromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
Bromodichloromethane		1033	<2.25		ug/kg	2.25	6.75	09/11/2004
Bromoform		1033	<3.35		ug/kg	3.35	10.0	09/11/2004
Bromomethane		1033	<4.90		ug/kg	4.90	14.5	09/11/2004
Methyl ethyl ketone (MEK)		1033	<0.85		ug/kg	0.85	2.00	09/11/2004
n-Butylbenzene		1033	<5.0		ug/kg	0.47	5.0	09/11/2004
sec-Butylbenzene		1033	<5.0		ug/kg	1.45	5.0	09/11/2004
tert-Butylbenzene		1033	<5.0		ug/kg	0.5	5.0	09/11/2004
Carbon tetrachloride		1033	<6.0		ug/kg	6.0	18.0	09/11/2004
Chlorobenzene		1033	<0.425		ug/kg	0.425	1.275	09/11/2004
Chlorodibromomethane		1033	<1.40		ug/kg	1.40	4.20	09/11/2004
Chloroethane		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
Chloroform		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
Chloromethane		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
2-Chlorotoluene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
4-Chlorotoluene		1033	<0.55		ug/kg	0.55	1.65	09/11/2004
1,2-Dibromo-3-chloropropane		1033	<10		ug/kg	10	30	09/11/2004
1,2-Dibromoethane (EDB)		1033	<2.95		ug/kg	2.95	8.85	09/11/2004
Dibromomethane		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,3-Dichlorobenzene		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,4-Dichlorobenzene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
Dichlorodifluoromethane		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
1,1-Dichloroethane		1033	<0.80		ug/kg	0.80	2.4	09/11/2004
1,2-Dichloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
1,1-Dichloroethene		1033	<0.335		ug/kg	0.335	1.00	09/11/2004
cis-1,2-Dichloroethene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
trans-1,2-Dichloroethene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
1,2-Dichloropropane		1033	<0.43		ug/kg	0.43	1.29	09/11/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,3-Dichloropropane		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
2,2-Dichloropropane		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
1,1-Dichloropropene		1033	<0.85		ug/kg	0.85	2.55	09/11/2004
cis-1,3-Dichloropropene		1033	<0.80		ug/kg	0.80	2.40	09/11/2004
trans-1,3-Dichloropropene		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Ethylbenzene		1033	1.05	B	ug/kg	0.55	1.65	09/11/2004
Hexachlorobutadiene		1033	<2.90		ug/kg	2.90	8.70	09/11/2004
2-Hexanone		1033	<0.55		ug/kg	0.55	2.00	09/11/2004
Isopropylbenzene		1033	<0.36		ug/kg	0.36	1.08	09/11/2004
p-Isopropyltoluene		1033	<0.5		ug/kg	0.5	1.5	09/11/2004
Methylene chloride		1033	<50		ug/kg	7.0	50	09/11/2004
Methyl isobutyl ketone		1033	<0.70		ug/kg	0.70	2.00	09/11/2004
MTBE		1033	<4.75		ug/kg	4.75	14.2	09/11/2004
Naphthalene		1033	<5.0		ug/kg	0.80	5.0	09/11/2004
n-Propylbenzene		1033	<5.0		ug/kg	0.55	5.0	09/11/2004
Styrene		1033	<0.38		ug/kg	0.38	1.14	09/11/2004
1,1,1,2-Tetrachloroethane		1033	<1.80		ug/kg	1.80	5.40	09/11/2004
1,1,2,2-Tetrachloroethane		1033	<1.1		ug/kg	1.1	3.3	09/11/2004
Tetrachloroethene		1033	<0.65		ug/kg	0.65	1.95	09/11/2004
Toluene		1033	<0.70		ug/kg	0.70	2.10	09/11/2004
1,2,3-Trichlorobenzene		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
1,2,4-Trichlorobenzene		1033	<5.0		ug/kg	0.32	5.0	09/11/2004
1,1,1-Trichloroethane		1033	<1.05		ug/kg	1.05	3.15	09/11/2004
1,1,2-Trichloroethane		1033	<1.2		ug/kg	1.2	3.6	09/11/2004
Trichloroethylene		1033	<0.95		ug/kg	0.95	2.85	09/11/2004
Trichlorofluoromethane		1033	<0.44		ug/kg	0.44	1.34	09/11/2004
1,2,3-Trichloropropane		1033	<0.90		ug/kg	0.90	2.7	09/11/2004
1,2,4-Trimethylbenzene		1033	<5.0		ug/kg	1.4	5.0	09/11/2004
1,3,5-Trimethylbenzene		1033	<5.0		ug/kg	2.3	5.0	09/11/2004
Vinyl Chloride		1033	<0.75		ug/kg	0.75	2.25	09/11/2004
Xylenes, Total		1033	<5.0		ug/kg	1.6	5.0	09/11/2004
4-Bromofluorobenzene (surr)		1033	90		%			09/11/2004
Dibromofluoromethane (surr)		1033	101		%			09/11/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Toluene-d8 (surr)		1033	99		%			09/11/2004
BNA Soil 8270 MDL								
Acenaphthene	107	173	<0.063		mg/kg	0.063	0.189	09/13/2004
Acenaphthylene	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
Anthracene	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
Benzidine	107	173	<0.098		mg/kg	0.098	0.294	09/13/2004
Benzo(a)anthracene	107	173	<0.035		mg/kg	0.035	0.105	09/13/2004
Benzo(b)fluoranthene	107	173	<0.037		mg/kg	0.037	0.111	09/13/2004
Benzo(k)fluoranthene	107	173	<0.049		mg/kg	0.049	0.147	09/13/2004
Benzo(a)pyrene	107	173	<0.049		mg/kg	0.049	0.147	09/13/2004
Benzo(ghi)perylene	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
Benzyl alcohol	107	173	<0.081		mg/kg	0.081	0.243	09/13/2004
Benzyl butyl phthalate	107	173	<0.043		mg/kg	0.043	0.129	09/13/2004
Bis(2-chloroethyl)ether	107	173	<0.078		mg/kg	0.078	0.234	09/13/2004
Bis(2-chloroethoxy)methane	107	173	<0.074		mg/kg	0.074	0.222	09/13/2004
Bis(2-ethylhexyl)phthalate	107	173	<0.032		mg/kg	0.032	0.096	09/13/2004
Bis(2chloroisopropyl)ether	107	173	<0.086		mg/kg	0.086	0.258	09/13/2004
4-Bromophenyl phenyl ether	107	173	<0.048		mg/kg	0.048	0.144	09/13/2004
Carbazole	107	173	<0.039		mg/kg	0.039	0.117	09/13/2004
4-Chloroaniline	107	173	<0.104		mg/kg	0.104	0.312	09/13/2004
2-Chloronaphthalene	107	173	<0.070		mg/kg	0.070	0.21	09/13/2004
4-Chlorophenylphenyl ether	107	173	<0.055		mg/kg	0.055	0.165	09/13/2004
Chrysene	107	173	<0.030		mg/kg	0.030	0.090	09/13/2004
Dibenzo(a,h)anthracene	107	173	<0.077		mg/kg	0.077	0.231	09/13/2004
Dibenzofuran	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
Di-n-butylphthalate	107	173	<0.043		mg/kg	0.043	0.129	09/13/2004
1,2-Dichlorobenzene	107	173	<0.103		mg/kg	0.103	0.309	09/13/2004
1,3-Dichlorobenzene	107	173	<0.092		mg/kg	0.092	0.276	09/13/2004
1,4-Dichlorobenzene	107	173	<0.085		mg/kg	0.085	0.255	09/13/2004
3,3-Dichlorobenzidine	107	173	<0.107		mg/kg	0.107	0.321	09/13/2004
Diethyl phthalate	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
2,4-Dinitrotoluene	107	173	<0.047		mg/kg	0.047	0.141	09/13/2004
2,6-Dinitrotoluene	107	173	<0.066		mg/kg	0.066	0.198	09/13/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Di-n-octylphthalate	107	173	<0.060		mg/kg	0.060	0.18	09/13/2004
Fluorene	107	173	<0.053		mg/kg	0.053	0.159	09/13/2004
Hexachlorobenzene	107	173	<0.029		mg/kg	0.029	0.087	09/13/2004
Hexachlorocyclopentadiene	107	173	<0.058		mg/kg	0.058	0.174	09/13/2004
Hexachloro-1,3-butadiene	107	173	<0.067		mg/kg	0.067	0.201	09/13/2004
Hexachloroethane	107	173	<0.082		mg/kg	0.082	0.246	09/13/2004
Indeno(1,2,3-cd)pyrene	107	173	<0.031		mg/kg	0.031	0.093	09/13/2004
Isophorone	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
2-Methylnaphthalene	107	173	<0.064		mg/kg	0.064	0.192	09/13/2004
Naphthalene	107	173	<0.073		mg/kg	0.073	0.219	09/13/2004
2-Nitroaniline	107	173	<0.070		mg/kg	0.070	0.21	09/13/2004
3-Nitroaniline	107	173	<0.059		mg/kg	0.059	0.177	09/13/2004
4-Nitroaniline	107	173	<0.069		mg/kg	0.069	0.207	09/13/2004
Nitrobenzene	107	173	<0.076		mg/kg	0.076	0.228	09/13/2004
N-Nitrosodimethylamine	107	173	<0.111		mg/kg	0.111	0.333	09/13/2004
N-Nitrosodiphenylamine	107	173	<0.034		mg/kg	0.034	0.102	09/13/2004
N-Nitrosodi-n-propylamine	107	173	<0.083		mg/kg	0.083	0.249	09/13/2004
Phenanthrene	107	173	<0.038		mg/kg	0.038	0.114	09/13/2004
Pyrene	107	173	<0.050		mg/kg	0.050	0.15	09/13/2004
Pyridine	107	173	<0.112		mg/kg	0.112	0.336	09/13/2004
1,2,4-Trichlorobenzene	107	173	<0.073		mg/kg	0.073	0.219	09/13/2004
Nitrobenzene-d5 (surr)	107	173	63.0		%			09/13/2004
2-Fluorobiphenyl (surr)	107	173	64.0		%			09/13/2004
Terphenyl-d14 (surr)	107	173	104.0		%			09/13/2004
Benzoic Acid	107	173	<0.33		mg/kg	0.33	0.99	09/13/2004
4-Chloro-3-methylphenol	107	173	<0.072		mg/kg	0.072	0.216	09/13/2004
2-chlorophenol	107	173	<0.086		mg/kg	0.086	0.258	09/13/2004
2-Methylphenol	107	173	<0.078		mg/kg	0.078	0.234	09/13/2004
4-Methylphenol	107	173	<0.080		mg/kg	0.080	0.24	09/13/2004
Cresols, Total	107	173	<0.158		mg/kg	0.158	0.474	09/13/2004
2,4-Dichlorophenol	107	173	<0.074		mg/kg	0.074	0.222	09/13/2004
2,4-Dimethylphenol	107	173	<0.063		mg/kg	0.063	0.189	09/13/2004
2,4-Dinitrophenol	107	173	<0.028		mg/kg	0.028	0.084	09/13/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

TestAmerica Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
2-Methyl-4,6-dinitrophenol	107	173	<0.105		mg/kg	0.105	0.315	09/13/2004
2-Nitrophenol	107	173	<0.112		mg/kg	0.112	0.336	09/13/2004
4-Nitrophenol	107	173	<0.066		mg/kg	0.066	0.198	09/13/2004
Pentachlorophenol	107	173	<0.077	L	mg/kg	0.077	0.231	09/13/2004
Phenol	107	173	<0.077		mg/kg	0.077	0.231	09/13/2004
2,4,5-Trichlorophenol	107	173	<0.069		mg/kg	0.069	0.207	09/13/2004
2,4,6-Trichlorophenol	107	173	<0.054		mg/kg	0.054	0.162	09/13/2004
Phenol-d6 (surr)	107	173	64.0		%			09/13/2004
2-Fluorophenol (surr)	107	173	62.0		%			09/13/2004
Tribromophenol (surr)	107	173	86.0		%			09/13/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3181	5430	<10		mg/kg	10	10	09/25/2004
Diesel	3181	5430	<10		mg/kg	6.7	10	09/25/2004
Gasoline	3181	5430	<10		mg/kg	5.7	10	09/25/2004
Motor Oil	3181	5430	<10		mg/kg	7.1	10	09/25/2004
N-Octacosane (Surr.)	3181	5430	105		%	1.0	1.0	09/25/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	<0.25		mg/kg	0.197	0.25	09/13/2004
Toluene		5806	<0.5		mg/kg	0.212	0.5	09/13/2004
Ethylbenzene		5806	<0.5		mg/kg	0.224	0.5	09/13/2004
Xylenes, Total		5806	<0.5		mg/kg	0.216	0.5	09/13/2004
4-Bromofluorobenzene (surr.)		5806	92.5		%	1	1	09/13/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, mdl		868	0.1980	mg/kg	0.194	98		09/09/2004
VOLATILE COMPOUNDS								
Benzene		5648	20.0	ug/L	19.6	98		09/10/2004
Chlorobenzene		5648	20.0	ug/L	20.8	104		09/10/2004
1,1-Dichloroethene		5648	20.0	ug/L	20.2	101		09/10/2004
Ethylbenzene		5648	20.0	ug/L	19.8	99		09/10/2004
MTBE		5648	20.0	ug/L	18.7	94		09/10/2004
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1	116		09/10/2004
Toluene		5648	20.0	ug/L	22.3	112		09/10/2004
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6	118		09/10/2004
Trichloroethylene		5648	20.0	ug/L	17.4	87		09/10/2004
Xylenes, Total		5648	60.0	ug/L	64.2	107		09/10/2004
Dibromofluoromethane (surr)		5648	100	%	101.0	101		09/10/2004
Toluene-d8 (surr)		5648	100	%	105.0	105		09/10/2004
4-Bromofluorobenzene (surr)		5648	100	%	104.0	104		09/10/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1033	35.88	ug/kg	37.8	105		09/12/2004
Bromoform		1033	35.88	ug/kg	44.6	124		09/12/2004
Chlorobenzene		1033	35.88	ug/kg	37.4	104		09/12/2004
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	108		09/12/2004
1,1-Dichloroethene		1033	35.88	ug/kg	38.8	108		09/12/2004
Ethylbenzene		1033	35.88	ug/kg	40.2	112		09/12/2004
MTBE		1033	35.88	ug/kg	41.7	116		09/12/2004
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	98		09/12/2004
Toluene		1033	35.88	ug/kg	36.9	103		09/12/2004
Trichloroethylene		1033	35.88	ug/kg	39.9	111		09/12/2004
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	100		09/12/2004
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	117		09/12/2004
Vinyl Chloride		1033	35.88	ug/kg	31.6	88		09/12/2004
Xylenes, Total		1033	107.6	ug/kg	115	107		09/12/2004
4-Bromofluorobenzene (surr)		1033	100	%	101	101		09/12/2004
Dibromofluoromethane (surr)		1033	100	%	101	101		09/12/2004
Toluene-d8 (surr)		1033	100	%	97	97		09/12/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
BNA Soil 8270 MDL								
Acenaphthene	107	173	3.33	mg/kg	2.97	89		09/13/2004
1,4-Dichlorobenzene	107	173	3.33	mg/kg	2.04	61		09/13/2004
2,4-Dinitrotoluene	107	173	3.33	mg/kg	3.49	105		09/13/2004
N-Nitrosodi-n-propylamine	107	173	3.33	mg/kg	2.78	84		09/13/2004
Pyrene	107	173	3.33	mg/kg	3.09	93		09/13/2004
1,2,4-Trichlorobenzene	107	173	3.33	mg/kg	2.40	72		09/13/2004
Nitrobenzene-d5 (surr)	107	173	100	%	72.0	72		09/13/2004
2-Fluorobiphenyl (surr)	107	173	100	%	82.0	82		09/13/2004
Terphenyl-d14 (surr)	107	173	100	%	98.0	98		09/13/2004
4-Chloro-3-methylphenol	107	173	3.33	mg/kg	3.07	92		09/13/2004
2-chlorophenol	107	173	3.33	mg/kg	2.22	67		09/13/2004
4-Nitrophenol	107	173	3.33	mg/kg	3.23	97		09/13/2004
Pentachlorophenol	107	173	3.33	mg/kg	1.56	47	L	09/13/2004
Phenol	107	173	3.33	mg/kg	2.39	72		09/13/2004
Phenol-d6 (surr)	107	173	100	%	71.0	71		09/13/2004
2-Fluorophenol (surr)	107	173	100	%	60.0	60		09/13/2004
Tribromophenol (surr)	107	173	100	%	98.0	98		09/13/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3181	5430	66.7	mg/kg	18.0	27		09/25/2004
N-Octacosane (Surr.)	3181	5430	100	%	81	81		09/25/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	12.0	mg/kg	13.5	112		09/13/2004
Toluene		5806	12.0	mg/kg	13.3	111		09/13/2004
Ethylbenzene		5806	12.0	mg/kg	13.9	116		09/13/2004
Xylenes, Total		5806	24.1	mg/kg	26.5	110		09/13/2004
4-Bromofluorobenzene (surr.)		5806	100.	%	92.2	92		09/13/2004

L - LCS recovery is outside of control limits.

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job Number: 04.12344

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2751	96.23	96.56	%	0.3		09/09/2004	20
Solids, Total		2751	53.54	52.63	%	1.7		09/09/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Cindy Quast

Job Number: 04.12344

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Cyanide, mdl		868	14	2.2	11	mg/kg dw	106.3	4.0	11	mg/kg dw	16.8	109.7
VOLATILE COMPOUNDS												
Benzene		5648	2,580	2,200	400.0	ug/L	95.0	2,770	400.0	ug/L	142.5	7.1
Ethylbenzene		5648	1,780	1,430	400.0	ug/L	87.5	1,940	400.0	ug/L	127.5	8.6
Toluene		5648	11,900	10,800	400.0	ug/L	275.0	12,600	400.0	ug/L	450.0	5.7
BNA Soil 8270 MDL												
Acenaphthene	107	173	3.01	<0.064	3.37	mg/kg dw	89.6	2.95	3.41	mg/kg dw	86.7	2.1
1,4-Dichlorobenzene	107	173	2.37	<0.087	3.37	mg/kg dw	70.6	2.06	3.41	mg/kg dw	60.6	14.0
2,4-Dinitrotoluene	107	173	3.46	<0.049	3.37	mg/kg dw	102.8	3.46	3.41	mg/kg dw	101.5	0.0
N-Nitrosodi-n-propylamine	107	173	2.93	<0.085	3.37	mg/kg dw	87.1	2.54	3.41	mg/kg dw	74.5	14.3
Pyrene	107	173	3.26	0.05	3.37	mg/kg dw	95.4	3.27	3.41	mg/kg dw	94.5	0.3
1,2,4-Trichlorobenzene	107	173	2.65	<0.074	3.37	mg/kg dw	78.8	2.24	3.41	mg/kg dw	65.8	16.9
4-Chloro-3-methylphenol	107	173	3.11	<0.073	3.37	mg/kg dw	92.3	3.12	3.41	mg/kg dw	91.5	0.3
2-chlorophenol	107	173	2.68	<0.088	3.37	mg/kg dw	79.8	2.38	3.41	mg/kg dw	70.0	11.8
4-Nitrophenol	107	173	3.18	<0.067	3.37	mg/kg dw	94.5	3.28	3.41	mg/kg dw	96.4	3.2
Pentachlorophenol	107	173	1.04	<0.078	3.37	mg/kg dw	31.0	1.26	3.41	mg/kg dw	37.0	18.8
Phenol	107	173	2.77	<0.078	3.37	mg/kg dw	82.2	2.42	3.41	mg/kg dw	70.9	13.5
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3181	5430	NA	<10	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3181	5430	47.1	<10	65.4	mg/kg	72.0	46.9	65.7	mg/kg	71.4	0.4
Motor Oil	3181	5430	NA	<10	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5806	15.0	<0.25	12.1	mg/kg	124.0	15.7	11.7	mg/kg	134.2	4.6
Toluene		5806	15.0	<0.5	12.1	mg/kg	124.0	15.7	11.7	mg/kg	134.2	4.6
Ethylbenzene		5806	15.8	<0.5	12.1	mg/kg	130.6	16.4	11.7	mg/kg	140.2	3.7
Xylenes, Total		5806	29.9	<0.5	24.2	mg/kg	123.6	31.2	23.4	mg/kg	133.3	4.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job No: 04.12344

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD Max.	
	Batch	Batch								Amount	Result
Cyanide, mdl		868	0.1980	mg/kg	0.194		98.0		90 - 110		20
VOLATILE COMPOUNDS											
Benzene		5648	20.0	ug/L	19.6		98.0		81 - 124		27
Chlorobenzene		5648	20.0	ug/L	20.8		104.0		77 - 125		28
1,1-Dichloroethene		5648	20.0	ug/L	20.2		101.0		53 - 143		28
Ethylbenzene		5648	20.0	ug/L	19.8		99.0		65 - 140		24
MTBE		5648	20.0	ug/L	18.7		93.5		70 - 133		26
1,2,4-Trimethylbenzene		5648	20.0	ug/L	23.1		115.5		59 - 145		23
Toluene		5648	20.0	ug/L	22.3		111.5		73 - 127		21
1,3,5-Trimethylbenzene		5648	20.0	ug/L	23.6		118.0		63 - 141		24
Trichloroethylene		5648	20.0	ug/L	17.4		87.0		81 - 121		16
Xylenes, Total		5648	60.0	ug/L	64.2		107.0		75 - 130		20
Dibromofluoromethane (surr)		5648	100	%	101.0		101.0		85 - 118		50
Toluene-d8 (surr)		5648	100	%	105.0		105.0		76 - 120		50
4-Bromofluorobenzene (surr)		5648	100	%	104.0		104.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1033	35.88	ug/kg	37.8	39.8	105.4	110.9	68 - 158	5.2	20
Bromoform		1033	35.88	ug/kg	44.6	44.6	124.3	124.3	61 - 151	0.0	20
Chlorobenzene		1033	35.88	ug/kg	37.4	38.7	104.2	107.9	65 - 155	3.4	20
1,1-Dichloroethane		1033	35.88	ug/kg	38.6	38.2	107.6	106.5	64 - 154	1.0	20
1,1-Dichloroethene		1033	35.88	ug/kg	38.8	38.9	108.1	108.4	55 - 148	0.3	20
Ethylbenzene		1033	35.88	ug/kg	40.2	39.0	112.0	108.7	69 - 159	3.0	20
MTBE		1033	35.88	ug/kg	41.7	42.2	116.2	117.6	71 - 161	1.2	20
1,1,2,2-Tetrachloroethane		1033	35.88	ug/kg	35.3	33.1	98.4	92.3	63 - 153	6.4	20
Toluene		1033	35.88	ug/kg	36.9	38.5	102.8	107.3	68 - 158	4.2	20
Trichloroethylene		1033	35.88	ug/kg	39.9	40.1	111.2	111.8	61 - 151	0.5	20
1,2,4-Trimethylbenzene		1033	35.88	ug/kg	36.0	37.4	100.3	104.2	68 - 158	3.8	20
1,3,5-Trimethylbenzene		1033	35.88	ug/kg	42.0	40.5	117.1	112.9	66 - 156	3.6	20
Vinyl Chloride		1033	35.88	ug/kg	31.6	31.4	88.1	87.5	47 - 137	0.6	20
Xylenes, Total		1033	107.6	ug/kg	115	112	106.9	104.1	69 - 159	2.6	20
4-Bromofluorobenzene (surr)		1033	100	%	101	102	101.0	102.0	75 - 119	1.0	20
Dibromofluoromethane (surr)		1033	100	%	101	101	101.0	101.0	56 - 146	0.0	

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/29/2004

Job No: 04.12344

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCS Result	LCS % Rec	LCS % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Toluene-d8 (surr)		1033	100	%	97	96	97.0	96.0	52 - 142	1.0	
BNA Soil 8270 MDL											
Acenaphthene	107	173	3.33	mg/kg	2.97		89.2		69 - 108		35
1,4-Dichlorobenzene	107	173	3.33	mg/kg	2.04		61.3		49 - 96		35
2,4-Dinitrotoluene	107	173	3.33	mg/kg	3.49		104.8		68 - 129		35
N-Nitrosodi-n-propylamine	107	173	3.33	mg/kg	2.78		83.5		53 - 105		35
Pyrene	107	173	3.33	mg/kg	3.09		92.8		68 - 117		35
1,2,4-Trichlorobenzene	107	173	3.33	mg/kg	2.40		72.1		51 - 98		35
Nitrobenzene-d5 (surr)	107	173	100	%	72.0		72.0		56 - 113		
2-Fluorobiphenyl (surr)	107	173	100	%	82.0		82.0		67 - 107		
Terphenyl-d14 (surr)	107	173	100	%	98.0		98.0		66 - 115		
4-Chloro-3-methylphenol	107	173	3.33	mg/kg	3.07		92.2		67 - 115		35
2-chlorophenol	107	173	3.33	mg/kg	2.22		66.7		51 - 94		35
4-Nitrophenol	107	173	3.33	mg/kg	3.23		97.0		63 - 140		35
Pentachlorophenol	107	173	3.33	mg/kg	1.56		46.8		49 - 139		35
Phenol	107	173	3.33	mg/kg	2.39		71.8		50 - 98		35
Phenol-d6 (surr)	107	173	100	%	71.0		71.0		55 - 106		
2-Fluorophenol (surr)	107	173	100	%	60.0		60.0		52 - 96		
Tribromophenol (surr)	107	173	100	%	98.0		98.0		66 - 149		
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3181	5430	66.7	mg/kg	18.0		27.0		42 - 132		20
N-Octacosane (Surr.)	3181	5430	100	%	81		81.0		44 - 134		20
VOLATILES - BTEX (NONAQUEO)											
Benzene		5806	12.0	mg/kg	13.5		112.5		78 - 151		20
Toluene		5806	12.0	mg/kg	13.3		110.8		79 - 151		20
Ethylbenzene		5806	12.0	mg/kg	13.9		115.8		79 - 157		20
Xylenes, Total		5806	24.1	mg/kg	26.5		110.0		76 - 149		20
4-Bromofluorobenzene (surr)		5806	100.	%	92.2		92.2		78 - 124		

TestAmerica Job Number: 04.12344

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613 • 800-750-2401 • 319-277-2425 FAX

ANALYTICAL TESTING CORPORATION

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-8-04 Receiver's Initials na Time (Delivered): 9:00

Temperature Record

Cooler ID# (If Applicable)
Blue/White
9 °C / On Ice

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received within 6 hrs of sampling.
- Temperature not taken:

Log-In by:

JP MF EM

OT _____

*Refer to SOP CF01-01 for Temperature Criteria



ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job: 04.12478

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
822814	TB-8	09/09/2004	09/09/2004
822815	SB-3 2'	09/09/2004	09/09/2004
822816	SB-3 6'	09/09/2004	09/09/2004
822817	SB-2 2'	09/09/2004	09/09/2004
822818	SB-2 4'	09/09/2004	09/09/2004
822819	SB-1 2'	09/09/2004	09/09/2004
822820	SB-1 6'	09/09/2004	09/09/2004
822821	SB-5 2'	09/09/2004	09/09/2004
822822	SB-5 8'	09/09/2004	09/09/2004
822823	TB-7	09/08/2004	09/09/2004
822824	SB-48 2'	09/08/2004	09/09/2004
822825	SB-48 4'	09/08/2004	09/09/2004
822826	SB-47 2'	09/08/2004	09/09/2004
822827	SB-47 4'	09/08/2004	09/09/2004
822828	SB-46 2'	09/08/2004	09/09/2004
822829	SB-46 4'	09/08/2004	09/09/2004
822830	SB-54 2'	09/08/2004	09/09/2004
822831	SB-54 10'	09/08/2004	09/09/2004
822832	SB-6 2'	09/08/2004	09/09/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert
Organics Operations Manager

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job: 04.12478

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
822833	SB-6 4'	09/08/2004	09/09/2004
822834	SB-6 10'	09/08/2004	09/09/2004
822835	SB-4 2'	09/08/2004	09/09/2004
822836	SB-4 10'	09/08/2004	09/09/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO. 822814 SAMPLE DESCRIPTION TB-8

DATE-TIME TAKEN 09/09/2004 07:00

VOLATILE COMPOUNDS

Benzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/13/2004	dmd		5661	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/13/2004	dmd		5661	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/13/2004	dmd		5661	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	09/13/2004	dmd		5661	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chloroethane	0.13		ug/L	0.12	0.36	09/13/2004	dmd		5661	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chloromethane	0.31		ug/L	0.24	0.72	09/13/2004	dmd		5661	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30	B	ug/L	0.30	0.90	09/13/2004	dmd		5661	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/13/2004	dmd		5661	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822814	TB-8					09/09/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/13/2004	dmd		5661	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/13/2004	dmd		5661	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/13/2004	dmd		5661	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/13/2004	dmd		5661	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/13/2004	dmd		5661	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/13/2004	dmd		5661	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/13/2004	dmd		5661	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/13/2004	dmd		5661	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	09/13/2004	dmd		5661	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/13/2004	dmd		5661	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822814	SAMPLE DESCRIPTION TB-8					DATE-TIME TAKEN 09/09/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/13/2004	dmd		5661	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/13/2004	dmd		5661	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Toluene	0.45		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/13/2004	dmd		5661	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/13/2004	dmd		5661	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/13/2004	dmd		5661	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/13/2004	dmd		5661	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/13/2004	dmd		5661	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Dibromofluoromethane (surr)	102		%			09/13/2004	dmd		5661	SW 8260B
Toluene-d8 (surr)	100		%			09/13/2004	dmd		5661	SW 8260B
4-Bromofluorobenzene (surr)	86		%			09/13/2004	dmd		5661	SW 8260B
VOA Preservation pH	<2		units	NA		09/14/2004	muk		1046	SW 9041A

SAMPLE NO. 822815	SAMPLE DESCRIPTION SB-3 2'					DATE-TIME TAKEN 09/09/2004 08:10				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	3.6		mg/kg dw	0.12	0.54	09/15/2004	tlz		870	SW 9012
Solids, Total	91.87		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
Prep, BNA-Nonaqueous (MDL)	Complete					09/14/2004	acm	108		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	57.7		ug/kg dw	8.7	26	09/17/2004	mmk		1049	SW 8260B
Benzene	2.25		ug/kg dw	0.60	1.80	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.10	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.45		ug/kg dw	2.45	7.35	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.65		ug/kg dw	3.65	10.9	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.33		ug/kg dw	5.33	15.8	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.93		ug/kg dw	0.93	2.18	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.4		ug/kg dw	0.51	5.4	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.4		ug/kg dw	1.58	5.4	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.4		ug/kg dw	0.5	5.4	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.5		ug/kg dw	6.5	19.6	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.463		ug/kg dw	0.463	1.388	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.52		ug/kg dw	1.52	4.57	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.93		ug/kg dw	0.93	2.78	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.71		ug/kg dw	0.71	2.12	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.60		ug/kg dw	0.60	1.80	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	33	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.21		ug/kg dw	3.21	9.63	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.82		ug/kg dw	0.82	2.45	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
1,4-Dichlorobenzene	<0.71		ug/kg dw	0.71	2.12	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.10	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.87		ug/kg dw	0.87	2.6	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.365		ug/kg dw	0.365	1.09	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	6.76		ug/kg dw	1.0	3.10	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.82		ug/kg dw	0.82	2.45	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.47		ug/kg dw	0.47	1.40	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.93		ug/kg dw	0.93	2.78	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.39		ug/kg dw	0.39	1.18	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.93		ug/kg dw	0.93	2.78	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.87		ug/kg dw	0.87	2.61	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.45	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	1.10		ug/kg dw	0.60	1.80	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.16		ug/kg dw	3.16	9.47	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.60		ug/kg dw	0.60	2.18	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<54		ug/kg dw	7.6	54	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.76		ug/kg dw	0.76	2.18	09/17/2004	mmk		1049	SW 8260B
MTBE	<5.17		ug/kg dw	5.17	15.5	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.4		ug/kg dw	0.87	5.4	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.4		ug/kg dw	0.60	5.4	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.41		ug/kg dw	0.41	1.24	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.96		ug/kg dw	1.96	5.88	09/17/2004	mmk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
Tetrachloroethene	1.16	B	ug/kg dw	0.71	2.12	09/17/2004	mmk		1049	SW 8260B
Toluene	2.59		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.4		ug/kg dw	1.7	5.4	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.4		ug/kg dw	0.35	5.4	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	<1.14		ug/kg dw	1.14	3.43	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.9	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	72.7		ug/kg dw	1.0	3.10	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.48		ug/kg dw	0.48	1.46	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.98		ug/kg dw	0.98	2.9	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	8.4	LC	ug/kg dw	1.5	5.4	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.4		ug/kg dw	2.5	5.4	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.82		ug/kg dw	0.82	2.45	09/17/2004	mmk		1049	SW 8260B
Xylenes, Total	5.6		ug/kg dw	1.7	5.4	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	93		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	108		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	95		%			09/17/2004	mmk		1049	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<1.4		mg/kg dw	1.4	4.06	09/16/2004	ake	108	177	SW 8270C
Acenaphthylene	<1.3		mg/kg dw	1.3	3.81	09/16/2004	ake	108	177	SW 8270C
Anthracene	<0.86		mg/kg dw	0.86	2.51	09/16/2004	ake	108	177	SW 8270C
Benzidine	<2.1		mg/kg dw	2.1	6.32	09/16/2004	ake	108	177	SW 8270C
Benzo(a)anthracene	<0.77		mg/kg dw	0.77	2.25	09/16/2004	ake	108	177	SW 8270C
Benzo(b)fluoranthene	<0.77		mg/kg dw	0.77	2.38	09/16/2004	ake	108	177	SW 8270C
Benzo(k)fluoranthene	<1.0		mg/kg dw	1.0	3.16	09/16/2004	ake	108	177	SW 8270C
Benzo(a)pyrene	<1.0		mg/kg dw	1.0	3.16	09/16/2004	ake	108	177	SW 8270C
Benzo(ghi)perylene	<0.86		mg/kg dw	0.86	2.51	09/16/2004	ake	108	177	SW 8270C

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
Benzyl alcohol	<1.7		mg/kg dw	1.7	5.25	09/16/2004	ake	108	177	SW 8270C
Benzyl butyl phthalate	<0.95		mg/kg dw	0.95	2.78	09/16/2004	ake	108	177	SW 8270C
Bis(2-chloroethyl)ether	<1.6		mg/kg dw	1.6	5.03	09/16/2004	ake	108	177	SW 8270C
Bis(2-chloroethoxy)methane	<1.6		mg/kg dw	1.6	4.77	09/16/2004	ake	108	177	SW 8270C
Bis(2-ethylhexyl)phthalate	26.6		mg/kg dw	0.69	2.1	09/16/2004	ake	108	177	SW 8270C
Bis(2chloroisopropyl)ether	<1.9		mg/kg dw	1.9	5.55	09/16/2004	ake	108	177	SW 8270C
4-Bromophenyl phenyl ether	<1.0		mg/kg dw	1.0	3.09	09/16/2004	ake	108	177	SW 8270C
Carbazole	<0.86		mg/kg dw	0.86	2.51	09/16/2004	ake	108	177	SW 8270C
4-Chloroaniline	<2.23		mg/kg dw	2.23	6.71	09/16/2004	ake	108	177	SW 8270C
2-Chloronaphthalene	<1.5		mg/kg dw	1.5	4.4	09/16/2004	ake	108	177	SW 8270C
4-Chlorophenylphenyl ether	<1.2		mg/kg dw	1.2	3.55	09/16/2004	ake	108	177	SW 8270C
Chrysene	<0.64		mg/kg dw	0.64	2.0	09/16/2004	ake	108	177	SW 8270C
Dibenzo (a, h) anthracene	<1.6		mg/kg dw	1.6	4.99	09/16/2004	ake	108	177	SW 8270C
Dibenzofuran	<1.0		mg/kg dw	1.0	3.03	09/16/2004	ake	108	177	SW 8270C
Di-n-butylphthalate	1.3		mg/kg dw	0.95	2.78	09/16/2004	ake	108	177	SW 8270C
1,2-Dichlorobenzene	<2.21		mg/kg dw	2.21	6.62	09/16/2004	ake	108	177	SW 8270C
1,3-Dichlorobenzene	<2.0		mg/kg dw	2.0	5.93	09/16/2004	ake	108	177	SW 8270C
1,4-Dichlorobenzene	<1.9		mg/kg dw	1.9	5.51	09/16/2004	ake	108	177	SW 8270C
3,3-Dichlorobenzidine	<2.30		mg/kg dw	2.30	6.88	09/16/2004	ake	108	177	SW 8270C
Diethyl phthalate	<1.0		mg/kg dw	1.0	3.03	09/16/2004	ake	108	177	SW 8270C
Dimethyl phthalate	<0.90		mg/kg dw	0.90	2.71	09/16/2004	ake	108	177	SW 8270C
2,4-Dinitrotoluene	<1.0		mg/kg dw	1.0	3.03	09/16/2004	ake	108	177	SW 8270C
2,6-Dinitrotoluene	<1.4		mg/kg dw	1.4	4.26	09/16/2004	ake	108	177	SW 8270C
Di-n-octylphthalate	<1.3		mg/kg dw	1.3	3.9	09/16/2004	ake	108	177	SW 8270C
Fluoranthene	<0.77		mg/kg dw	0.77	2.32	09/16/2004	ake	108	177	SW 8270C
Fluorene	<1.1		mg/kg dw	1.1	3.42	09/16/2004	ake	108	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
Hexachlorobenzene	<0.60		mg/kg dw	0.60	1.9	09/16/2004	ake	108	177	SW 8270C
Hexachlorocyclopentadiene	<1.2		mg/kg dw	1.2	3.74	09/16/2004	ake	108	177	SW 8270C
Hexachloro-1,3-butadiene	<1.4		mg/kg dw	1.4	4.30	09/16/2004	ake	108	177	SW 8270C
Hexachloroethane	<1.7		mg/kg dw	1.7	5.29	09/16/2004	ake	108	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.69		mg/kg dw	0.69	2.0	09/16/2004	ake	108	177	SW 8270C
Isophorone	1.3		mg/kg dw	1.3	3.81	09/16/2004	ake	108	177	SW 8270C
2-Methylnaphthalene	<1.4		mg/kg dw	1.4	4.13	09/16/2004	ake	108	177	SW 8270C
Naphthalene	<1.5		mg/kg dw	1.5	4.72	09/16/2004	ake	108	177	SW 8270C
2-Nitroaniline	<1.5		mg/kg dw	1.5	4.4	09/16/2004	ake	108	177	SW 8270C
3-Nitroaniline	<1.3		mg/kg dw	1.3	3.81	09/16/2004	ake	108	177	SW 8270C
4-Nitroaniline	<1.4		mg/kg dw	1.4	4.47	09/16/2004	ake	108	177	SW 8270C
Nitrobenzene	<1.6		mg/kg dw	1.6	4.90	09/16/2004	ake	108	177	SW 8270C
<i>i</i> -Nitrosodimethylamine	<2.38		mg/kg dw	2.38	7.14	09/16/2004	ake	108	177	SW 8270C
<i>N</i> -Nitrosodiphenylamine	<0.73		mg/kg dw	0.73	2.19	09/16/2004	ake	108	177	SW 8270C
<i>N</i> -Nitrosodi- <i>n</i> -propylamine	<1.9		mg/kg dw	1.9	5.33	09/16/2004	ake	108	177	SW 8270C
Phenanthrene	<0.82		mg/kg dw	0.82	2.45	09/16/2004	ake	108	177	SW 8270C
Pyrene	<1.1		mg/kg dw	1.1	3.3	09/16/2004	ake	108	177	SW 8270C
Pyridine	<2.41		mg/kg dw	2.41	7.23	09/16/2004	ake	108	177	SW 8270C
1,2,4-Trichlorobenzene	<1.5		mg/kg dw	1.5	4.72	09/16/2004	ake	108	177	SW 8270C
Nitrobenzene-d5 (surr)	19	OOO	%			09/16/2004	ake	108	177	SW 8270C
2-Fluorobiphenyl (surr)	20	OOO	%			09/16/2004	ake	108	177	SW 8270C
Terphenyl-d14 (surr)	19	OOO	%			09/16/2004	ake	108	177	SW 8270C
Benzoic Acid	<6.9		mg/kg dw	6.9	22	09/16/2004	ake	108	177	SW 8270C
4-Chloro-3-methylphenol	<1.5		mg/kg dw	1.5	4.65	09/16/2004	ake	108	177	SW 8270C
2-chlorophenol	<1.9		mg/kg dw	1.9	5.55	09/16/2004	ake	108	177	SW 8270C
2-Methylphenol	<1.6		mg/kg dw	1.6	5.03	09/16/2004	ake	108	177	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822815	SB-3 2'					09/09/2004 08:10				
4-Methylphenol	<1.7		mg/kg dw	1.7	5.1	09/16/2004	ake	108	177	SW 8270C
Cresols, Total	<3.40		mg/kg dw	3.40	10.2	09/16/2004	ake	108	177	SW 8270C
2,4-Dichlorophenol	<1.6		mg/kg dw	1.6	4.77	09/16/2004	ake	108	177	SW 8270C
2,4-Dimethylphenol	<1.4		mg/kg dw	1.4	4.06	09/16/2004	ake	108	177	SW 8270C
2,4-Dinitrophenol	<0.60		mg/kg dw	0.60	1.9	09/16/2004	ake	108	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.25		mg/kg dw	2.25	6.79	09/16/2004	ake	108	177	SW 8270C
2-Nitrophenol	<2.41		mg/kg dw	2.41	7.23	09/16/2004	ake	108	177	SW 8270C
4-Nitrophenol	<1.4		mg/kg dw	1.4	4.26	09/16/2004	ake	108	177	SW 8270C
Pentachlorophenol	<1.6		mg/kg dw	1.6	4.99	09/16/2004	ake	108	177	SW 8270C
Phenol	<1.6		mg/kg dw	1.6	4.99	09/16/2004	ake	108	177	SW 8270C
2,4,5-Trichlorophenol	<1.4		mg/kg dw	1.4	4.47	09/16/2004	ake	108	177	SW 8270C
2,4,6-Trichlorophenol	<1.2		mg/kg dw	1.2	3.48	09/16/2004	ake	108	177	SW 8270C
Phenol-d6 (surr)	16	OOO	%			09/16/2004	ake	108	177	SW 8270C
2-Fluorophenol (surr)	15	OOO	%			09/16/2004	ake	108	177	SW 8270C
Tribromophenol (surr)	19	OOO	%			09/16/2004	ake	108	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
5035 VOC Preservation	Complete					09/09/2004	sml	12	SW 846 - 5035	
Cyanide, mdl	1.3		mg/kg dw	0.12	0.52	09/15/2004	tlz	870	SW 9012	
Solids, Total	95.42		%	0.01	0.01	09/10/2004	sas	2753	SM 2540 G	

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
Prep, BNA-Nonaqueous (MDL)	Complete					09/14/2004	acm	108		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	43.7		ug/kg dw	8.4	25	09/17/2004	mmk		1049	SW 8260B
Benzene	1.91		ug/kg dw	0.58	1.73	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.20	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	2.99	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.36		ug/kg dw	2.36	7.07	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.51		ug/kg dw	3.51	10.5	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.14		ug/kg dw	5.14	15.2	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.10	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.52	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.9	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.445		ug/kg dw	0.445	1.336	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.47		ug/kg dw	1.47	4.40	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.20	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.67	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.04	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.73	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.09		ug/kg dw	3.09	9.27	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.36	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/17/2004	mmk		1049	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.04	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	2.99	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.351		ug/kg dw	0.351	1.05	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	4.75		ug/kg dw	1.0	2.99	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.36	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.67	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.67	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.52	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.36	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	<0.58		ug/kg dw	0.58	1.73	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.04		ug/kg dw	3.04	9.12	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.10	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.10	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.98		ug/kg dw	4.98	14.9	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.84	5.2	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.58	5.2	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.89		ug/kg dw	1.89	5.66	09/17/2004	mmk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
Tetrachloroethene	1.26	B	ug/kg dw	0.68	2.04	09/17/2004	mmk		1049	SW 8260B
Toluene	1.0		ug/kg dw	0.73	2.20	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.34	5.2	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	<1.10		ug/kg dw	1.10	3.30	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	78.6		ug/kg dw	1.0	2.99	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.5	5.2	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.36	09/17/2004	mmk		1049	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	98		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	107		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	94		%			09/17/2004	mmk		1049	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.32		mg/kg dw	0.32	0.970	09/16/2004	ake	108	177	SW 8270C
Acenaphthylene	<0.30		mg/kg dw	0.30	0.909	09/16/2004	ake	108	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.601	09/16/2004	ake	108	177	SW 8270C
Benzidine	<0.50		mg/kg dw	0.50	1.51	09/16/2004	ake	108	177	SW 8270C
Benzo(a)anthracene	0.52		mg/kg dw	0.19	0.539	09/16/2004	ake	108	177	SW 8270C
Benzo(b)fluoranthene	0.4		mg/kg dw	0.19	0.570	09/16/2004	ake	108	177	SW 8270C
Benzo(k)fluoranthene	0.4		mg/kg dw	0.25	0.755	09/16/2004	ake	108	177	SW 8270C
Benzo(a)pyrene	0.4		mg/kg dw	0.25	0.755	09/16/2004	ake	108	177	SW 8270C
Benzo(ghi)perylene	0.4		mg/kg dw	0.21	0.601	09/16/2004	ake	108	177	SW 8270C

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
Benzyl alcohol	<0.41		mg/kg dw	0.41	1.26	09/16/2004	ake	108	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.662	09/16/2004	ake	108	177	SW 8270C
Bis(2-chloroethyl)ether	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	108	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	108	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.49	09/16/2004	ake	108	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.44		mg/kg dw	0.44	1.32	09/16/2004	ake	108	177	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.740	09/16/2004	ake	108	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.601	09/16/2004	ake	108	177	SW 8270C
4-Chloroaniline	<0.534		mg/kg dw	0.534	1.60	09/16/2004	ake	108	177	SW 8270C
2-Chloronaphthalene	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	108	177	SW 8270C
4-Chlorophenylphenyl ether	<0.28		mg/kg dw	0.28	0.847	09/16/2004	ake	108	177	SW 8270C
Chrysene	0.58		mg/kg dw	0.16	0.46	09/16/2004	ake	108	177	SW 8270C
Dibenzo(a,h)anthracene	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	108	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	108	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.662	09/16/2004	ake	108	177	SW 8270C
1,2-Dichlorobenzene	<0.529		mg/kg dw	0.529	1.58	09/16/2004	ake	108	177	SW 8270C
1,3-Dichlorobenzene	<0.47		mg/kg dw	0.47	1.41	09/16/2004	ake	108	177	SW 8270C
1,4-Dichlorobenzene	<0.43		mg/kg dw	0.43	1.31	09/16/2004	ake	108	177	SW 8270C
3,3-Dichlorobenzidine	<0.549		mg/kg dw	0.549	1.65	09/16/2004	ake	108	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	108	177	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.647	09/16/2004	ake	108	177	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	108	177	SW 8270C
2,6-Dinitrotoluene	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	108	177	SW 8270C
Di-n-octylphthalate	<0.30		mg/kg dw	0.30	0.92	09/16/2004	ake	108	177	SW 8270C
Fluoranthene	1.0		mg/kg dw	0.19	0.554	09/16/2004	ake	108	177	SW 8270C
Fluorene	<0.26		mg/kg dw	0.26	0.816	09/16/2004	ake	108	177	SW 8270C

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822816	SB-3 6'					09/09/2004 08:45				
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.45	09/16/2004	ake	108	177	SW 8270C
Hexachlorocyclopentadiene	<0.29		mg/kg dw	0.29	0.894	09/16/2004	ake	108	177	SW 8270C
Hexachloro-1,3-butadiene	<0.35		mg/kg dw	0.35	1.03	09/16/2004	ake	108	177	SW 8270C
Hexachloroethane	<0.42		mg/kg dw	0.42	1.27	09/16/2004	ake	108	177	SW 8270C
Indeno(1,2,3-cd)pyrene	0.4		mg/kg dw	0.17	0.47	09/16/2004	ake	108	177	SW 8270C
Isophorone	<0.30		mg/kg dw	0.30	0.909	09/16/2004	ake	108	177	SW 8270C
2-Methylnaphthalene	<0.32		mg/kg dw	0.32	0.986	09/16/2004	ake	108	177	SW 8270C
Naphthalene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	108	177	SW 8270C
2-Nitroaniline	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	108	177	SW 8270C
3-Nitroaniline	<0.30		mg/kg dw	0.30	0.909	09/16/2004	ake	108	177	SW 8270C
4-Nitroaniline	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	108	177	SW 8270C
Nitrobenzene	<0.39		mg/kg dw	0.39	1.17	09/16/2004	ake	108	177	SW 8270C
N-Nitrosodimethylamine	<0.570		mg/kg dw	0.570	1.71	09/16/2004	ake	108	177	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.524	09/16/2004	ake	108	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.43		mg/kg dw	0.43	1.28	09/16/2004	ake	108	177	SW 8270C
Phenanthrene	0.4		mg/kg dw	0.20	0.586	09/16/2004	ake	108	177	SW 8270C
Pyrene	0.89		mg/kg dw	0.25	0.78	09/16/2004	ake	108	177	SW 8270C
Pyridine	<0.575		mg/kg dw	0.575	1.73	09/16/2004	ake	108	177	SW 8270C
1,2,4-Trichlorobenzene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	108	177	SW 8270C
Nitrobenzene-d5 (surr)	71		%			09/16/2004	ake	108	177	SW 8270C
2-Fluorobiphenyl (surr)	83		%			09/16/2004	ake	108	177	SW 8270C
Terphenyl-d14 (surr)	94	OOO	%			09/16/2004	ake	108	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.1	09/16/2004	ake	108	177	SW 8270C
4-Chloro-3-methylphenol	<0.37		mg/kg dw	0.37	1.11	09/16/2004	ake	108	177	SW 8270C
2-chlorophenol	<0.44		mg/kg dw	0.44	1.32	09/16/2004	ake	108	177	SW 8270C
2-Methylphenol	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	108	177	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822816	SAMPLE DESCRIPTION SB-3 6'					DATE-TIME TAKEN 09/09/2004 08:45				
4-Methylphenol	<0.41		mg/kg dw	0.41	1.3	09/16/2004	ake	108	177	SW 8270C
Cresols, Total	<0.811		mg/kg dw	0.811	2.43	09/16/2004	ake	108	177	SW 8270C
2,4-Dichlorophenol	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	108	177	SW 8270C
2,4-Dimethylphenol	<0.32		mg/kg dw	0.32	0.970	09/16/2004	ake	108	177	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.43	09/16/2004	ake	108	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.539		mg/kg dw	0.539	1.62	09/16/2004	ake	108	177	SW 8270C
2-Nitrophenol	<0.575		mg/kg dw	0.575	1.73	09/16/2004	ake	108	177	SW 8270C
4-Nitrophenol	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	108	177	SW 8270C
Pentachlorophenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	108	177	SW 8270C
Phenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	108	177	SW 8270C
2,4,5-Trichlorophenol	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	108	177	SW 8270C
2,4,6-Trichlorophenol	<0.27		mg/kg dw	0.27	0.832	09/16/2004	ake	108	177	SW 8270C
Phenol-d6 (surr)	75		%			09/16/2004	ake	108	177	SW 8270C
2-Fluorophenol (surr)	62		%			09/16/2004	ake	108	177	SW 8270C
Tribromophenol (surr)	89		%			09/16/2004	ake	108	177	SW 8270C

SAMPLE NO. 822817	SAMPLE DESCRIPTION SB-2 2'					DATE-TIME TAKEN 09/09/2004 08:55				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	0.25		mg/kg dw	0.12	0.54	09/15/2004	tlz		870	SW 9012
Solids, Total	92.60		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478
 Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822817	SAMPLE DESCRIPTION SB-2 2'					DATE-TIME TAKEN 09/09/2004 08:55				
Prep, BNA-Nonaqueous (MDL) VOA 8260 NON-AQUEOUS LRL	Complete					09/15/2004	acm	109		SW 3550
Acetone	29.0		ug/kg dw	8.6	26	09/17/2004	mmk	1049		SW 8260B
Benzene	0.84		ug/kg dw	0.59	1.78	09/17/2004	mmk	1049		SW 8260B
Bromobenzene	<0.76		ug/kg dw	0.76	2.27	09/17/2004	mmk	1049		SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.08	09/17/2004	mmk	1049		SW 8260B
Bromodichloromethane	<2.43		ug/kg dw	2.43	7.29	09/17/2004	mmk	1049		SW 8260B
Bromoform	<3.62		ug/kg dw	3.62	10.8	09/17/2004	mmk	1049		SW 8260B
Bromomethane	<5.29		ug/kg dw	5.29	15.7	09/17/2004	mmk	1049		SW 8260B
Methyl ethyl ketone (MEK)	<0.92		ug/kg dw	0.92	2.16	09/17/2004	mmk	1049		SW 8260B
n-Butylbenzene	<5.4		ug/kg dw	0.51	5.4	09/17/2004	mmk	1049		SW 8260B
sec-Butylbenzene	<5.4		ug/kg dw	1.57	5.4	09/17/2004	mmk	1049		SW 8260B
tert-Butylbenzene	<5.4		ug/kg dw	0.5	5.4	09/17/2004	mmk	1049		SW 8260B
Carbon tetrachloride	<6.5		ug/kg dw	6.5	19.4	09/17/2004	mmk	1049		SW 8260B
Chlorobenzene	<0.459		ug/kg dw	0.459	1.377	09/17/2004	mmk	1049		SW 8260B
Chlorodibromomethane	<1.51		ug/kg dw	1.51	4.54	09/17/2004	mmk	1049		SW 8260B
Chloroethane	<0.76		ug/kg dw	0.76	2.27	09/17/2004	mmk	1049		SW 8260B
Chloroform	<0.92		ug/kg dw	0.92	2.75	09/17/2004	mmk	1049		SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk	1049		SW 8260B
2-Chlorotoluene	<0.70		ug/kg dw	0.70	2.11	09/17/2004	mmk	1049		SW 8260B
4-Chlorotoluene	<0.59		ug/kg dw	0.59	1.78	09/17/2004	mmk	1049		SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/17/2004	mmk	1049		SW 8260B
1,2-Dibromoethane (EDB)	<3.19		ug/kg dw	3.19	9.56	09/17/2004	mmk	1049		SW 8260B
Dibromomethane	<0.81		ug/kg dw	0.81	2.43	09/17/2004	mmk	1049		SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk	1049		SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk	1049		SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
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09/28/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822817	SB-2 2'					09/09/2004 08:55				
1,4-Dichlorobenzene	<0.70		ug/kg dw	0.70	2.11	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.08	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.86		ug/kg dw	0.86	2.6	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.362		ug/kg dw	0.362	1.08	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	7.62		ug/kg dw	1.0	3.08	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	1.43		ug/kg dw	0.81	2.43	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.92		ug/kg dw	0.92	2.75	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.39		ug/kg dw	0.39	1.17	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.92		ug/kg dw	0.92	2.75	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.86		ug/kg dw	0.86	2.59	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.81		ug/kg dw	0.81	2.43	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	0.75		ug/kg dw	0.59	1.78	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.13		ug/kg dw	3.13	9.40	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.59		ug/kg dw	0.59	2.16	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.39		ug/kg dw	0.39	1.17	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<54		ug/kg dw	7.6	54	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.76		ug/kg dw	0.76	2.16	09/17/2004	mmk		1049	SW 8260B
MTBE	<5.13		ug/kg dw	5.13	15.3	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.4		ug/kg dw	0.86	5.4	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.4		ug/kg dw	0.59	5.4	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.41		ug/kg dw	0.41	1.23	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.94		ug/kg dw	1.94	5.83	09/17/2004	mmk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.6	09/17/2004	mmk		1049	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
822817	SB-2 2'								09/09/2004 08:55	
Tetrachloroethene	<0.70	B	ug/kg dw	0.70	2.11	09/17/2004	mnk		1049	SW 8260B
Toluene	1.25		ug/kg dw	0.76	2.27	09/17/2004	mnk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.4		ug/kg dw	1.7	5.4	09/17/2004	mnk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.4		ug/kg dw	0.35	5.4	09/17/2004	mnk		1049	SW 8260B
1,1,1-Trichloroethane	<1.13		ug/kg dw	1.13	3.40	09/17/2004	mnk		1049	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.9	09/17/2004	mnk		1049	SW 8260B
Trichloroethylene	8.69		ug/kg dw	1.0	3.08	09/17/2004	mnk		1049	SW 8260B
Trichlorofluoromethane	<0.48		ug/kg dw	0.48	1.45	09/17/2004	mnk		1049	SW 8260B
1,2,3-Trichloropropane	<0.97		ug/kg dw	0.97	2.9	09/17/2004	mnk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.4	LC	ug/kg dw	1.5	5.4	09/17/2004	mnk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.4		ug/kg dw	2.5	5.4	09/17/2004	mnk		1049	SW 8260B
Vinyl Chloride	<0.81		ug/kg dw	0.81	2.43	09/17/2004	mnk		1049	SW 8260B
Alkenes, Total	<5.4		ug/kg dw	1.7	5.4	09/17/2004	mnk		1049	SW 8260B
4-Bromofluorobenzene (surr)	94		%			09/17/2004	mnk		1049	SW 8260B
Dibromofluoromethane (surr)	108		%			09/17/2004	mnk		1049	SW 8260B
Toluene-d8 (surr)	94		%			09/17/2004	mnk		1049	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.68	MSO	mg/kg dw	0.68	2.02	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.64		mg/kg dw	0.64	1.89	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.43		mg/kg dw	0.43	1.25	09/16/2004	ake	109	177	SW 8270C
Benidine	<1.0		mg/kg dw	1.0	3.14	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	0.54		mg/kg dw	0.39	1.12	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	0.4		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.52		mg/kg dw	0.52	1.58	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.52		mg/kg dw	0.52	1.58	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.43		mg/kg dw	0.43	1.25	09/16/2004	ake	109	177	SW 8270C

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.
 MSO - MS and/or MSD recoveries are outside of control limits
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822817	SB-2 2'					09/09/2004 08:55				
Benzyl alcohol	<0.85		mg/kg dw	0.85	2.61	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.48		mg/kg dw	0.48	1.38	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.83		mg/kg dw	0.83	2.51	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.79		mg/kg dw	0.79	2.38	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	0.54		mg/kg dw	0.35	1.0	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.92		mg/kg dw	0.92	2.75	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.52		mg/kg dw	0.52	1.54	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.43		mg/kg dw	0.43	1.25	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<1.11		mg/kg dw	1.11	3.34	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.75		mg/kg dw	0.75	2.2	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.59		mg/kg dw	0.59	1.76	09/16/2004	ake	109	177	SW 8270C
Chrysene	0.54		mg/kg dw	0.32	0.96	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.81		mg/kg dw	0.81	2.48	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.52		mg/kg dw	0.52	1.51	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.48		mg/kg dw	0.48	1.38	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<1.10		mg/kg dw	1.10	3.29	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.98		mg/kg dw	0.98	2.95	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.90	MSO	mg/kg dw	0.90	2.73	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<1.14		mg/kg dw	1.14	3.42	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.52		mg/kg dw	0.52	1.51	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.45		mg/kg dw	0.45	1.35	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.52	MSO	mg/kg dw	0.52	1.51	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.70		mg/kg dw	0.70	2.12	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.64		mg/kg dw	0.64	1.9	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	1.3		mg/kg dw	0.39	1.16	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.55		mg/kg dw	0.55	1.70	09/16/2004	ake	109	177	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822817	SB-2 2'					09/09/2004 08:55				
Hexachlorobenzene	<0.30		mg/kg dw	0.30	0.94	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.62		mg/kg dw	0.62	1.86	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.72		mg/kg dw	0.72	2.14	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.87		mg/kg dw	0.87	2.63	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.35		mg/kg dw	0.35	0.98	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.64		mg/kg dw	0.64	1.89	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.68		mg/kg dw	0.68	2.05	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.77		mg/kg dw	0.77	2.35	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.75		mg/kg dw	0.75	2.2	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.64		mg/kg dw	0.64	1.89	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.72		mg/kg dw	0.72	2.22	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.81		mg/kg dw	0.81	2.44	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<1.19		mg/kg dw	1.19	3.55	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.37		mg/kg dw	0.37	1.09	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.90	MSO	mg/kg dw	0.90	2.66	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	1.0		mg/kg dw	0.41	1.22	09/16/2004	ake	109	177	SW 8270C
Pyrene	1.2	MSO	mg/kg dw	0.54	1.6	09/16/2004	ake	109	177	SW 8270C
Pyridine	<1.20		mg/kg dw	1.20	3.60	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.77	MSO	mg/kg dw	0.77	2.35	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	47	OOC	%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	51	OOC	%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	53	OOC	%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<3.5		mg/kg dw	3.5	11	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.77	MSO	mg/kg dw	0.77	2.31	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.92	MSO	mg/kg dw	0.92	2.75	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.83		mg/kg dw	0.83	2.51	09/16/2004	ake	109	177	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits
 OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822817	SAMPLE DESCRIPTION SB-2 2'					DATE-TIME TAKEN 09/09/2004 08:55				
4-Methylphenol	<0.85		mg/kg dw	0.85	2.6	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<1.68		mg/kg dw	1.68	5.06	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.79		mg/kg dw	0.79	2.38	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.68		mg/kg dw	0.68	2.02	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.30		mg/kg dw	0.30	0.90	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<1.12		mg/kg dw	1.12	3.38	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<1.20		mg/kg dw	1.20	3.60	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.70	MSO	mg/kg dw	0.70	2.12	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.81	MSO	mg/kg dw	0.81	2.48	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.81	MSO	mg/kg dw	0.81	2.48	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.72		mg/kg dw	0.72	2.22	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.57		mg/kg dw	0.57	1.73	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	35	OOO	%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	30	OOO	%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	44	OOO	%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822818	SB-2 4'					09/09/2004 09:30				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/15/2004	tlz		870	SW 9012
Solids, Total	95.98		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G

MSO - MS and/or MSD recoveries are outside of control limits
 OOO - Surrogate recovery outside QC limits due to matrix interferences.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
822818	SB-2 4'	09/09/2004 09:30

Prep, BNA-Nonaqueous (MDL) VOA 8260 NON-AQUEOUS LRL	Complete					09/15/2004	acm	109		SW 3550
Acetone	29.8		ug/kg dw	8.3	25	09/17/2004	munk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	munk		1049	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/17/2004	munk		1049	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.97	09/17/2004	munk		1049	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.03	09/17/2004	munk		1049	SW 8260B
Bromoform	<3.49		ug/kg dw	3.49	10.4	09/17/2004	munk		1049	SW 8260B
Bromomethane	<5.11		ug/kg dw	5.11	15.1	09/17/2004	munk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.08	09/17/2004	munk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	munk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/17/2004	munk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	munk		1049	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/17/2004	munk		1049	SW 8260B
Chlorobenzene	<0.443		ug/kg dw	0.443	1.328	09/17/2004	munk		1049	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.38	09/17/2004	munk		1049	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/17/2004	munk		1049	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/17/2004	munk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	munk		1049	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/17/2004	munk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	munk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	munk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.07		ug/kg dw	3.07	9.22	09/17/2004	munk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/17/2004	munk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822818	SAMPLE DESCRIPTION SB-2		4'						DATE-TIME TAKEN 09/09/2004 09:30	
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.97	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.349		ug/kg dw	0.349	1.04	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.97	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.50	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.02		ug/kg dw	3.02	9.06	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.95		ug/kg dw	4.95	14.8	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.63	09/17/2004	mmk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822818	SB-2 4'					09/09/2004 09:30				
Tetrachloroethene	<0.68	B	ug/kg dw	0.68	2.03	09/17/2004	mmk		1049	SW 8260B
Toluene	<0.73		ug/kg dw	0.73	2.19	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.28	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	1.14		ug/kg dw	0.99	2.97	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.5	5.2	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
Alkenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	97		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	108		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	94		%			09/17/2004	mmk		1049	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.066		mg/kg dw	0.066	0.197	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.061		mg/kg dw	0.061	0.184	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.041		mg/kg dw	0.041	0.122	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.306	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.109	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.039		mg/kg dw	0.039	0.116	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.153	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.153	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.041		mg/kg dw	0.041	0.122	09/16/2004	ake	109	177	SW 8270C

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822818	SB-2 4'					09/09/2004 09:30				
Benzyl alcohol	<0.084		mg/kg dw	0.084	0.253	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.134	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.081		mg/kg dw	0.081	0.244	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.077		mg/kg dw	0.077	0.231	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.10	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.090		mg/kg dw	0.090	0.269	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.150	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.041		mg/kg dw	0.041	0.122	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.108		mg/kg dw	0.108	0.325	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.073		mg/kg dw	0.073	0.22	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.172	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.094	09/16/2004	ake	109	177	SW 8270C
Dibenzo (a,h)anthracene	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.147	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.134	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.107		mg/kg dw	0.107	0.322	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.096		mg/kg dw	0.096	0.288	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.089		mg/kg dw	0.089	0.266	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.111		mg/kg dw	0.111	0.334	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.147	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.147	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.069		mg/kg dw	0.069	0.206	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.063		mg/kg dw	0.063	0.19	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.166	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822818	SB-2 4'					09/09/2004 09:30				
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.091	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.181	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.070		mg/kg dw	0.070	0.209	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.097	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.184	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.067		mg/kg dw	0.067	0.200	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.073		mg/kg dw	0.073	0.22	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.184	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.072		mg/kg dw	0.072	0.216	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
i-Nitrosodimethylamine	<0.116		mg/kg dw	0.116	0.347	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.106	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.086		mg/kg dw	0.086	0.259	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.040		mg/kg dw	0.040	0.119	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.052		mg/kg dw	0.052	0.16	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.117		mg/kg dw	0.117	0.350	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	58		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	60	OOC	%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	88		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.075		mg/kg dw	0.075	0.225	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.090		mg/kg dw	0.090	0.269	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.081		mg/kg dw	0.081	0.244	09/16/2004	ake	109	177	SW 8270C

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822818	SAMPLE DESCRIPTION SB-2 4'					DATE-TIME TAKEN 09/09/2004 09:30				
4-Methylphenol	<0.083		mg/kg dw	0.083	0.25	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.165		mg/kg dw	0.165	0.494	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.077		mg/kg dw	0.077	0.231	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.066		mg/kg dw	0.066	0.197	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.088	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.109		mg/kg dw	0.109	0.328	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.117		mg/kg dw	0.117	0.350	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.069		mg/kg dw	0.069	0.206	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.072		mg/kg dw	0.072	0.216	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.169	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	58		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	53		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	92		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822819	SB-1 2'					09/09/2004 09:50				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.51	09/15/2004	tlz		870	SW 9012
Solids, Total	97.48		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Table with columns: Analyte, Result, Flag, Units, MDL, LOQ, Date Analyzed, Analyst Initials, Prep Batch, Run Batch, Method. Includes sample data for Arsenic, Mercury, GFAA Metals Digestion, etc.

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822819	SAMPLE DESCRIPTION SB-1 2'								DATE-TIME TAKEN 09/09/2004 09:50	
Chlorodibromomethane	<1.44		ug/kg dw	1.44	4.31	09/17/2004	mnk		1049	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.15	09/17/2004	mnk		1049	SW 8260B
Chloroform	<0.87		ug/kg dw	0.87	2.62	09/17/2004	mnk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/17/2004	mnk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.00	09/17/2004	mnk		1049	SW 8260B
4-Chlorotoluene	<0.56		ug/kg dw	0.56	1.69	09/17/2004	mnk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mnk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.03		ug/kg dw	3.03	9.08	09/17/2004	mnk		1049	SW 8260B
Dibromomethane	<0.77		ug/kg dw	0.77	2.31	09/17/2004	mnk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mnk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mnk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.00	09/17/2004	mnk		1049	SW 8260B
Dichlorodifluoromethane	<0.97		ug/kg dw	0.97	2.92	09/17/2004	mnk		1049	SW 8260B
1,1-Dichloroethane	<0.82		ug/kg dw	0.82	2.5	09/17/2004	mnk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mnk		1049	SW 8260B
1,1-Dichloroethene	<0.344		ug/kg dw	0.344	1.03	09/17/2004	mnk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.97		ug/kg dw	0.97	2.92	09/17/2004	mnk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.31	09/17/2004	mnk		1049	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.32	09/17/2004	mnk		1049	SW 8260B
1,3-Dichloropropane	<0.87		ug/kg dw	0.87	2.62	09/17/2004	mnk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.11	09/17/2004	mnk		1049	SW 8260
1,1-Dichloropropene	<0.87		ug/kg dw	0.87	2.62	09/17/2004	mnk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.46	09/17/2004	mnk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.31	09/17/2004	mnk		1049	SW 8260B
Ethylbenzene	<0.56		ug/kg dw	0.56	1.69	09/17/2004	mnk		1049	SW 8260B
Hexachlorobutadiene	<2.97		ug/kg dw	2.97	8.92	09/17/2004	mnk		1049	SW 8260B



ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Table with columns: Analyte, Result, Flag, Units, MDL, LOQ, Date Analyzed, Analyst Initials, Prep Batch, Run Batch, Method. Includes sample data for 822819, SB-1, 2'.

B - This analyte was detected in the method blank.
LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822819	SB-1 2'					09/09/2004 09:50				
Toluene-d8 (surr)	94		%			09/17/2004	mmk		1049	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.063		mg/kg dw	0.063	0.188	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.058		mg/kg dw	0.058	0.176	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.039		mg/kg dw	0.039	0.116	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.097		mg/kg dw	0.097	0.292	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.035		mg/kg dw	0.035	0.105	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.037		mg/kg dw	0.037	0.111	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.049		mg/kg dw	0.049	0.147	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.049		mg/kg dw	0.049	0.147	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.039		mg/kg dw	0.039	0.116	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.081		mg/kg dw	0.081	0.242	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.043		mg/kg dw	0.043	0.128	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.078		mg/kg dw	0.078	0.233	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.074		mg/kg dw	0.074	0.221	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.032		mg/kg dw	0.032	0.095	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.048		mg/kg dw	0.048	0.144	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.039		mg/kg dw	0.039	0.116	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.104		mg/kg dw	0.104	0.311	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.070		mg/kg dw	0.070	0.21	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.054		mg/kg dw	0.054	0.164	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.030		mg/kg dw	0.030	0.089	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.077		mg/kg dw	0.077	0.230	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.043		mg/kg dw	0.043	0.128	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822819	SB-1 2'					09/09/2004 09:50				
1,2-Dichlorobenzene	<0.102		mg/kg dw	0.102	0.308	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.091		mg/kg dw	0.091	0.275	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.084		mg/kg dw	0.084	0.253	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.107		mg/kg dw	0.107	0.319	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.042		mg/kg dw	0.042	0.125	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.066		mg/kg dw	0.066	0.197	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.059		mg/kg dw	0.059	0.17	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.036		mg/kg dw	0.036	0.108	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.052		mg/kg dw	0.052	0.158	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.029		mg/kg dw	0.029	0.086	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.057		mg/kg dw	0.057	0.173	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.067		mg/kg dw	0.067	0.200	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.082		mg/kg dw	0.082	0.245	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.031		mg/kg dw	0.031	0.092	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.058		mg/kg dw	0.058	0.176	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.064		mg/kg dw	0.064	0.191	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.073		mg/kg dw	0.073	0.217	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.070		mg/kg dw	0.070	0.21	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.058		mg/kg dw	0.058	0.176	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.069		mg/kg dw	0.069	0.206	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.076		mg/kg dw	0.076	0.227	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<0.111		mg/kg dw	0.111	0.331	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.034		mg/kg dw	0.034	0.101	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.083		mg/kg dw	0.083	0.248	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822819	SB-1 2'					09/09/2004 09:50				
Phenanthrene	<0.038		mg/kg dw	0.038	0.114	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.049		mg/kg dw	0.049	0.15	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.112		mg/kg dw	0.112	0.334	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.073		mg/kg dw	0.073	0.217	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	51	OOC	%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	62	OOC	%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	92		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.33		mg/kg dw	0.33	0.98	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.072		mg/kg dw	0.072	0.215	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.078		mg/kg dw	0.078	0.233	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.080		mg/kg dw	0.080	0.24	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.157		mg/kg dw	0.157	0.472	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.074		mg/kg dw	0.074	0.221	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.063		mg/kg dw	0.063	0.188	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.083	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.105		mg/kg dw	0.105	0.314	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.112		mg/kg dw	0.112	0.334	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.066		mg/kg dw	0.066	0.197	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.077		mg/kg dw	0.077	0.230	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.077		mg/kg dw	0.077	0.230	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.069		mg/kg dw	0.069	0.206	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.053		mg/kg dw	0.053	0.161	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	54	OOC	%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	43	OOC	%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	91		%			09/16/2004	ake	109	177	SW 8270C

OOC - Surrogate recovery outside QC limits due to matrix interferences.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
5035 VOC Preservation	Complete					09/09/2004	sm1		12	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/15/2004	tlz		870	SW 9012
Solids, Total	96.59		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G
Arsenic, (GFAA) mdl	0.721		mg/kg dw	0.22	1.0	09/14/2004	mrm	911	631	SW 7060A
Mercury, mdl	0.0045	B	mg/kg dw	0.0012	0.0045	09/15/2004	heh		2063	SW 7471A
GFAA Metals Digestion	1.094		g			09/14/2004	tdo	911		SW 3050 B
ICP Metals Prep (Solid)	1.027		g			09/17/2004	tdo	1506		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	22		mg/kg dw	0.202	0.52	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	<0.25		mg/kg dw	0.25	0.87	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	3.5		mg/kg dw	0.40	1.0	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/20/2004	llw	1506	636	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	17.2		ug/kg dw	8.3	25	09/17/2004	mmk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.33		ug/kg dw	2.33	6.99	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.47		ug/kg dw	3.47	10.4	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.07		ug/kg dw	5.07	15.0	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.07	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/17/2004	mmk		1049	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	munk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/17/2004	munk		1049	SW 8260B
Chlorobenzene	<0.440		ug/kg dw	0.440	1.320	09/17/2004	munk		1049	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.35	09/17/2004	munk		1049	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/17/2004	munk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.64	09/17/2004	munk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	munk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	munk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	munk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	munk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.05		ug/kg dw	3.05	9.16	09/17/2004	munk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.33	09/17/2004	munk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	munk		1049	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	munk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	munk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
1,1-Dichloroethene	<0.347		ug/kg dw	0.347	1.04	09/17/2004	munk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	munk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	munk		1049	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/17/2004	munk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.64	09/17/2004	munk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	munk		1049	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.64	09/17/2004	munk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/17/2004	munk		1049	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	munk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	munk		1049	SW 8260B
Hexachlorobutadiene	<3.00		ug/kg dw	3.00	9.01	09/17/2004	munk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.07	09/17/2004	munk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	munk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	munk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/17/2004	munk		1049	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.07	09/17/2004	munk		1049	SW 8260B
MTBE	<4.92		ug/kg dw	4.92	14.7	09/17/2004	munk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	munk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	munk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	munk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.59	09/17/2004	munk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
Tetrachloroethene	<0.67	B	ug/kg dw	0.67	2.02	09/17/2004	munk		1049	SW 8260B
Toluene	<0.72		ug/kg dw	0.72	2.17	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	munk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	munk		1049	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.26	09/17/2004	munk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	munk		1049	SW 8260B
Trichloroethylene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	munk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	munk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.4	5.2	09/17/2004	munk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	munk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.33	09/17/2004	munk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mnk		1049	SW 8260B
4-Bromofluorobenzene (surr)	101		%			09/17/2004	mnk		1049	SW 8260B
Dibromofluoromethane (surr)	107		%			09/17/2004	mnk		1049	SW 8260B
Toluene-d8 (surr)	98		%			09/17/2004	mnk		1049	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.33		mg/kg dw	0.33	0.978	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.31		mg/kg dw	0.31	0.916	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.606	09/16/2004	ake	109	177	SW 8270C
Benzdine	<0.51		mg/kg dw	0.51	1.52	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.544	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.575	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.761	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.761	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.606	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.41		mg/kg dw	0.41	1.26	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.668	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.50	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.34	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.745	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.606	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.538		mg/kg dw	0.538	1.62	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.29		mg/kg dw	0.29	0.854	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.47	09/16/2004	ake	109	177	SW 8270C

R - Reporting limit elevated due to matrix interferences

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
Dibenzo(a,h)anthracene	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.730	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.668	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.533		mg/kg dw	0.533	1.59	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.48		mg/kg dw	0.48	1.43	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.43		mg/kg dw	0.43	1.33	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.554		mg/kg dw	0.554	1.66	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.730	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.652	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.730	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.31		mg/kg dw	0.31	0.93	09/16/2004	ake	109	177	SW 8270C
fluoranthene	<0.19		mg/kg dw	0.19	0.559	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.27		mg/kg dw	0.27	0.823	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.14		mg/kg dw	0.14	0.46	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.30		mg/kg dw	0.30	0.901	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.35		mg/kg dw	0.35	1.04	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.42		mg/kg dw	0.42	1.27	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.48	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.31		mg/kg dw	0.31	0.916	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.33		mg/kg dw	0.33	0.994	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.37		mg/kg dw	0.37	1.14	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.31		mg/kg dw	0.31	0.916	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.35		mg/kg dw	0.35	1.08	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.39		mg/kg dw	0.39	1.18	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
N-Nitrosodimethylamine	<0.575		mg/kg dw	0.575	1.72	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.528	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.43		mg/kg dw	0.43	1.28	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.590	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.26		mg/kg dw	0.26	0.78	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.580		mg/kg dw	0.580	1.74	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.37		mg/kg dw	0.37	1.14	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	91		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	97		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	87		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.2	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.37		mg/kg dw	0.37	1.12	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.45		mg/kg dw	0.45	1.34	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.41		mg/kg dw	0.41	1.2	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.818		mg/kg dw	0.818	2.45	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.33		mg/kg dw	0.33	0.978	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.14		mg/kg dw	0.14	0.43	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.544		mg/kg dw	0.544	1.64	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.580		mg/kg dw	0.580	1.74	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.35		mg/kg dw	0.35	1.08	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.28		mg/kg dw	0.28	0.839	09/16/2004	ake	109	177	SW 8270C

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822820	SB-1 6'					09/09/2004 10:10				
Phenol-d6 (surr)	62		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	53		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	73		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	<0.11		mg/kg dw	0.11	0.52	09/15/2004	tlz		870	SW 9012
Solids, Total	96.46		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G
Rep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	18.7		ug/kg dw	8.3	25	09/17/2004	mmk		1049	SW 8260B
Benzene	1.71		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.33		ug/kg dw	2.33	7.00	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.47		ug/kg dw	3.47	10.4	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.08		ug/kg dw	5.08	15.0	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.07	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.322	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.35	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.17	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.347		ug/kg dw	0.347	1.04	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
822821	SB-5 2'								09/09/2004 10:20	
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	0.67		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.02	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.07	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.07	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.92		ug/kg dw	4.92	14.7	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.60	09/17/2004	mmk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
Tetrachloroethene	<0.67	B	ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
Toluene	1.79		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.27	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	6.06		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.5	5.2	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mnk		1049	SW 8260B
4-Bromofluorobenzene (surr)	94		%			09/17/2004	mnk		1049	SW 8260B
Dibromofluoromethane (surr)	108		%			09/17/2004	mnk		1049	SW 8260B
Toluene-d8 (surr)	94		%			09/17/2004	mnk		1049	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.33		mg/kg dw	0.33	0.970	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.31		mg/kg dw	0.31	0.908	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.600	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.51		mg/kg dw	0.51	1.51	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.539	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.569	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.755	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.755	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.600	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.41		mg/kg dw	0.41	1.25	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.662	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.40		mg/kg dw	0.40	1.20	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.50	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.33	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.739	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.600	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.534		mg/kg dw	0.534	1.60	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.29		mg/kg dw	0.29	0.847	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.47	09/16/2004	ake	109	177	SW 8270C

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
Dibenzo(a,h)anthracene	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.662	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.529		mg/kg dw	0.529	1.58	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.48		mg/kg dw	0.48	1.42	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.44		mg/kg dw	0.44	1.32	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.549		mg/kg dw	0.549	1.64	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.647	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.724	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.31		mg/kg dw	0.31	0.92	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.555	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.27		mg/kg dw	0.27	0.816	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.46	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.30		mg/kg dw	0.30	0.893	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.35		mg/kg dw	0.35	1.03	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.43		mg/kg dw	0.43	1.26	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.48	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.31		mg/kg dw	0.31	0.908	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.33		mg/kg dw	0.33	0.985	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.31		mg/kg dw	0.31	0.908	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.39		mg/kg dw	0.39	1.17	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
N-Nitrosodimethylamine	<0.569		mg/kg dw	0.569	1.70	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.524	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.44		mg/kg dw	0.44	1.28	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.585	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.26		mg/kg dw	0.26	0.77	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.574		mg/kg dw	0.574	1.72	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	72		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	89		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	89		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.2	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.37		mg/kg dw	0.37	1.11	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.45		mg/kg dw	0.45	1.33	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.40		mg/kg dw	0.40	1.20	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.41		mg/kg dw	0.41	1.2	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.811		mg/kg dw	0.811	2.44	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.33		mg/kg dw	0.33	0.970	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.44	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.539		mg/kg dw	0.539	1.62	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.574		mg/kg dw	0.574	1.72	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.28		mg/kg dw	0.28	0.831	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822821	SB-5 2'					09/09/2004 10:20				
Phenol-d6 (surr)	73		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	61		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	101		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
5035 VOC Preservation	Complete					09/09/2004	sml		12	SW 846 - 5035
Cyanide, mdl	<0.13		mg/kg dw	0.13	0.61	09/15/2004	tiz		870	SW 9012
Solids, Total	81.85		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G
Rep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	<9.8		ug/kg dw	9.8	29	09/21/2004	muk		1045	SW 8260B
Benzene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	muk		1045	SW 8260B
Bromobenzene	<0.86		ug/kg dw	0.86	2.57	09/21/2004	muk		1045	SW 8260B
Bromochloromethane	<1.2		ug/kg dw	1.2	3.48	09/21/2004	muk		1045	SW 8260B
Bromodichloromethane	<2.75		ug/kg dw	2.75	8.25	09/21/2004	muk		1045	SW 8260B
Bromoform	<4.09		ug/kg dw	4.09	12.2	09/21/2004	muk		1045	SW 8260B
Bromomethane	<5.99		ug/kg dw	5.99	17.7	09/21/2004	muk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<1.0		ug/kg dw	1.0	2.44	09/21/2004	muk		1045	SW 8260B
n-Butylbenzene	248	I	ug/kg dw	0.57	6.1	09/21/2004	muk		1045	SW 8260B
sec-Butylbenzene	782		ug/kg dw	72.4	244	09/20/2004	muk		1050	SW 8260B

I - Internal Standard outside of QC limits due to sample matrix.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
tert-Butylbenzene	1,590		ug/kg dw	24	244	09/20/2004	mmk		1050	SW 8260B
Carbon tetrachloride	<7.3		ug/kg dw	7.3	22.0	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.519		ug/kg dw	0.519	1.558	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.71		ug/kg dw	1.71	5.13	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.86		ug/kg dw	0.86	2.57	09/21/2004	mmk		1045	SW 8260B
Chloroform	<1.0		ug/kg dw	1.0	3.12	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.8	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	16.2		ug/kg dw	0.79	2.38	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	166		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<12	I	ug/kg dw	12	37	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.60		ug/kg dw	3.60	10.8	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.92		ug/kg dw	0.92	2.75	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.3	I	ug/kg dw	1.3	4.0	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.3	I	ug/kg dw	1.3	4.0	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.79	I	ug/kg dw	0.79	2.38	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<1.2		ug/kg dw	1.2	3.48	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	<0.98		ug/kg dw	0.98	2.9	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.3		ug/kg dw	1.3	4.0	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.409		ug/kg dw	0.409	1.22	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	<1.2		ug/kg dw	1.2	3.48	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.92		ug/kg dw	0.92	2.75	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.53		ug/kg dw	0.53	1.58	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<1.0		ug/kg dw	1.0	3.12	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.32	09/21/2004	mmk		1045	SW 8260
1,1-Dichloropropene	<1.0		ug/kg dw	1.0	3.12	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B

I - Internal Standard outside of QC limits due to sample matrix.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
trans-1,3-Dichloropropene	<0.92		ug/kg dw	0.92	2.75	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	43.6		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.54	I	ug/kg dw	3.54	10.6	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.67		ug/kg dw	0.67	2.44	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	31.8		ug/kg dw	0.44	1.32	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.6	I	ug/kg dw	0.6	1.8	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<61		ug/kg dw	8.6	61	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.86		ug/kg dw	0.86	2.44	09/21/2004	mmk		1045	SW 8260B
MTBE	<5.80		ug/kg dw	5.80	17.3	09/21/2004	mmk		1045	SW 8260B
Naphthalene	448	I	ug/kg dw	0.98	6.1	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	128		ug/kg dw	0.67	6.1	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.46		ug/kg dw	0.46	1.39	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<2.20		ug/kg dw	2.20	6.60	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.3		ug/kg dw	1.3	4.0	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	<0.79		ug/kg dw	0.79	2.38	09/21/2004	mmk		1045	SW 8260B
Toluene	2.09		ug/kg dw	0.86	2.57	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichlorobenzene	<6.1	I	ug/kg dw	2.0	6.1	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trichlorobenzene	9.4	I	ug/kg dw	0.39	6.1	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	<1.28		ug/kg dw	1.28	3.85	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.5		ug/kg dw	1.5	4.4	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	<1.2		ug/kg dw	1.2	3.48	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	<0.54		ug/kg dw	0.54	1.64	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<1.1		ug/kg dw	1.1	3.3	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	298		ug/kg dw	1.7	6.1	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	101		ug/kg dw	2.8	6.1	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.92		ug/kg dw	0.92	2.75	09/21/2004	mmk		1045	SW 8260B

I - Internal Standard outside of QC limits due to sample matrix.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
Xylenes, Total	29.3		ug/kg dw	2.0	6.1	09/21/2004	mmk	1045		SW 8260B
4-Bromofluorobenzene (surr)	45	OOC	%			09/21/2004	mmk	1045		SW 8260B
Dibromofluoromethane (surr)	99		%			09/21/2004	mmk	1045		SW 8260B
Toluene-d8 (surr)	137		%			09/21/2004	mmk	1045		SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	0.13		mg/kg dw	0.076	0.226	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.071		mg/kg dw	0.071	0.211	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.046		mg/kg dw	0.046	0.141	09/16/2004	ake	109	177	SW 8270C
Benidine	<0.12		mg/kg dw	0.12	0.352	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.042		mg/kg dw	0.042	0.126	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.044		mg/kg dw	0.044	0.133	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.059		mg/kg dw	0.059	0.176	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.059		mg/kg dw	0.059	0.176	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.046		mg/kg dw	0.046	0.141	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.097		mg/kg dw	0.097	0.291	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.051		mg/kg dw	0.051	0.154	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.093		mg/kg dw	0.093	0.280	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.089		mg/kg dw	0.089	0.266	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.038		mg/kg dw	0.038	0.11	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.10		mg/kg dw	0.10	0.309	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.057		mg/kg dw	0.057	0.172	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.046		mg/kg dw	0.046	0.141	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.125		mg/kg dw	0.125	0.374	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.084		mg/kg dw	0.084	0.26	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.066		mg/kg dw	0.066	0.198	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.035		mg/kg dw	0.035	0.11	09/16/2004	ake	109	177	SW 8270C

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
Dibenzo (a, h) anthracene	<0.092		mg/kg dw	0.092	0.276	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	0.09		mg/kg dw	0.056	0.169	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.051		mg/kg dw	0.051	0.154	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.123		mg/kg dw	0.123	0.370	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.11		mg/kg dw	0.11	0.330	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.10		mg/kg dw	0.10	0.305	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.128		mg/kg dw	0.128	0.385	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.056		mg/kg dw	0.056	0.169	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.050		mg/kg dw	0.050	0.150	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.056		mg/kg dw	0.056	0.169	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.079		mg/kg dw	0.079	0.237	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.043		mg/kg dw	0.043	0.130	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.064		mg/kg dw	0.064	0.191	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.034		mg/kg dw	0.034	0.10	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.070		mg/kg dw	0.070	0.209	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.081		mg/kg dw	0.081	0.241	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.098		mg/kg dw	0.098	0.294	09/16/2004	ake	109	177	SW 8270C
Indeno (1,2,3-cd) pyrene	<0.037		mg/kg dw	0.037	0.11	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.071		mg/kg dw	0.071	0.211	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.077		mg/kg dw	0.077	0.230	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.088		mg/kg dw	0.088	0.263	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.084		mg/kg dw	0.084	0.26	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.071		mg/kg dw	0.071	0.211	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.083		mg/kg dw	0.083	0.248	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.090		mg/kg dw	0.090	0.272	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
N-Nitrosodimethylamine	<0.133		mg/kg dw	0.133	0.398	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.040		mg/kg dw	0.040	0.122	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.099		mg/kg dw	0.099	0.298	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.045		mg/kg dw	0.045	0.137	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.060		mg/kg dw	0.060	0.18	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.134		mg/kg dw	0.134	0.402	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.088		mg/kg dw	0.088	0.263	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	102		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	65		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	53	OOC	%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.39		mg/kg dw	0.39	1.2	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.087		mg/kg dw	0.087	0.259	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.10		mg/kg dw	0.10	0.309	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.093		mg/kg dw	0.093	0.280	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.095		mg/kg dw	0.095	0.29	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.189		mg/kg dw	0.189	0.568	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.089		mg/kg dw	0.089	0.266	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.076		mg/kg dw	0.076	0.226	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.033		mg/kg dw	0.033	0.10	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.126		mg/kg dw	0.126	0.378	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.134		mg/kg dw	0.134	0.402	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.079		mg/kg dw	0.079	0.237	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.092		mg/kg dw	0.092	0.276	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.092		mg/kg dw	0.092	0.276	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.083		mg/kg dw	0.083	0.248	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.065		mg/kg dw	0.065	0.194	09/16/2004	ake	109	177	SW 8270C

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822822	SB-5 8'					09/09/2004 11:05				
Phenol-d6 (surr)	79		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	72		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	90		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822823	TB-7					09/08/2004 10:00				

VOLATILE COMPOUNDS

Benzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/13/2004	dmd		5661	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/13/2004	dmd		5661	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/13/2004	dmd		5661	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	09/13/2004	dmd		5661	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chloroethane	0.20		ug/L	0.12	0.36	09/13/2004	dmd		5661	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822823	TB-7					09/08/2004 10:00				
Chloroform	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/13/2004	dmd		5661	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30	B	ug/L	0.30	0.90	09/13/2004	dmd		5661	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/13/2004	dmd		5661	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/13/2004	dmd		5661	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/13/2004	dmd		5661	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/13/2004	dmd		5661	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/13/2004	dmd		5661	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/13/2004	dmd		5661	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/13/2004	dmd		5661	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/13/2004	dmd		5661	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822823	TB-7					09/08/2004 10:00				
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/13/2004	dmd		5661	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/13/2004	dmd		5661	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	09/13/2004	dmd		5661	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/13/2004	dmd		5661	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/13/2004	dmd		5661	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/13/2004	dmd		5661	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/13/2004	dmd		5661	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
Toluene	0.28		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/13/2004	dmd		5661	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/13/2004	dmd		5661	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/13/2004	dmd		5661	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/13/2004	dmd		5661	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/13/2004	dmd		5661	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/13/2004	dmd		5661	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/13/2004	dmd		5661	SW 8260B
Dibromofluoromethane (surr)	101		%			09/13/2004	dmd		5661	SW 8260B
Toluene-d8 (surr)	95		%			09/13/2004	dmd		5661	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/13/2004	dmd		5661	SW 8260B
VOA Preservation pH	<2		units	NA		09/14/2004	mmk		1046	SW 9041A

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822824	SB-48 2'					09/08/2004 10:45				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	98.31		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	9.9		ug/kg dw	8.1	24	09/17/2004	mnk		1049	SW 8260B
Benzene	0.94		ug/kg dw	0.56	1.68	09/17/2004	mnk		1049	SW 8260B
Bromobenzene	<0.71		ug/kg dw	0.71	2.14	09/17/2004	mnk		1049	SW 8260B
Bromochloromethane	<0.97		ug/kg dw	0.97	2.90	09/17/2004	mnk		1049	SW 8260B
Bromodichloromethane	<2.29		ug/kg dw	2.29	6.87	09/17/2004	mnk		1049	SW 8260B
Bromoform	<3.41		ug/kg dw	3.41	10.2	09/17/2004	mnk		1049	SW 8260B
Bromomethane	<4.98		ug/kg dw	4.98	14.7	09/17/2004	mnk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.86		ug/kg dw	0.86	2.03	09/17/2004	mnk		1049	SW 8260B
n-Butylbenzene	<5.1		ug/kg dw	0.48	5.1	09/17/2004	mnk		1049	SW 8260B
sec-Butylbenzene	<5.1		ug/kg dw	1.47	5.1	09/17/2004	mnk		1049	SW 8260B
tert-Butylbenzene	<5.1		ug/kg dw	0.5	5.1	09/17/2004	mnk		1049	SW 8260B
Carbon tetrachloride	<6.1		ug/kg dw	6.1	18.3	09/17/2004	mnk		1049	SW 8260B
Chlorobenzene	<0.432		ug/kg dw	0.432	1.297	09/17/2004	mnk		1049	SW 8260B
Chlorodibromomethane	<1.42		ug/kg dw	1.42	4.27	09/17/2004	mnk		1049	SW 8260B
Chloroethane	<0.71		ug/kg dw	0.71	2.14	09/17/2004	mnk		1049	SW 8260B
Chloroform	<0.86		ug/kg dw	0.86	2.59	09/17/2004	mnk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/17/2004	mnk		1049	SW 8260B
2-Chlorotoluene	<0.66		ug/kg dw	0.66	1.98	09/17/2004	mnk		1049	SW 8260B
4-Chlorotoluene	<0.56		ug/kg dw	0.56	1.68	09/17/2004	mnk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mnk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.00		ug/kg dw	3.00	9.00	09/17/2004	mnk		1049	SW 8260B
Dibromomethane	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mnk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mnk		1049	SW 8260B

ANALYTICAL REPORT

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09/28/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822824	SB-48 2'					09/08/2004 10:45				
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.66		ug/kg dw	0.66	1.98	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.97		ug/kg dw	0.97	2.90	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.81		ug/kg dw	0.81	2.4	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.341		ug/kg dw	0.341	1.02	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.97		ug/kg dw	0.97	2.90	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.31	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.86		ug/kg dw	0.86	2.59	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.10	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.86		ug/kg dw	0.86	2.59	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.81		ug/kg dw	0.81	2.44	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	0.93		ug/kg dw	0.56	1.68	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<2.95		ug/kg dw	2.95	8.85	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.56		ug/kg dw	0.56	2.03	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.10	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<51		ug/kg dw	7.1	51	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.71		ug/kg dw	0.71	2.03	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.83		ug/kg dw	4.83	14.4	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.1		ug/kg dw	0.81	5.1	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.1		ug/kg dw	0.56	5.1	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.16	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.83		ug/kg dw	1.83	5.49	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822824	SB-48 2'					09/08/2004 10:45				
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
Tetrachloroethene	<0.66	B	ug/kg dw	0.66	1.98	09/17/2004	mmk		1049	SW 8260B
Toluene	2.02		ug/kg dw	0.71	2.14	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.1		ug/kg dw	1.6	5.1	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.1		ug/kg dw	0.33	5.1	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	<1.07		ug/kg dw	1.07	3.20	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	36.7		ug/kg dw	0.97	2.90	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.45		ug/kg dw	0.45	1.36	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.92		ug/kg dw	0.92	2.7	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.1	LC	ug/kg dw	1.4	5.1	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.1		ug/kg dw	2.3	5.1	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.76		ug/kg dw	0.76	2.29	09/17/2004	mmk		1049	SW 8260B
Xylenes, Total	<5.1		ug/kg dw	1.6	5.1	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	102		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	105		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	95		%			09/17/2004	mmk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822825	SB-48 4'					09/08/2004 11:05				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	96.32		%	0.01	0.01	09/10/2004	sas		2753	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	29.1		ug/kg dw	8.3	25	09/17/2004	mmk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822825	SB-48 4'					09/08/2004 11:05				
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk	1049	SW 8260B	
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk	1049	SW 8260B	
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk	1049	SW 8260B	
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk	1049	SW 8260B	
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk	1049	SW 8260B	
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/17/2004	mmk	1049	SW 8260B	
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk	1049	SW 8260B	
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk	1049	SW 8260B	
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/17/2004	mmk	1049	SW 8260B	
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk	1049	SW 8260B	
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk	1049	SW 8260	
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk	1049	SW 8260B	
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/17/2004	mmk	1049	SW 8260B	
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk	1049	SW 8260B	
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk	1049	SW 8260B	
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.03	09/17/2004	mmk	1049	SW 8260B	
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/17/2004	mmk	1049	SW 8260B	
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk	1049	SW 8260B	
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk	1049	SW 8260B	
Methylene chloride	<52		ug/kg dw	7.3	52	09/17/2004	mmk	1049	SW 8260B	
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/17/2004	mmk	1049	SW 8260B	
MTBE	<4.93		ug/kg dw	4.93	14.7	09/17/2004	mmk	1049	SW 8260B	
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	mmk	1049	SW 8260B	
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	mmk	1049	SW 8260B	
Styrene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	mmk	1049	SW 8260B	
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/17/2004	mmk	1049	SW 8260B	

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822825	SB-48 4'					09/08/2004 11:05				
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
Tetrachloroethene	0.70	B	ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
Toluene	1.0		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	mmk		1049	SW 8260B
1,1,1-Trichloroethane	1.14		ug/kg dw	1.09	3.27	09/17/2004	mmk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	mmk		1049	SW 8260B
Trichloroethylene	27.9		ug/kg dw	0.99	2.96	09/17/2004	mmk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	mmk		1049	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	mmk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.5	5.2	09/17/2004	mmk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	99		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	110		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	95		%			09/17/2004	mmk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822826	SB-47 2'					09/08/2004 11:20				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	96.20		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	38.3		ug/kg dw	8.3	25	09/17/2004	mmk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.02	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.442		ug/kg dw	0.442	1.325	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.37	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.07		ug/kg dw	3.07	9.20	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822826	SB-47 2'					09/08/2004 11:20				
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.96	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.72	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.94		ug/kg dw	4.94	14.8	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822826	SB-47 2'					09/08/2004 11:20				
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mnk		1049	SW 8260B
Tetrachloroethene	<0.68	B	ug/kg dw	0.68	2.03	09/17/2004	mnk		1049	SW 8260B
Toluene	0.73		ug/kg dw	0.73	2.18	09/17/2004	mnk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mnk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	mnk		1049	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.27	09/17/2004	mnk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	mnk		1049	SW 8260B
Trichloroethylene	1.06		ug/kg dw	0.99	2.96	09/17/2004	mnk		1049	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	mnk		1049	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/17/2004	mnk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.5	5.2	09/17/2004	mnk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mnk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/17/2004	mnk		1049	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mnk		1049	SW 8260B
4-Bromofluorobenzene (surr)	97		%			09/17/2004	mnk		1049	SW 8260B
Dibromofluoromethane (surr)	105		%			09/17/2004	mnk		1049	SW 8260B
Toluene-d8 (surr)	93		%			09/17/2004	mnk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822827	SB-47 4'					09/08/2004 11:35				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	96.63		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	38.3		ug/kg dw	8.3	25	09/17/2004	mmk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.33		ug/kg dw	2.33	6.99	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.47		ug/kg dw	3.47	10.3	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.07		ug/kg dw	5.07	15.0	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.07	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.440		ug/kg dw	0.440	1.319	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.35	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.05		ug/kg dw	3.05	9.16	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822827	SB-47 4'					09/08/2004 11:35				
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.347		ug/kg dw	0.347	1.03	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/17/2004	mmk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
Hexachlorobutadiene	<3.00		ug/kg dw	3.00	9.00	09/17/2004	mmk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.07	09/17/2004	mmk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	mmk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/17/2004	mmk		1049	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.07	09/17/2004	mmk		1049	SW 8260B
MTBE	<4.92		ug/kg dw	4.92	14.7	09/17/2004	mmk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	mmk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	mmk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	mmk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.59	09/17/2004	mmk		1049	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
822827	SB-47 4'								09/08/2004 11:35	
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk	1049	SW 8260B	
Tetrachloroethene	<0.67	B	ug/kg dw	0.67	2.02	09/17/2004	mmk	1049	SW 8260B	
Toluene	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mmk	1049	SW 8260B	
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk	1049	SW 8260B	
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	mmk	1049	SW 8260B	
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.26	09/17/2004	mmk	1049	SW 8260B	
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	mmk	1049	SW 8260B	
Trichloroethylene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk	1049	SW 8260B	
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/17/2004	mmk	1049	SW 8260B	
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	mmk	1049	SW 8260B	
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.4	5.2	09/17/2004	mmk	1049	SW 8260B	
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk	1049	SW 8260B	
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk	1049	SW 8260B	
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mmk	1049	SW 8260B	
4-Bromofluorobenzene (surr)	98		%			09/17/2004	mmk	1049	SW 8260B	
Dibromofluoromethane (surr)	106		%			09/17/2004	mmk	1049	SW 8260B	
Toluene-d8 (surr)	94		%			09/17/2004	mmk	1049	SW 8260B	

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822828	SB-46 2'					09/08/2004 11:50				
Solids, Total	97.88		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Prep, PCB's Non-aqueous	COMPLETE					09/16/2004	acm	833		SW 3540
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1221	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1232	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1242	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1248	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1254	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1260	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1268	<0.26		mg/kg dw		0.26	09/24/2004	kak	833	1891	SW 8082
Decachlorobiphenyl (Surr.)	107		%	1	1	09/24/2004	kak	833	1891	SW 8082
Tetrachlorometaxylene (Surr.)	87		%	1	1	09/24/2004	kak	833	1891	SW 8082
Extraction Prep, soil	COMPLETE					09/13/2004	acm	3182		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	10.9		mg/kg		10	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Diesel	<10		mg/kg		10	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Gasoline	<10		mg/kg		10	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Motor Oil	10.9		mg/kg		10	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
N-Octacosane (Surr.)	123		%	1.0	1.0	09/19/2004	ljm	3182	5417	IA-OA2/S-8015

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822829	SB-46 4'					09/08/2004 12:10				
Extraction Prep, soil	COMPLETE					09/13/2004	acm	3182		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	343		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
Diesel	<100		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
Gasoline	<100		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
Motor Oil	343		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
N-Octacosane (Surr.)	216	p	%	1.0	1.0	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	96.73		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/14/2004	acm	108		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	35.0		ug/kg dw	8.3	25	09/17/2004	mnk		1049	SW 8260B
Benzene	0.72		ug/kg dw	0.57	1.71	09/17/2004	mnk		1049	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mnk		1049	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mnk		1049	SW 8260B
Bromodichloromethane	<2.33		ug/kg dw	2.33	6.98	09/17/2004	mnk		1049	SW 8260B
Bromoform	<3.46		ug/kg dw	3.46	10.3	09/17/2004	mnk		1049	SW 8260B
Bromomethane	<5.07		ug/kg dw	5.07	15.0	09/17/2004	mnk		1049	SW 8260B

p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.07	09/17/2004	mmk		1049	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.50	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.6	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.439		ug/kg dw	0.439	1.318	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.34	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.17	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.05		ug/kg dw	3.05	9.15	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.346		ug/kg dw	0.346	1.03	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.95	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.64	09/17/2004	mmk		1049	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/17/2004	munk		1049	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.64	09/17/2004	munk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.48	09/17/2004	munk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.33	09/17/2004	munk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/17/2004	munk		1049	SW 8260B
Hexachlorobutadiene	<3.00		ug/kg dw	3.00	8.99	09/17/2004	munk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.07	09/17/2004	munk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/17/2004	munk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/17/2004	munk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/17/2004	munk		1049	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.07	09/17/2004	munk		1049	SW 8260B
TBCE	<4.91		ug/kg dw	4.91	14.7	09/17/2004	munk		1049	SW 8260B
naphthalene	<5.2		ug/kg dw	0.83	5.2	09/17/2004	munk		1049	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	munk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/17/2004	munk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.86		ug/kg dw	1.86	5.58	09/17/2004	munk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
Tetrachloroethene	<0.67	B	ug/kg dw	0.67	2.02	09/17/2004	munk		1049	SW 8260B
Toluene	0.88		ug/kg dw	0.72	2.17	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/17/2004	munk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	munk		1049	SW 8260B
1,1,1-Trichloroethane	<1.09		ug/kg dw	1.09	3.26	09/17/2004	munk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	munk		1049	SW 8260B
Trichloroethylene	9.70		ug/kg dw	0.98	2.95	09/17/2004	munk		1049	SW 8260B
Trichlorofluoromethane	<0.45		ug/kg dw	0.45	1.39	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	munk		1049	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.4	5.2	09/17/2004	mnk		1049	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mnk		1049	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.33	09/17/2004	mnk		1049	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/17/2004	mnk		1049	SW 8260B
4-Bromofluorobenzene (surr)	98		%			09/17/2004	mnk		1049	SW 8260B
Dibromofluoromethane (surr)	108		%			09/17/2004	mnk		1049	SW 8260B
Toluene-d8 (surr)	96		%			09/17/2004	mnk		1049	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.32		mg/kg dw	0.32	0.957	09/15/2004	ake	108	175	SW 8270C
Acenaphthylene	<0.30		mg/kg dw	0.30	0.896	09/15/2004	ake	108	175	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.592	09/15/2004	ake	108	175	SW 8270C
Benzydine	<0.50	B	mg/kg dw	0.50	1.49	09/15/2004	ake	108	175	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.531	09/15/2004	ake	108	175	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.562	09/15/2004	ake	108	175	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.744	09/15/2004	ake	108	175	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.744	09/15/2004	ake	108	175	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.592	09/15/2004	ake	108	175	SW 8270C
Benzyl alcohol	<0.40		mg/kg dw	0.40	1.24	09/15/2004	ake	108	175	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.653	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethyl)ether	<0.39		mg/kg dw	0.39	1.19	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethoxy)methane	<0.37		mg/kg dw	0.37	1.13	09/15/2004	ake	108	175	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.49	09/15/2004	ake	108	175	SW 8270C
Bis(2chloroisopropyl)ether	<0.43		mg/kg dw	0.43	1.30	09/15/2004	ake	108	175	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.730	09/15/2004	ake	108	175	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.592	09/15/2004	ake	108	175	SW 8270C
4-Chloroaniline	<0.527		mg/kg dw	0.527	1.58	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
2-Chloronaphthalene	<0.35		mg/kg dw	0.35	1.0	09/15/2004	ake	108	175	SW 8270C
4-Chlorophenylphenyl ether	<0.28		mg/kg dw	0.28	0.835	09/15/2004	ake	108	175	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.45	09/15/2004	ake	108	175	SW 8270C
Dibenzo(a,h)anthracene	<0.38		mg/kg dw	0.38	1.18	09/15/2004	ake	108	175	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.714	09/15/2004	ake	108	175	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.653	09/15/2004	ake	108	175	SW 8270C
1,2-Dichlorobenzene	<0.522		mg/kg dw	0.522	1.56	09/15/2004	ake	108	175	SW 8270C
1,3-Dichlorobenzene	<0.47		mg/kg dw	0.47	1.40	09/15/2004	ake	108	175	SW 8270C
1,4-Dichlorobenzene	<0.42		mg/kg dw	0.42	1.29	09/15/2004	ake	108	175	SW 8270C
3,3-Dichlorobenzidine	<0.542		mg/kg dw	0.542	1.62	09/15/2004	ake	108	175	SW 8270C
Diethyl phthalate	<0.25	B	mg/kg dw	0.25	0.714	09/15/2004	ake	108	175	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.638	09/15/2004	ake	108	175	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.714	09/15/2004	ake	108	175	SW 8270C
2,6-Dinitrotoluene	<0.33		mg/kg dw	0.33	1.00	09/15/2004	ake	108	175	SW 8270C
Di-n-octylphthalate	<0.30		mg/kg dw	0.30	0.91	09/15/2004	ake	108	175	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.547	09/15/2004	ake	108	175	SW 8270C
Fluorene	<0.26		mg/kg dw	0.26	0.805	09/15/2004	ake	108	175	SW 8270C
Hexachlorobenzene	<0.14		mg/kg dw	0.14	0.44	09/15/2004	ake	108	175	SW 8270C
Hexachlorocyclopentadiene	<0.29		mg/kg dw	0.29	0.882	09/15/2004	ake	108	175	SW 8270C
Hexachloro-1,3-butadiene	<0.34		mg/kg dw	0.34	1.01	09/15/2004	ake	108	175	SW 8270C
Hexachloroethane	<0.41		mg/kg dw	0.41	1.25	09/15/2004	ake	108	175	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.47	09/15/2004	ake	108	175	SW 8270C
Isophorone	<0.30		mg/kg dw	0.30	0.896	09/15/2004	ake	108	175	SW 8270C
2-Methylnaphthalene	<0.32		mg/kg dw	0.32	0.973	09/15/2004	ake	108	175	SW 8270C
Naphthalene	<0.36		mg/kg dw	0.36	1.12	09/15/2004	ake	108	175	SW 8270C
2-Nitroaniline	<0.35		mg/kg dw	0.35	1.0	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
3-Nitroaniline	<0.30		mg/kg dw	0.30	0.896	09/15/2004	ake	108	175	SW 8270C
4-Nitroaniline	<0.34		mg/kg dw	0.34	1.05	09/15/2004	ake	108	175	SW 8270C
Nitrobenzene	<0.38		mg/kg dw	0.38	1.16	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodimethylamine	<0.562		mg/kg dw	0.562	1.69	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.517	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodi-n-propylamine	<0.42		mg/kg dw	0.42	1.26	09/15/2004	ake	108	175	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.578	09/15/2004	ake	108	175	SW 8270C
Pyrene	<0.25		mg/kg dw	0.25	0.77	09/15/2004	ake	108	175	SW 8270C
Pyridine	<0.568		mg/kg dw	0.568	1.71	09/15/2004	ake	108	175	SW 8270C
1,2,4-Trichlorobenzene	<0.36		mg/kg dw	0.36	1.12	09/15/2004	ake	108	175	SW 8270C
Nitrobenzene-d5 (surr)	65	OOO	%			09/15/2004	ake	108	175	SW 8270C
2-Fluorobiphenyl (surr)	82	OOO	%			09/15/2004	ake	108	175	SW 8270C
Terphenyl-d14 (surr)	111	OOO	%			09/15/2004	ake	108	175	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.1	09/15/2004	ake	108	175	SW 8270C
4-Chloro-3-methylphenol	<0.36		mg/kg dw	0.36	1.10	09/15/2004	ake	108	175	SW 8270C
2-chlorophenol	<0.43		mg/kg dw	0.43	1.30	09/15/2004	ake	108	175	SW 8270C
2-Methylphenol	<0.39		mg/kg dw	0.39	1.19	09/15/2004	ake	108	175	SW 8270C
4-Methylphenol	<0.40		mg/kg dw	0.40	1.2	09/15/2004	ake	108	175	SW 8270C
Cresols, Total	<0.800		mg/kg dw	0.800	2.40	09/15/2004	ake	108	175	SW 8270C
2,4-Dichlorophenol	<0.37		mg/kg dw	0.37	1.13	09/15/2004	ake	108	175	SW 8270C
2,4-Dimethylphenol	<0.32		mg/kg dw	0.32	0.957	09/15/2004	ake	108	175	SW 8270C
2,4-Dinitrophenol	<0.14		mg/kg dw	0.14	0.42	09/15/2004	ake	108	175	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.531		mg/kg dw	0.531	1.60	09/15/2004	ake	108	175	SW 8270C
2-Nitrophenol	<0.568		mg/kg dw	0.568	1.71	09/15/2004	ake	108	175	SW 8270C
4-Nitrophenol	<0.33		mg/kg dw	0.33	1.00	09/15/2004	ake	108	175	SW 8270C
Pentachlorophenol	<0.38	L	mg/kg dw	0.38	1.18	09/15/2004	ake	108	175	SW 8270C

L - LCS recovery is outside of control limits.

OOO - Surrogate recovery outside QC limits due to matrix interferences.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822830	SB-54 2'					09/08/2004 12:45				
Phenol	<0.38		mg/kg dw	0.38	1.18	09/15/2004	ake	108	175	SW 8270C
2,4,5-Trichlorophenol	<0.34		mg/kg dw	0.34	1.05	09/15/2004	ake	108	175	SW 8270C
2,4,6-Trichlorophenol	<0.27		mg/kg dw	0.27	0.821	09/15/2004	ake	108	175	SW 8270C
Phenol-d6 (surr)	76	OOC	%			09/15/2004	ake	108	175	SW 8270C
2-Fluorophenol (surr)	61	OOC	%			09/15/2004	ake	108	175	SW 8270C
Tribromophenol (surr)	107	OOC	%			09/15/2004	ake	108	175	SW 8270C
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
5035 VOC Preservation	Complete					09/08/2004	sml		13	SW 846 - 5035
Solids, Total	97.07		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/14/2004	acm	108		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	14.7		ug/kg dw	8.2	25	09/17/2004	mmk		1049	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.70	09/17/2004	mmk		1049	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.16	09/17/2004	mmk		1049	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.94	09/17/2004	mmk		1049	SW 8260B
Bromodichloromethane	<2.32		ug/kg dw	2.32	6.95	09/17/2004	mmk		1049	SW 8260B
Bromoform	<3.45		ug/kg dw	3.45	10.3	09/17/2004	mmk		1049	SW 8260B
Bromomethane	<5.05		ug/kg dw	5.05	14.9	09/17/2004	mmk		1049	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.06	09/17/2004	mmk		1049	SW 8260B

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
n-Butylbenzene	<5.2		ug/kg dw	0.48	5.2	09/17/2004	mmk		1049	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.49	5.2	09/17/2004	mmk		1049	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/17/2004	mmk		1049	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.5	09/17/2004	mmk		1049	SW 8260B
Chlorobenzene	<0.438		ug/kg dw	0.438	1.313	09/17/2004	mmk		1049	SW 8260B
Chlorodibromomethane	<1.44		ug/kg dw	1.44	4.33	09/17/2004	mmk		1049	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.16	09/17/2004	mmk		1049	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.63	09/17/2004	mmk		1049	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/17/2004	mmk		1049	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.01	09/17/2004	mmk		1049	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.70	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/17/2004	mmk		1049	SW 8260B
1,2-Dibromoethane (EDB)	<3.04		ug/kg dw	3.04	9.12	09/17/2004	mmk		1049	SW 8260B
Dibromomethane	<0.77		ug/kg dw	0.77	2.32	09/17/2004	mmk		1049	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.01	09/17/2004	mmk		1049	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.94	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethane	<0.82		ug/kg dw	0.82	2.5	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	mmk		1049	SW 8260B
1,1-Dichloroethene	<0.345		ug/kg dw	0.345	1.03	09/17/2004	mmk		1049	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.94	09/17/2004	mmk		1049	SW 8260B
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.32	09/17/2004	mmk		1049	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/17/2004	mmk		1049	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.63	09/17/2004	mmk		1049	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.11	09/17/2004	mmk		1049	SW 8260

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.63	09/17/2004	munk		1049	SW 8260B
cis-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.47	09/17/2004	munk		1049	SW 8260B
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.32	09/17/2004	munk		1049	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.70	09/17/2004	munk		1049	SW 8260B
Hexachlorobutadiene	<2.99		ug/kg dw	2.99	8.96	09/17/2004	munk		1049	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.06	09/17/2004	munk		1049	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.11	09/17/2004	munk		1049	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/17/2004	munk		1049	SW 8260B
Methylene chloride	<52		ug/kg dw	7.2	52	09/17/2004	munk		1049	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.06	09/17/2004	munk		1049	SW 8260B
MTBE	<4.89		ug/kg dw	4.89	14.6	09/17/2004	munk		1049	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.82	5.2	09/17/2004	munk		1049	SW 8260B
m-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/17/2004	munk		1049	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.17	09/17/2004	munk		1049	SW 8260B
1,1,1,2-Tetrachloroethane	<1.85		ug/kg dw	1.85	5.56	09/17/2004	munk		1049	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/17/2004	munk		1049	SW 8260B
Tetrachloroethene	<0.67	B	ug/kg dw	0.67	2.01	09/17/2004	munk		1049	SW 8260B
Toluene	<0.72		ug/kg dw	0.72	2.16	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.6	5.2	09/17/2004	munk		1049	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/17/2004	munk		1049	SW 8260B
1,1,1-Trichloroethane	<1.08		ug/kg dw	1.08	3.25	09/17/2004	munk		1049	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/17/2004	munk		1049	SW 8260B
Trichloroethylene	<0.98		ug/kg dw	0.98	2.94	09/17/2004	munk		1049	SW 8260B
Trichlorofluoromethane	<0.45		ug/kg dw	0.45	1.38	09/17/2004	munk		1049	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/17/2004	munk		1049	SW 8260B
1,2,4-Trimethylbenzene	<5.2	LC	ug/kg dw	1.4	5.2	09/17/2004	munk		1049	SW 8260B

B - This analyte was detected in the method blank.
 LC - LCS/LCSD relative percent difference is out of control.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/17/2004	mmk		1049	SW 8260B
Vinyl Chloride	<0.77		ug/kg dw	0.77	2.32	09/17/2004	mmk		1049	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.6	5.2	09/17/2004	mmk		1049	SW 8260B
4-Bromofluorobenzene (surr)	100		%			09/17/2004	mmk		1049	SW 8260B
Dibromofluoromethane (surr)	104		%			09/17/2004	mmk		1049	SW 8260B
Toluene-d8 (surr)	96		%			09/17/2004	mmk		1049	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.191	09/15/2004	ake	108	175	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.178	09/15/2004	ake	108	175	SW 8270C
Anthracene	<0.039		mg/kg dw	0.039	0.118	09/15/2004	ake	108	175	SW 8270C
Benzidine	<0.099	B	mg/kg dw	0.099	0.297	09/15/2004	ake	108	175	SW 8270C
Benzo(a)anthracene	<0.035		mg/kg dw	0.035	0.106	09/15/2004	ake	108	175	SW 8270C
Benzo(b)fluoranthene	<0.037		mg/kg dw	0.037	0.112	09/15/2004	ake	108	175	SW 8270C
Benzo(k)fluoranthene	<0.049		mg/kg dw	0.049	0.148	09/15/2004	ake	108	175	SW 8270C
Benzo(a)pyrene	<0.049		mg/kg dw	0.049	0.148	09/15/2004	ake	108	175	SW 8270C
Benzo(ghi)perylene	<0.039		mg/kg dw	0.039	0.118	09/15/2004	ake	108	175	SW 8270C
Benzyl alcohol	<0.081		mg/kg dw	0.081	0.245	09/15/2004	ake	108	175	SW 8270C
Benzyl butyl phthalate	<0.043		mg/kg dw	0.043	0.130	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethyl)ether	<0.078		mg/kg dw	0.078	0.236	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethoxy)methane	<0.075		mg/kg dw	0.075	0.225	09/15/2004	ake	108	175	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.032		mg/kg dw	0.032	0.097	09/15/2004	ake	108	175	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.261	09/15/2004	ake	108	175	SW 8270C
4-Bromophenyl phenyl ether	<0.048		mg/kg dw	0.048	0.145	09/15/2004	ake	108	175	SW 8270C
Carbazole	<0.039		mg/kg dw	0.039	0.118	09/15/2004	ake	108	175	SW 8270C
4-Chloroaniline	<0.105		mg/kg dw	0.105	0.315	09/15/2004	ake	108	175	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.22	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.167	09/15/2004	ake	108	175	SW 8270C
Chrysene	<0.030		mg/kg dw	0.030	0.091	09/15/2004	ake	108	175	SW 8270C
Dibenzo(a,h)anthracene	<0.077		mg/kg dw	0.077	0.233	09/15/2004	ake	108	175	SW 8270C
Dibenzofuran	<0.047		mg/kg dw	0.047	0.142	09/15/2004	ake	108	175	SW 8270C
Di-n-butylphthalate	<0.043		mg/kg dw	0.043	0.130	09/15/2004	ake	108	175	SW 8270C
1,2-Dichlorobenzene	<0.104		mg/kg dw	0.104	0.312	09/15/2004	ake	108	175	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.278	09/15/2004	ake	108	175	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.258	09/15/2004	ake	108	175	SW 8270C
3,3-Dichlorobenzidine	<0.108		mg/kg dw	0.108	0.325	09/15/2004	ake	108	175	SW 8270C
Diethyl phthalate	<0.047	B	mg/kg dw	0.047	0.142	09/15/2004	ake	108	175	SW 8270C
Dimethyl phthalate	<0.042		mg/kg dw	0.042	0.127	09/15/2004	ake	108	175	SW 8270C
2,4-Dinitrotoluene	<0.047		mg/kg dw	0.047	0.142	09/15/2004	ake	108	175	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.200	09/15/2004	ake	108	175	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/15/2004	ake	108	175	SW 8270C
Fluoranthene	<0.036		mg/kg dw	0.036	0.109	09/15/2004	ake	108	175	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.161	09/15/2004	ake	108	175	SW 8270C
Hexachlorobenzene	<0.029		mg/kg dw	0.029	0.088	09/15/2004	ake	108	175	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.176	09/15/2004	ake	108	175	SW 8270C
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.203	09/15/2004	ake	108	175	SW 8270C
Hexachloroethane	<0.082		mg/kg dw	0.082	0.248	09/15/2004	ake	108	175	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.031		mg/kg dw	0.031	0.094	09/15/2004	ake	108	175	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.178	09/15/2004	ake	108	175	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.194	09/15/2004	ake	108	175	SW 8270C
Naphthalene	<0.074		mg/kg dw	0.074	0.221	09/15/2004	ake	108	175	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.22	09/15/2004	ake	108	175	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.178	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822831	SB-54 10'					09/08/2004 13:10				
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.209	09/15/2004	ake	108	175	SW 8270C
Nitrobenzene	<0.076		mg/kg dw	0.076	0.230	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodimethylamine	<0.112		mg/kg dw	0.112	0.336	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodiphenylamine	<0.034		mg/kg dw	0.034	0.103	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodi-n-propylamine	<0.083		mg/kg dw	0.083	0.251	09/15/2004	ake	108	175	SW 8270C
Phenanthrene	<0.038		mg/kg dw	0.038	0.115	09/15/2004	ake	108	175	SW 8270C
Pyrene	<0.050		mg/kg dw	0.050	0.15	09/15/2004	ake	108	175	SW 8270C
Pyridine	<0.113		mg/kg dw	0.113	0.339	09/15/2004	ake	108	175	SW 8270C
1,2,4-Trichlorobenzene	<0.074		mg/kg dw	0.074	0.221	09/15/2004	ake	108	175	SW 8270C
Nitrobenzene-d5 (surr)	70		§			09/15/2004	ake	108	175	SW 8270C
2-Fluorobiphenyl (surr)	71		§			09/15/2004	ake	108	175	SW 8270C
Terphenyl-d14 (surr)	104		§			09/15/2004	ake	108	175	SW 8270C
Benzoic Acid	<0.33		mg/kg dw	0.33	1.0	09/15/2004	ake	108	175	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.218	09/15/2004	ake	108	175	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.261	09/15/2004	ake	108	175	SW 8270C
2-Methylphenol	<0.078		mg/kg dw	0.078	0.236	09/15/2004	ake	108	175	SW 8270C
4-Methylphenol	<0.080		mg/kg dw	0.080	0.25	09/15/2004	ake	108	175	SW 8270C
Cresols, Total	<0.160		mg/kg dw	0.160	0.479	09/15/2004	ake	108	175	SW 8270C
2,4-Dichlorophenol	<0.075		mg/kg dw	0.075	0.225	09/15/2004	ake	108	175	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.191	09/15/2004	ake	108	175	SW 8270C
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.084	09/15/2004	ake	108	175	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.106		mg/kg dw	0.106	0.318	09/15/2004	ake	108	175	SW 8270C
2-Nitrophenol	<0.113		mg/kg dw	0.113	0.339	09/15/2004	ake	108	175	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.200	09/15/2004	ake	108	175	SW 8270C
Pentachlorophenol	<0.077	L	mg/kg dw	0.077	0.233	09/15/2004	ake	108	175	SW 8270C
Phenol	<0.077		mg/kg dw	0.077	0.233	09/15/2004	ake	108	175	SW 8270C

L - LCS recovery is outside of control limits.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822831	SAMPLE DESCRIPTION SB-54 10'					DATE-TIME TAKEN 09/08/2004 13:10				
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.209	09/15/2004	ake	108	175	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.164	09/15/2004	ake	108	175	SW 8270C
Phenol-d6 (surr)	71		%			09/15/2004	ake	108	175	SW 8270C
2-Fluorophenol (surr)	66		%			09/15/2004	ake	108	175	SW 8270C
Tribromophenol (surr)	108		%			09/15/2004	ake	108	175	SW 8270C

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822832	SAMPLE DESCRIPTION SB-6 2'					DATE-TIME TAKEN 09/08/2004 14:45				
Cyanide, mdl	0.58		mg/kg dw	0.11	0.51	09/15/2004	tlz		870	SW 9012
Solids, Total	97.53		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Arsenic, (GFAA) mdl	1.63		mg/kg dw	0.22	1.0	09/14/2004	mrn	911	631	SW 7060A
Mercury, mdl	0.0126	B	mg/kg dw	0.0012	0.0044	09/15/2004	heh		2063	SW 7471A
GFAA Metals Digestion	1.028		g			09/14/2004	tdo	911		SW 3050 B
ICP Metals Prep (Solid)	1.023		g			09/17/2004	tdo	1506		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	46		mg/kg dw	0.200	0.51	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	1.2		mg/kg dw	0.25	0.86	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	11		mg/kg dw	0.40	1.0	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	55		mg/kg dw	5.1	5.1	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.58		mg/kg dw	0.58	1.0	09/20/2004	llw	1506	636	SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822833	SB-6 4'					09/08/2004 15:00				
Cyanide, mdl	8.6		mg/kg dw	0.14	0.64	09/15/2004	tlz		870	SW 9012
Solids, Total	77.80		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Arsenic, (GFAA) mdl	19.3		mg/kg dw	0.27	1.3	09/14/2004	mrm	911	631	SW 7060A
Mercury, mdl	0.0049	B	mg/kg dw	0.0015	0.0055	09/15/2004	heh		2063	SW 7471A
GFAA Metals Digestion	1.086		g			09/14/2004	tdo	911		SW 3050 B
ICP Metals Prep (Solid)	1.044		g			09/17/2004	tdo	1506		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	951		mg/kg dw	0.251	0.64	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	32		mg/kg dw	0.31	1.1	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	110		mg/kg dw	0.50	1.3	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	219		mg/kg dw	6.4	6.4	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<49		mg/kg dw	9.6	9.6	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	5.1		mg/kg dw	0.73	1.3	09/20/2004	llw	1506	636	SW 6010B

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822834	SB-6 10'					09/08/2004 15:40				
Solids, Total	84.26		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/14/2004	acm	108		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	2.72		mg/kg dw	0.075	0.224	09/15/2004	ake	108	175	SW 8270C
Acenaphthylene	<0.070		mg/kg dw	0.070	0.210	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822834	SB-6 10'					09/08/2004 15:40				
Anthracene	0.32		mg/kg dw	0.046	0.139	09/15/2004	ake	108	175	SW 8270C
Benzidine	<0.12	B	mg/kg dw	0.12	0.349	09/15/2004	ake	108	175	SW 8270C
Benzo(a)anthracene	0.19		mg/kg dw	0.042	0.125	09/15/2004	ake	108	175	SW 8270C
Benzo(b)fluoranthene	0.08		mg/kg dw	0.044	0.132	09/15/2004	ake	108	175	SW 8270C
Benzo(k)fluoranthene	0.1		mg/kg dw	0.058	0.174	09/15/2004	ake	108	175	SW 8270C
Benzo(a)pyrene	0.06		mg/kg dw	0.058	0.174	09/15/2004	ake	108	175	SW 8270C
Benzo(ghi)perylene	<0.046		mg/kg dw	0.046	0.139	09/15/2004	ake	108	175	SW 8270C
Benzyl alcohol	<0.096		mg/kg dw	0.096	0.288	09/15/2004	ake	108	175	SW 8270C
Benzyl butyl phthalate	<0.051		mg/kg dw	0.051	0.153	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethyl)ether	<0.093		mg/kg dw	0.093	0.278	09/15/2004	ake	108	175	SW 8270C
Bis(2-chloroethoxy)methane	<0.088		mg/kg dw	0.088	0.263	09/15/2004	ake	108	175	SW 8270C
Bis(2-ethylhexyl)phthalate	0.26		mg/kg dw	0.038	0.11	09/15/2004	ake	108	175	SW 8270C
Bis(2chloroisopropyl)ether	<0.10		mg/kg dw	0.10	0.306	09/15/2004	ake	108	175	SW 8270C
4-Bromophenyl phenyl ether	<0.057		mg/kg dw	0.057	0.171	09/15/2004	ake	108	175	SW 8270C
Carbazole	<0.046		mg/kg dw	0.046	0.139	09/15/2004	ake	108	175	SW 8270C
4-Chloroaniline	<0.123		mg/kg dw	0.123	0.370	09/15/2004	ake	108	175	SW 8270C
2-Chloronaphthalene	<0.083		mg/kg dw	0.083	0.25	09/15/2004	ake	108	175	SW 8270C
4-Chlorophenylphenyl ether	<0.065		mg/kg dw	0.065	0.196	09/15/2004	ake	108	175	SW 8270C
Chrysene	0.17		mg/kg dw	0.036	0.11	09/15/2004	ake	108	175	SW 8270C
Dibenzo(a,h)anthracene	<0.091		mg/kg dw	0.091	0.274	09/15/2004	ake	108	175	SW 8270C
Dibenzofuran	2.23		mg/kg dw	0.056	0.167	09/15/2004	ake	108	175	SW 8270C
Di-n-butylphthalate	0.08		mg/kg dw	0.051	0.153	09/15/2004	ake	108	175	SW 8270C
1,2-Dichlorobenzene	<0.122		mg/kg dw	0.122	0.367	09/15/2004	ake	108	175	SW 8270C
1,3-Dichlorobenzene	<0.11		mg/kg dw	0.11	0.328	09/15/2004	ake	108	175	SW 8270C
1,4-Dichlorobenzene	<0.10		mg/kg dw	0.10	0.303	09/15/2004	ake	108	175	SW 8270C
3,3-Dichlorobenzidine	<0.127		mg/kg dw	0.127	0.381	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822834	SB-6 10'					09/08/2004 15:40				
Diethyl phthalate	<0.056	B	mg/kg dw	0.056	0.167	09/15/2004	ake	108	175	SW 8270C
Dimethyl phthalate	<0.050		mg/kg dw	0.050	0.150	09/15/2004	ake	108	175	SW 8270C
2,4-Dinitrotoluene	<0.056		mg/kg dw	0.056	0.167	09/15/2004	ake	108	175	SW 8270C
2,6-Dinitrotoluene	<0.078		mg/kg dw	0.078	0.235	09/15/2004	ake	108	175	SW 8270C
Di-n-octylphthalate	<0.071		mg/kg dw	0.071	0.21	09/15/2004	ake	108	175	SW 8270C
Fluoranthene	0.51		mg/kg dw	0.043	0.128	09/15/2004	ake	108	175	SW 8270C
Fluorene	0.96		mg/kg dw	0.063	0.189	09/15/2004	ake	108	175	SW 8270C
Hexachlorobenzene	<0.034		mg/kg dw	0.034	0.10	09/15/2004	ake	108	175	SW 8270C
Hexachlorocyclopentadiene	<0.069		mg/kg dw	0.069	0.207	09/15/2004	ake	108	175	SW 8270C
Hexachloro-1,3-butadiene	<0.080		mg/kg dw	0.080	0.239	09/15/2004	ake	108	175	SW 8270C
Hexachloroethane	<0.097		mg/kg dw	0.097	0.292	09/15/2004	ake	108	175	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.037		mg/kg dw	0.037	0.11	09/15/2004	ake	108	175	SW 8270C
Isophorone	<0.070		mg/kg dw	0.070	0.210	09/15/2004	ake	108	175	SW 8270C
2-Methylnaphthalene	1.78		mg/kg dw	0.076	0.228	09/15/2004	ake	108	175	SW 8270C
Naphthalene	3.81		mg/kg dw	0.087	0.260	09/15/2004	ake	108	175	SW 8270C
2-Nitroaniline	<0.083		mg/kg dw	0.083	0.25	09/15/2004	ake	108	175	SW 8270C
3-Nitroaniline	<0.070		mg/kg dw	0.070	0.210	09/15/2004	ake	108	175	SW 8270C
4-Nitroaniline	<0.082		mg/kg dw	0.082	0.246	09/15/2004	ake	108	175	SW 8270C
Nitrobenzene	<0.090		mg/kg dw	0.090	0.271	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodimethylamine	<0.132		mg/kg dw	0.132	0.395	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodiphenylamine	0.26		mg/kg dw	0.040	0.121	09/15/2004	ake	108	175	SW 8270C
N-Nitrosodi-n-propylamine	<0.099		mg/kg dw	0.099	0.296	09/15/2004	ake	108	175	SW 8270C
Phenanthrene	1.22		mg/kg dw	0.045	0.135	09/15/2004	ake	108	175	SW 8270C
Pyrene	0.42		mg/kg dw	0.059	0.18	09/15/2004	ake	108	175	SW 8270C
Pyridine	<0.133		mg/kg dw	0.133	0.399	09/15/2004	ake	108	175	SW 8270C
1,2,4-Trichlorobenzene	<0.087		mg/kg dw	0.087	0.260	09/15/2004	ake	108	175	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
822834	SB-6 10'					09/08/2004 15:40				
Nitrobenzene-d5 (surr)	101		%			09/15/2004	ake	108	175	SW 8270C
2-Fluorobiphenyl (surr)	76		%			09/15/2004	ake	108	175	SW 8270C
Terphenyl-d14 (surr)	132	OOC	%			09/15/2004	ake	108	175	SW 8270C
Benzoic Acid	<0.39		mg/kg dw	0.39	1.2	09/15/2004	ake	108	175	SW 8270C
4-Chloro-3-methylphenol	<0.085		mg/kg dw	0.085	0.256	09/15/2004	ake	108	175	SW 8270C
2-chlorophenol	<0.10		mg/kg dw	0.10	0.306	09/15/2004	ake	108	175	SW 8270C
2-Methylphenol	<0.093		mg/kg dw	0.093	0.278	09/15/2004	ake	108	175	SW 8270C
4-Methylphenol	<0.095		mg/kg dw	0.095	0.28	09/15/2004	ake	108	175	SW 8270C
Cresols, Total	<0.188		mg/kg dw	0.188	0.563	09/15/2004	ake	108	175	SW 8270C
2,4-Dichlorophenol	0.38		mg/kg dw	0.088	0.263	09/15/2004	ake	108	175	SW 8270C
2,4-Dimethylphenol	<0.075		mg/kg dw	0.075	0.224	09/15/2004	ake	108	175	SW 8270C
?,4-Dinitrophenol	<0.033		mg/kg dw	0.033	0.10	09/15/2004	ake	108	175	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.125		mg/kg dw	0.125	0.374	09/15/2004	ake	108	175	SW 8270C
2-Nitrophenol	<0.133		mg/kg dw	0.133	0.399	09/15/2004	ake	108	175	SW 8270C
4-Nitrophenol	<0.078		mg/kg dw	0.078	0.235	09/15/2004	ake	108	175	SW 8270C
Pentachlorophenol	<0.091	L	mg/kg dw	0.091	0.274	09/15/2004	ake	108	175	SW 8270C
Phenol	<0.091		mg/kg dw	0.091	0.274	09/15/2004	ake	108	175	SW 8270C
2,4,5-Trichlorophenol	<0.082		mg/kg dw	0.082	0.246	09/15/2004	ake	108	175	SW 8270C
2,4,6-Trichlorophenol	<0.064		mg/kg dw	0.064	0.192	09/15/2004	ake	108	175	SW 8270C
Phenol-d6 (surr)	87		%			09/15/2004	ake	108	175	SW 8270C
2-Fluorophenol (surr)	72		%			09/15/2004	ake	108	175	SW 8270C
Tribromophenol (surr)	100		%			09/15/2004	ake	108	175	SW 8270C

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 822835	SAMPLE DESCRIPTION SB-4 2'					DATE-TIME TAKEN 09/08/2004 15:45				
Cyanide, mdl	<0.12		mg/kg dw	0.12	0.52	09/15/2004	tlz		870	SW 9012
Solids, Total	95.38		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G

SAMPLE NO. 822836	SAMPLE DESCRIPTION SB-4 10'					DATE-TIME TAKEN 09/08/2004 16:10				
Cyanide, mdl	<0.13		mg/kg dw	0.13	0.60	09/15/2004	tlz		870	SW 9012
Solids, Total	83.46		%	0.01	0.01	09/10/2004	sas		2754	SM 2540 G

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, mdl		870	247.5	ug/L	247	100		09/15/2004
Cyanide, mdl		870	247.5	ug/L	251	101		09/15/2004
Cyanide, mdl		870	247.5	ug/L	246	99		09/15/2004
Cyanide, mdl		870	123.8	ug/L	123	99		09/15/2004
Cyanide, mdl		870	123.8	ug/L	123	99		09/15/2004
Cyanide, mdl		870	123.8	ug/L	124	100		09/15/2004
Arsenic, (GFAA) mdl		631	0.0375	mg/L	0.0393	105		09/14/2004
Mercury, mdl		2063	3.00	mg/L	3.23	108		09/15/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2802	5.00	mg/L	5.12	102		09/20/2004
Barium, (ICP) mdl		2802	5.00	mg/L	5.24	105		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.82	96		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.97	99		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	4.99	100		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	5.13	103		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	4.90	98		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	5.03	101		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.01	100		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.16	103		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5661	50.0	ug/L	49.2	98		09/13/2004
Chlorobenzene		5661	50.0	ug/L	48.3	97		09/13/2004
1,1-Dichloroethene		5661	50.0	ug/L	52.5	105		09/13/2004
Ethylbenzene		5661	50.0	ug/L	47.7	95		09/13/2004
MTBE		5661	50.0	ug/L	48.9	98		09/13/2004
1,2,4-Trimethylbenzene		5661	50.0	ug/L	47.6	95		09/13/2004
Toluene		5661	50.0	ug/L	48.6	97		09/13/2004
1,3,5-Trimethylbenzene		5661	50.0	ug/L	47.1	94		09/13/2004
Trichloroethylene		5661	50.0	ug/L	49.7	99		09/13/2004
Xylenes, Total		5661	150.0	ug/L	143	95		09/13/2004
Dibromofluoromethane (surr)		5661	100	%	99	99		09/13/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Toluene-d8 (surr)		5661	100	%	98	98		09/13/2004
4-Bromofluorobenzene (surr)		5661	100	%	99	99		09/13/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	50.0	ug/L	55.2	110		09/21/2004
Bromoform		1045	50.0	ug/L	57.3	115		09/21/2004
Chlorobenzene		1045	50.0	ug/L	52.4	105		09/21/2004
1,1-Dichloroethane		1045	50.0	ug/L	55.4	111		09/21/2004
1,1-Dichloroethene		1045	50.0	ug/L	56.8	114		09/21/2004
Ethylbenzene		1045	50.0	ug/L	52.3	105		09/21/2004
MTBE		1045	50.0	ug/L	55.3	111		09/21/2004
1,1,2,2-Tetrachloroethane		1045	50.0	ug/L	51.7	103		09/21/2004
Toluene		1045	50.0	ug/L	51.2	102		09/21/2004
Trichloroethylene		1045	50.0	ug/L	56.3	113		09/21/2004
1,2,4-Trimethylbenzene		1045	50.0	ug/L	51.7	103		09/21/2004
1,3,5-Trimethylbenzene		1045	50.0	ug/L	53.4	107		09/21/2004
Vinyl Chloride		1045	50.0	ug/L	62.4	125		09/21/2004
Xylenes, Total		1045	150.0	ug/L	154	103		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	103	103		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	98	98		09/21/2004
Toluene-d8 (surr)		1045	100	%	97	97		09/21/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1049	50.0	ug/L	49.6	99		09/16/2004
Bromoform		1049	50.0	ug/L	55.2	110		09/16/2004
Chlorobenzene		1049	50.0	ug/L	51.5	103		09/16/2004
1,1-Dichloroethane		1049	50.0	ug/L	48.9	98		09/16/2004
1,1-Dichloroethene		1049	50.0	ug/L	50.8	102		09/16/2004
Ethylbenzene		1049	50.0	ug/L	53.1	106		09/16/2004
MTBE		1049	50.0	ug/L	48.5	97		09/16/2004
1,1,2,2-Tetrachloroethane		1049	50.0	ug/L	47.0	94		09/16/2004
Toluene		1049	50.0	ug/L	50.0	100		09/16/2004
Trichloroethylene		1049	50.0	ug/L	55.2	110		09/16/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

 Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
1,2,4-Trimethylbenzene		1049	50.0	ug/L	53.9	108		09/16/2004
1,3,5-Trimethylbenzene		1049	50.0	ug/L	55.7	111		09/16/2004
Vinyl Chloride		1049	50.0	ug/L	52.3	105		09/16/2004
Xylenes, Total		1049	150.0	ug/L	157	105		09/16/2004
4-Bromofluorobenzene (surr)		1049	100	%	102	102		09/16/2004
Dibromofluoromethane (surr)		1049	100	%	97	97		09/16/2004
Toluene-d8 (surr)		1049	100	%	101	101		09/16/2004
VOA 8260 NON-AQUEOUS LRL								
BNA Soil 8270 MDL								
Acenaphthene		175	50	ug/L	52	104		09/15/2004
Bis(2-ethylhexyl)phthalate		175	50	ug/L	52	104		09/15/2004
1,4-Dichlorobenzene		175	50	ug/L	51	102		09/15/2004
2,4-Dinitrotoluene		175	50	ug/L	54	108		09/15/2004
N-Nitrosodi-n-propylamine		175	50	ug/L	52	104		09/15/2004
Pyrene		175	50	ug/L	49	98		09/15/2004
1,2,4-Trichlorobenzene		175	50	ug/L	52	104		09/15/2004
Nitrobenzene-d5 (surr)		175	50.0	%	53.2	106		09/15/2004
2-Fluorobiphenyl (surr)		175	50.0	%	50.8	102		09/15/2004
Terphenyl-d14 (surr)		175	50.0	%	49.5	99		09/15/2004
4-Chloro-3-methylphenol		175	50	ug/L	52	104		09/15/2004
2-chlorophenol		175	50	ug/L	54	108		09/15/2004
4-Nitrophenol		175	50	ug/L	54	108		09/15/2004
Pentachlorophenol		175	50	ug/L	61	122		09/15/2004
Phenol		175	50	ug/L	53	106		09/15/2004
Phenol-d6 (surr)		175	100	%	54	54		09/15/2004
2-Fluorophenol (surr)		175	100	%	52	52		09/15/2004
Tribromophenol (surr)		175	100	%	55	55		09/15/2004
BNA Soil 8270 MDL								
Acenaphthene		177	50	ug/L	52	104		09/16/2004
Bis(2-ethylhexyl)phthalate		177	50	ug/L	58	116		09/16/2004
1,4-Dichlorobenzene		177	50	ug/L	51	102		09/16/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2,4-Dinitrotoluene		177	50	ug/L	55	110		09/16/2004
N-Nitrosodi-n-propylamine		177	50	ug/L	52	104		09/16/2004
Pyrene		177	50	ug/L	57	114		09/16/2004
1,2,4-Trichlorobenzene		177	50	ug/L	52	104		09/16/2004
Nitrobenzene-d5 (surr)		177	50.0	%	52.8	106		09/16/2004
2-Fluorobiphenyl (surr)		177	50.0	%	52.2	104		09/16/2004
Terphenyl-d14 (surr)		177	50.0	%	56.2	112		09/16/2004
4-Chloro-3-methylphenol		177	50	ug/L	53	106		09/16/2004
2-chlorophenol		177	50	ug/L	54	108		09/16/2004
4-Nitrophenol		177	50	ug/L	57	114		09/16/2004
Pentachlorophenol		177	50	ug/L	58	116		09/16/2004
Phenol		177	50	ug/L	52	104		09/16/2004
Phenol-d6 (surr)		177	100	%	54	54		09/16/2004
2-Fluorophenol (surr)		177	100	%	51	51		09/16/2004
Tribromophenol (surr)		177	100	%	56	56		09/16/2004
PCB's Non-Aqueous								
PCB-1248		1891	0.64	ppm	0.66	103		09/24/2004
Decachlorobiphenyl (Surr.)		1891	100	%	106	106		09/24/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	103	103		09/24/2004
PCB's Non-Aqueous								
PCB-1221		1891	0.96	ppm	0.90	94		09/24/2004
Decachlorobiphenyl (Surr.)		1891	100	%	95	95		09/24/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	93	93		09/24/2004
PCB's Non-Aqueous								
PCB-1248		1891	0.64	ppm	0.64	100		09/25/2004
Decachlorobiphenyl (Surr.)		1891	100	%	105	105		09/25/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	102	102		09/25/2004
PCB's Non-Aqueous								
PCB-1221		1891	0.96	ppm	0.89	93		09/25/2004
Decachlorobiphenyl (Surr.)		1891	100	%	96	96		09/25/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	94	94		09/25/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5417	2,500	mg/kg	2,510	100		09/19/2004
Gasoline		5417	2,500	mg/kg	2,190	88		09/19/2004
Motor Oil		5417	2,500	mg/kg	2,680	107		09/19/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5421	2,500	mg/kg	2,520	101		09/21/2004
Gasoline		5421	2,500	mg/kg	2,280	91		09/21/2004
Motor Oil		5421	2,500	mg/kg	2,460	98		09/21/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	911	631	<0.0021		mg/L	0.21	1.0	09/14/2004
Mercury, mdl		2063	0.0013	B	mg/kg	0.0012	0.0043	09/15/2004
Barium, (ICP) mdl	1506	2802	<0.0039		mg/L	0.195	0.50	09/20/2004
Cadmium, (ICP) mdl	1506	2808	<0.0048		mg/L	0.24	0.84	09/20/2004
Chromium, (ICP) mdl	1506	2807	<0.0078		mg/L	0.39	1.0	09/20/2004
Lead, (ICP) mdl	1506	2824	<0.10		mg/L	5.0	5.0	09/20/2004
Selenium, (ICP) mdl	1506	2801	<0.15		mg/L	7.5	7.5	09/20/2004
Silver, (ICP) mdl	1506	636	<0.0114		mg/L	0.57	1.0	09/20/2004
VOLATILE COMPOUNDS								
Benzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Bromodichloromethane		5661	<0.46		ug/L	0.46	1.4	09/13/2004
Bromoform		5661	<0.38		ug/L	0.38	1.1	09/13/2004
Bromomethane		5661	<0.62		ug/L	0.62	1.9	09/13/2004
Bromobenzene		5661	<0.38		ug/L	0.38	1.1	09/13/2004
Carbon disulfide		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Bromochloromethane		5661	<0.40		ug/L	0.40	1.2	09/13/2004
Carbon tetrachloride		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Dibromomethane		5661	<0.44		ug/L	0.44	1.3	09/13/2004
Chlorobenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
n-Butylbenzene		5661	0.42	B	ug/L	0.13	0.39	09/13/2004
sec-Butylbenzene		5661	0.24	B	ug/L	0.16	0.48	09/13/2004
tert-Butylbenzene		5661	0.30	B	ug/L	0.25	0.75	09/13/2004
Chloroethane		5661	<0.12		ug/L	0.12	0.36	09/13/2004
Chloroform		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Chloromethane		5661	<0.24		ug/L	0.24	0.72	09/13/2004
2-Chlorotoluene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
4-Chlorotoluene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Chlorodibromomethane		5661	<0.42		ug/L	0.42	1.3	09/13/2004
1,2-Dibromo-3-chloropropane		5661	0.63	B	ug/L	0.30	0.90	09/13/2004
1,2-Dibromoethane (EDB)		5661	<0.42		ug/L	0.42	1.3	09/13/2004
1,2-Dichlorobenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,3-Dichlorobenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,4-Dichlorobenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004

**QUALITY CONTROL REPORT
BLANKS**

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		5661	<0.40		ug/L	0.4	1.2	09/13/2004
1,1-Dichloroethane		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,2-Dichloroethane		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Di-Isopropylether		5661	<0.32		ug/L	0.32	0.96	09/13/2004
1,3-Dichloropropane		5661	<0.25		ug/L	0.25	0.75	09/13/2004
2,2-Dichloropropane		5661	<0.73		ug/L	0.73	2.2	09/13/2004
1,1-Dichloropropene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,1-Dichloroethene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
trans-1,2-Dichloroethene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
cis-1,2-Dichloroethene		5661	<0.44		ug/L	0.44	1.3	09/13/2004
1,2-Dichloropropane		5661	<0.12		ug/L	0.12	0.36	09/13/2004
cis-1,3-Dichloropropene		5661	<0.43		ug/L	0.43	1.2	09/13/2004
trans-1,3-Dichloropropene		5661	<0.44		ug/L	0.44	1.3	09/13/2004
Hexachlorobutadiene		5661	1.72	B	ug/L	0.22	0.66	09/13/2004
Ethylbenzene		5661	<0.43		ug/L	0.43	1.3	09/13/2004
Isopropylbenzene		5661	<0.44		ug/L	0.44	1.3	09/13/2004
p-Isopropyltoluene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Hexane		5661	0.22	B	ug/L	0.18	0.54	09/13/2004
MTBE		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Methylene chloride		5661	<0.63		ug/L	0.63	1.9	09/13/2004
Napthalene		5661	2.43	B	ug/L	0.86	2.6	09/13/2004
n-Propylbenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Styrene		5661	<0.41		ug/L	0.41	1.2	09/13/2004
1,1,1,2-Tetrachloroethane		5661	<0.40		ug/L	0.40	1.2	09/13/2004
1,1,2,2-Tetrachloroethane		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,2,3-Trichlorobenzene		5661	3.46	B	ug/L	0.40	1.2	09/13/2004
1,2,4-Trichlorobenzene		5661	1.70	B	ug/L	0.25	0.75	09/13/2004
Tetrachloroethene		5661	<0.37		ug/L	0.37	1.1	09/13/2004
1,2,3-Trichloropropane		5661	<0.49		ug/L	0.49	1.5	09/13/2004
1,2,4-Trimethylbenzene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
Toluene		5661	<0.25		ug/L	0.25	0.75	09/13/2004
1,3,5-Trimethylbenzene		5661	<0.14		ug/L	0.14	0.42	09/13/2004
1,1,1-Trichloroethane		5661	<0.25		ug/L	0.25	0.75	09/13/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,2-Trichloroethane		5661	<0.10		ug/L	0.10	0.3	09/13/2004
Trichloroethylene		5661	<0.43		ug/L	0.43	1.3	09/13/2004
Trichlorofluoromethane		5661	<0.47		ug/L	0.47	1.4	09/13/2004
Vinyl chloride		5661	<0.47		ug/L	0.47	1.4	09/13/2004
Xylenes, Total		5661	<0.38		ug/L	0.38	1.1	09/13/2004
Dibromofluoromethane (surr)		5661	98.0		%			09/13/2004
Toluene-d8 (surr)		5661	92.0		%			09/13/2004
4-Bromofluorobenzene (surr)		5661	90.0		%			09/13/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1045	<8.0		ug/kg	8.0	24	09/21/2004
Benzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Bromobenzene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Bromochloromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Bromodichloromethane		1045	<2.25		ug/kg	2.25	6.75	09/21/2004
Bromoform		1045	<3.35		ug/kg	3.35	10.0	09/21/2004
Bromomethane		1045	<4.90		ug/kg	4.90	14.5	09/21/2004
Methyl ethyl ketone (MEK)		1045	<0.85		ug/kg	0.85	2.00	09/21/2004
n-Butylbenzene		1045	<5.0		ug/kg	0.47	5.0	09/21/2004
Carbon tetrachloride		1045	<6.0		ug/kg	6.0	18.0	09/21/2004
Chlorobenzene		1045	<0.425		ug/kg	0.425	1.275	09/21/2004
Chlorodibromomethane		1045	<1.40		ug/kg	1.40	4.20	09/21/2004
Chloroethane		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Chloroform		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
Chloromethane		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
2-Chlorotoluene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
4-Chlorotoluene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
1,2-Dibromo-3-chloropropane		1045	<10		ug/kg	10	30	09/21/2004
1,2-Dibromoethane (EDB)		1045	<2.95		ug/kg	2.95	8.85	09/21/2004
Dibromomethane		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,3-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,4-Dichlorobenzene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Dichlorodifluoromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1-Dichloroethane		1045	<0.80		ug/kg	0.80	2.4	09/21/2004
1,2-Dichloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,1-Dichloroethene		1045	<0.335		ug/kg	0.335	1.00	09/21/2004
cis-1,2-Dichloroethene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
trans-1,2-Dichloroethene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichloropropane		1045	<0.43		ug/kg	0.43	1.29	09/21/2004
1,3-Dichloropropane		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
2,2-Dichloropropane		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
1,1-Dichloropropene		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
cis-1,3-Dichloropropene		1045	<0.80		ug/kg	0.80	2.40	09/21/2004
trans-1,3-Dichloropropene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Ethylbenzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Hexachlorobutadiene		1045	<2.90		ug/kg	2.90	8.70	09/21/2004
2-Hexanone		1045	<0.55		ug/kg	0.55	2.00	09/21/2004
Isopropylbenzene		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
p-Isopropyltoluene		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
Methylene chloride		1045	<50		ug/kg	7.0	50	09/21/2004
Methyl isobutyl ketone		1045	<0.70		ug/kg	0.70	2.00	09/21/2004
MTBE		1045	<4.75		ug/kg	4.75	14.2	09/21/2004
Naphthalene		1045	<5.0		ug/kg	0.80	5.0	09/21/2004
n-Propylbenzene		1045	<5.0		ug/kg	0.55	5.0	09/21/2004
Styrene		1045	<0.38		ug/kg	0.38	1.14	09/21/2004
1,1,1,2-Tetrachloroethane		1045	<1.80		ug/kg	1.80	5.40	09/21/2004
1,1,2,2-Tetrachloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
Tetrachloroethene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Toluene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
1,2,3-Trichlorobenzene		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
1,2,4-Trichlorobenzene		1045	<5.0		ug/kg	0.32	5.0	09/21/2004
1,1,1-Trichloroethane		1045	<1.05		ug/kg	1.05	3.15	09/21/2004
1,1,2-Trichloroethane		1045	<1.2		ug/kg	1.2	3.6	09/21/2004
Trichloroethylene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Trichlorofluoromethane		1045	<0.44		ug/kg	0.44	1.34	09/21/2004
1,2,3-Trichloropropane		1045	<0.90		ug/kg	0.90	2.7	09/21/2004

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1,2,4-Trimethylbenzene		1045	<5.0		ug/kg	1.4	5.0	09/21/2004
1,3,5-Trimethylbenzene		1045	<5.0		ug/kg	2.3	5.0	09/21/2004
Vinyl Chloride		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Xylenes, Total		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
4-Bromofluorobenzene (surr)		1045	97		%			09/21/2004
Dibromofluoromethane (surr)		1045	96		%			09/21/2004
Toluene-d8 (surr)		1045	95		%			09/21/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1049	<8.0		ug/kg	8.0	24	09/17/2004
Benzene		1049	<0.55		ug/kg	0.55	1.65	09/17/2004
Bromobenzene		1049	<0.70		ug/kg	0.70	2.10	09/17/2004
Bromochloromethane		1049	<0.95		ug/kg	0.95	2.85	09/17/2004
Bromodichloromethane		1049	<2.25		ug/kg	2.25	6.75	09/17/2004
Bromoform		1049	<3.35		ug/kg	3.35	10.0	09/17/2004
Bromomethane		1049	<4.90		ug/kg	4.90	14.5	09/17/2004
Methyl ethyl ketone (MEK)		1049	<0.85		ug/kg	0.85	2.00	09/17/2004
n-Butylbenzene		1049	<5.0		ug/kg	0.47	5.0	09/17/2004
sec-Butylbenzene		1049	<5.0		ug/kg	1.45	5.0	09/17/2004
tert-Butylbenzene		1049	<5.0		ug/kg	0.5	5.0	09/17/2004
Carbon tetrachloride		1049	<6.0		ug/kg	6.0	18.0	09/17/2004
Chlorobenzene		1049	<0.425		ug/kg	0.425	1.275	09/17/2004
Chlorodibromomethane		1049	<1.40		ug/kg	1.40	4.20	09/17/2004
Chloroethane		1049	<0.70		ug/kg	0.70	2.10	09/17/2004
Chloroform		1049	<0.85		ug/kg	0.85	2.55	09/17/2004
Chloromethane		1049	<0.5		ug/kg	0.5	1.5	09/17/2004
2-Chlorotoluene		1049	<0.65		ug/kg	0.65	1.95	09/17/2004
4-Chlorotoluene		1049	<0.55		ug/kg	0.55	1.65	09/17/2004
1,2-Dibromo-3-chloropropane		1049	<10		ug/kg	10	30	09/17/2004
1,2-Dibromoethane (EDB)		1049	<2.95		ug/kg	2.95	8.85	09/17/2004
Dibromomethane		1049	<0.75		ug/kg	0.75	2.25	09/17/2004
1,2-Dichlorobenzene		1049	<1.1		ug/kg	1.1	3.3	09/17/2004
1,3-Dichlorobenzene		1049	<1.1		ug/kg	1.1	3.3	09/17/2004
1,4-Dichlorobenzene		1049	<0.65		ug/kg	0.65	1.95	09/17/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		1049	<0.95		ug/kg	0.95	2.85	09/17/2004
1,1-Dichloroethane		1049	<0.80		ug/kg	0.80	2.4	09/17/2004
1,2-Dichloroethane		1049	<1.1		ug/kg	1.1	3.3	09/17/2004
1,1-Dichloroethene		1049	<0.335		ug/kg	0.335	1.00	09/17/2004
cis-1,2-Dichloroethene		1049	<0.95		ug/kg	0.95	2.85	09/17/2004
trans-1,2-Dichloroethene		1049	<0.75		ug/kg	0.75	2.25	09/17/2004
1,2-Dichloropropane		1049	<0.43		ug/kg	0.43	1.29	09/17/2004
1,3-Dichloropropane		1049	<0.85		ug/kg	0.85	2.55	09/17/2004
2,2-Dichloropropane		1049	<0.36		ug/kg	0.36	1.08	09/17/2004
1,1-Dichloropropene		1049	<0.85		ug/kg	0.85	2.55	09/17/2004
cis-1,3-Dichloropropene		1049	<0.80		ug/kg	0.80	2.40	09/17/2004
trans-1,3-Dichloropropene		1049	<0.75		ug/kg	0.75	2.25	09/17/2004
Ethylbenzene		1049	<0.55		ug/kg	0.55	1.65	09/17/2004
Hexachlorobutadiene		1049	<2.90		ug/kg	2.90	8.70	09/17/2004
2-Hexanone		1049	<0.55		ug/kg	0.55	2.00	09/17/2004
Isopropylbenzene		1049	<0.36		ug/kg	0.36	1.08	09/17/2004
p-Isopropyltoluene		1049	<0.5		ug/kg	0.5	1.5	09/17/2004
Methylene chloride		1049	<50		ug/kg	7.0	50	09/17/2004
Methyl isobutyl ketone		1049	<0.70		ug/kg	0.70	2.00	09/17/2004
MTBE		1049	<4.75		ug/kg	4.75	14.2	09/17/2004
Naphthalene		1049	<5.0		ug/kg	0.80	5.0	09/17/2004
n-Propylbenzene		1049	<5.0		ug/kg	0.55	5.0	09/17/2004
Styrene		1049	<0.38		ug/kg	0.38	1.14	09/17/2004
1,1,1,2-Tetrachloroethane		1049	<1.80		ug/kg	1.80	5.40	09/17/2004
1,1,2,2-Tetrachloroethane		1049	<1.1		ug/kg	1.1	3.3	09/17/2004
Tetrachloroethene		1049	1.15	B	ug/kg	0.65	1.95	09/17/2004
Toluene		1049	<0.70		ug/kg	0.70	2.10	09/17/2004
1,2,3-Trichlorobenzene		1049	<5.0		ug/kg	1.6	5.0	09/17/2004
1,2,4-Trichlorobenzene		1049	<5.0		ug/kg	0.32	5.0	09/17/2004
1,1,1-Trichloroethane		1049	<1.05		ug/kg	1.05	3.15	09/17/2004
1,1,2-Trichloroethane		1049	<1.2		ug/kg	1.2	3.6	09/17/2004
Trichloroethylene		1049	<0.95		ug/kg	0.95	2.85	09/17/2004
Trichlorofluoromethane		1049	<0.44		ug/kg	0.44	1.34	09/17/2004

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1,2,3-Trichloropropane		1049	<0.90		ug/kg	0.90	2.7	09/17/2004
1,2,4-Trimethylbenzene		1049	<5.0		ug/kg	1.4	5.0	09/17/2004
1,3,5-Trimethylbenzene		1049	<5.0		ug/kg	2.3	5.0	09/17/2004
Vinyl Chloride		1049	<0.75		ug/kg	0.75	2.25	09/17/2004
Xylenes, Total		1049	<5.0		ug/kg	1.6	5.0	09/17/2004
4-Bromofluorobenzene (surr)		1049	96		%			09/17/2004
Dibromofluoromethane (surr)		1049	102		%			09/17/2004
Toluene-d8 (surr)		1049	94		%			09/17/2004
VOA 8260 NON-AQUEOUS LRL								
sec-Butylbenzene		1050	<48		ug/kg	14.0	48	09/20/2004
tert-Butylbenzene		1050	<48		ug/kg	5	48	09/20/2004
BNA Soil 8270 MDL								
Acenaphthene	108	175	<0.063		mg/kg	0.063	0.189	09/15/2004
Acenaphthylene	108	175	<0.059		mg/kg	0.059	0.177	09/15/2004
Anthracene	108	175	<0.039		mg/kg	0.039	0.117	09/15/2004
Benzidine	108	175	0.14	B	mg/kg	0.098	0.294	09/15/2004
Benzo(a)anthracene	108	175	<0.035		mg/kg	0.035	0.105	09/15/2004
Benzo(b)fluoranthene	108	175	<0.037		mg/kg	0.037	0.111	09/15/2004
Benzo(k)fluoranthene	108	175	<0.049		mg/kg	0.049	0.147	09/15/2004
Benzo(a)pyrene	108	175	<0.049		mg/kg	0.049	0.147	09/15/2004
Benzo(ghi)perylene	108	175	<0.039		mg/kg	0.039	0.117	09/15/2004
Benzyl alcohol	108	175	<0.081		mg/kg	0.081	0.243	09/15/2004
Benzyl butyl phthalate	108	175	<0.043		mg/kg	0.043	0.129	09/15/2004
Bis(2-chloroethyl)ether	108	175	<0.078		mg/kg	0.078	0.234	09/15/2004
Bis(2-chloroethoxy)methane	108	175	<0.074		mg/kg	0.074	0.222	09/15/2004
Bis(2-ethylhexyl)phthalate	108	175	<0.032		mg/kg	0.032	0.096	09/15/2004
Bis(2chloroisopropyl)ether	108	175	<0.086		mg/kg	0.086	0.258	09/15/2004
4-Bromophenyl phenyl ether	108	175	<0.048		mg/kg	0.048	0.144	09/15/2004
Carbazole	108	175	<0.039		mg/kg	0.039	0.117	09/15/2004
4-Chloroaniline	108	175	<0.104		mg/kg	0.104	0.312	09/15/2004
2-Chloronaphthalene	108	175	<0.070		mg/kg	0.070	0.21	09/15/2004
4-Chlorophenylphenyl ether	108	175	<0.055		mg/kg	0.055	0.165	09/15/2004
Chrysene	108	175	<0.030		mg/kg	0.030	0.090	09/15/2004

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Dibenzo (a, h) anthracene	108	175	<0.077		mg/kg	0.077	0.231	09/15/2004
Dibenzofuran	108	175	<0.047		mg/kg	0.047	0.141	09/15/2004
Di-n-butylphthalate	108	175	<0.043		mg/kg	0.043	0.129	09/15/2004
1,2-Dichlorobenzene	108	175	<0.103		mg/kg	0.103	0.309	09/15/2004
1,3-Dichlorobenzene	108	175	<0.092		mg/kg	0.092	0.276	09/15/2004
1,4-Dichlorobenzene	108	175	<0.085		mg/kg	0.085	0.255	09/15/2004
3,3-Dichlorobenzidine	108	175	<0.107		mg/kg	0.107	0.321	09/15/2004
Diethyl phthalate	108	175	0.06	B	mg/kg	0.047	0.141	09/15/2004
2,4-Dinitrotoluene	108	175	<0.047		mg/kg	0.047	0.141	09/15/2004
2,6-Dinitrotoluene	108	175	<0.066		mg/kg	0.066	0.198	09/15/2004
Di-n-octylphthalate	108	175	<0.060		mg/kg	0.060	0.18	09/15/2004
Fluorene	108	175	<0.053		mg/kg	0.053	0.159	09/15/2004
Hexachlorobenzene	108	175	<0.029		mg/kg	0.029	0.087	09/15/2004
Hexachlorocyclopentadiene	108	175	<0.058		mg/kg	0.058	0.174	09/15/2004
Hexachloro-1,3-butadiene	108	175	<0.067		mg/kg	0.067	0.201	09/15/2004
Hexachloroethane	108	175	<0.082		mg/kg	0.082	0.246	09/15/2004
Indeno(1,2,3-cd)pyrene	108	175	<0.031		mg/kg	0.031	0.093	09/15/2004
Isophorone	108	175	<0.059		mg/kg	0.059	0.177	09/15/2004
2-Methylnaphthalene	108	175	<0.064		mg/kg	0.064	0.192	09/15/2004
Naphthalene	108	175	<0.073		mg/kg	0.073	0.219	09/15/2004
2-Nitroaniline	108	175	<0.070		mg/kg	0.070	0.21	09/15/2004
3-Nitroaniline	108	175	<0.059		mg/kg	0.059	0.177	09/15/2004
4-Nitroaniline	108	175	<0.069		mg/kg	0.069	0.207	09/15/2004
Nitrobenzene	108	175	<0.076		mg/kg	0.076	0.228	09/15/2004
N-Nitrosodimethylamine	108	175	<0.111		mg/kg	0.111	0.333	09/15/2004
N-Nitrosodiphenylamine	108	175	<0.034		mg/kg	0.034	0.102	09/15/2004
N-Nitrosodi-n-propylamine	108	175	<0.083		mg/kg	0.083	0.249	09/15/2004
Phenanthrene	108	175	<0.038		mg/kg	0.038	0.114	09/15/2004
Pyrene	108	175	<0.050		mg/kg	0.050	0.15	09/15/2004
Pyridine	108	175	<0.112		mg/kg	0.112	0.336	09/15/2004
1,2,4-Trichlorobenzene	108	175	<0.073		mg/kg	0.073	0.219	09/15/2004
Nitrobenzene-d5 (surr)	108	175	66.0		%			09/15/2004
2-Fluorobiphenyl (surr)	108	175	70.0		%			09/15/2004

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09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Terphenyl-d14 (surr)	108	175	183.0	OOC	%			09/15/2004
Benzoic Acid	108	175	<0.33		mg/kg	0.33	0.99	09/15/2004
4-Chloro-3-methylphenol	108	175	<0.072		mg/kg	0.072	0.216	09/15/2004
2-chlorophenol	108	175	<0.086		mg/kg	0.086	0.258	09/15/2004
2-Methylphenol	108	175	<0.078		mg/kg	0.078	0.234	09/15/2004
4-Methylphenol	108	175	<0.080		mg/kg	0.080	0.24	09/15/2004
Cresols, Total	108	175	<0.158		mg/kg	0.158	0.474	09/15/2004
2,4-Dichlorophenol	108	175	<0.074		mg/kg	0.074	0.222	09/15/2004
2,4-Dimethylphenol	108	175	<0.063		mg/kg	0.063	0.189	09/15/2004
2,4-Dinitrophenol	108	175	<0.028		mg/kg	0.028	0.084	09/15/2004
2-Methyl-4,6-dinitrophenol	108	175	<0.105		mg/kg	0.105	0.315	09/15/2004
2-Nitrophenol	108	175	<0.112		mg/kg	0.112	0.336	09/15/2004
4-Nitrophenol	108	175	<0.066		mg/kg	0.066	0.198	09/15/2004
Pentachlorophenol	108	175	<0.077	L	mg/kg	0.077	0.231	09/15/2004
Phenol	108	175	<0.077		mg/kg	0.077	0.231	09/15/2004
2,4,5-Trichlorophenol	108	175	<0.069		mg/kg	0.069	0.207	09/15/2004
2,4,6-Trichlorophenol	108	175	<0.054		mg/kg	0.054	0.162	09/15/2004
Phenol-d6 (surr)	108	175	65.0		%			09/15/2004
2-Fluorophenol (surr)	108	175	60.0		%			09/15/2004
Tribromophenol (surr)	108	175	84.0		%			09/15/2004
BNA Soil 8270 MDL								
BNA Soil 8270 MDL								
Acenaphthene	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
Acenaphthylene	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
Anthracene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzidine	109	174	<0.098		mg/kg	0.098	0.294	09/16/2004
Benzo(a)anthracene	109	174	<0.035		mg/kg	0.035	0.105	09/16/2004
Benzo(b)fluoranthene	109	174	<0.037		mg/kg	0.037	0.111	09/16/2004
Benzo(k)fluoranthene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(a)pyrene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(ghi)perylene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzyl alcohol	109	174	<0.081		mg/kg	0.081	0.243	09/16/2004
Benzyl butyl phthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bis(2-chloroethyl)ether	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
Bis(2-chloroethoxy)methane	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
Bis(2-ethylhexyl)phthalate	109	174	<0.032		mg/kg	0.032	0.096	09/16/2004
Bis(2chloroisopropyl)ether	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
4-Bromophenyl phenyl ether	109	174	<0.048		mg/kg	0.048	0.144	09/16/2004
Carbazole	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
4-Chloroaniline	109	174	<0.104		mg/kg	0.104	0.312	09/16/2004
2-Chloronaphthalene	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
4-Chlorophenylphenyl ether	109	174	<0.055		mg/kg	0.055	0.165	09/16/2004
Chrysene	109	174	<0.030		mg/kg	0.030	0.090	09/16/2004
Dibenzo(a,h)anthracene	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Dibenzofuran	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
Di-n-butylphthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004
1,2-Dichlorobenzene	109	174	<0.103		mg/kg	0.103	0.309	09/16/2004
1,3-Dichlorobenzene	109	174	<0.092		mg/kg	0.092	0.276	09/16/2004
1,4-Dichlorobenzene	109	174	<0.085		mg/kg	0.085	0.255	09/16/2004
3,3-Dichlorobenzidine	109	174	<0.107		mg/kg	0.107	0.321	09/16/2004
Diethyl phthalate	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,4-Dinitrotoluene	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,6-Dinitrotoluene	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Di-n-octylphthalate	109	174	<0.060		mg/kg	0.060	0.18	09/16/2004
Fluorene	109	174	<0.053		mg/kg	0.053	0.159	09/16/2004
Hexachlorobenzene	109	174	<0.029		mg/kg	0.029	0.087	09/16/2004
Hexachlorocyclopentadiene	109	174	<0.058		mg/kg	0.058	0.174	09/16/2004
Hexachloro-1,3-butadiene,	109	174	<0.067		mg/kg	0.067	0.201	09/16/2004
Hexachloroethane	109	174	<0.082		mg/kg	0.082	0.246	09/16/2004
Indeno(1,2,3-cd)pyrene	109	174	<0.031		mg/kg	0.031	0.093	09/16/2004
Isophorone	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
2-Methylnaphthalene	109	174	<0.064		mg/kg	0.064	0.192	09/16/2004
Naphthalene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
2-Nitroaniline	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
3-Nitroaniline	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
4-Nitroaniline	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Nitrobenzene	109	174	<0.076		mg/kg	0.076	0.228	09/16/2004
N-Nitrosodimethylamine	109	174	<0.111		mg/kg	0.111	0.333	09/16/2004
N-Nitrosodiphenylamine	109	174	<0.034		mg/kg	0.034	0.102	09/16/2004
N-Nitrosodi-n-propylamine	109	174	<0.083		mg/kg	0.083	0.249	09/16/2004
Phenanthrene	109	174	<0.038		mg/kg	0.038	0.114	09/16/2004
Pyrene	109	174	<0.050		mg/kg	0.050	0.15	09/16/2004
Pyridine	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
1,2,4-Trichlorobenzene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
Nitrobenzene-d5 (surr)	109	174	58.0		%			09/16/2004
2-Fluorobiphenyl (surr)	109	174	57.0	OOC	%			09/16/2004
Terphenyl-d14 (surr)	109	174	80.0		%			09/16/2004
Benzoic Acid	109	174	<0.33		mg/kg	0.33	0.99	09/16/2004
4-Chloro-3-methylphenol	109	174	<0.072		mg/kg	0.072	0.216	09/16/2004
2-chlorophenol	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
2-Methylphenol	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
4-Methylphenol	109	174	<0.080		mg/kg	0.080	0.24	09/16/2004
Cresols, Total	109	174	<0.158		mg/kg	0.158	0.474	09/16/2004
2,4-Dichlorophenol	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
2,4-Dimethylphenol	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
2,4-Dinitrophenol	109	174	<0.028		mg/kg	0.028	0.084	09/16/2004
2-Methyl-4,6-dinitrophenol	109	174	<0.105		mg/kg	0.105	0.315	09/16/2004
2-Nitrophenol	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
4-Nitrophenol	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Pentachlorophenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Phenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
2,4,5-Trichlorophenol	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004
2,4,6-Trichlorophenol	109	174	<0.054		mg/kg	0.054	0.162	09/16/2004
Phenol-d6 (surr)	109	174	57.0		%			09/16/2004
2-Fluorophenol (surr)	109	174	54.0		%			09/16/2004
Tribromophenol (surr)	109	174	91.0		%			09/16/2004
PCB's Non-Aqueous								
PCB-1016	833	1891	<0.25		mg/kg	0.15	0.25	09/24/2004
PCB-1221	833	1891	<0.25		mg/kg	0.19	0.25	09/24/2004

QUALITY CONTROL REPORT BLANKS

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09/28/2004

TestAmerica Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCB-1232	833	1891	<0.25		mg/kg	0.029	0.25	09/24/2004
PCB-1242	833	1891	<0.25		mg/kg	0.049	0.25	09/24/2004
PCB-1248	833	1891	<0.25		mg/kg	0.019	0.25	09/24/2004
PCB-1254	833	1891	<0.25		mg/kg	0.025	0.25	09/24/2004
PCB-1260	833	1891	<0.25		mg/kg	0.14	0.25	09/24/2004
PCB-1268	833	1891	<0.25		mg/kg	0.063	0.25	09/24/2004
Decachlorobiphenyl (Surr.)	833	1891	103		%	1	1	09/24/2004
Tetrachlorometaxylene (Surr.)	833	1891	76		%	1	1	09/24/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3182	5417	<10		mg/kg	10	10	09/19/2004
Diesel	3182	5417	<10		mg/kg	6.7	10	09/19/2004
Gasoline	3182	5417	<10		mg/kg	5.7	10	09/19/2004
Motor Oil	3182	5417	<10		mg/kg	7.1	10	09/19/2004
N-Octacosane (Surr.)	3182	5417	98		%	1.0	1.0	09/19/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
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09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, mdl		870	0.198	mg/kg	0.210	106		09/15/2004
Arsenic, (GFAA) mdl	911	631	0.0400	mg/L	0.0390	98		09/14/2004
Mercury, mdl		2063	0.156	mg/kg	0.145	93	B	09/15/2004
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144	91		09/20/2004
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144	91		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383	94		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383	94		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731	97		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731	97		09/20/2004
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89	94		09/20/2004
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85	96		09/20/2004
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377	84		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5661	20.0	ug/L	19.8	99		09/13/2004
Chlorobenzene		5661	20.0	ug/L	18.8	94		09/13/2004
1,1-Dichloroethene		5661	20.0	ug/L	20.8	104		09/13/2004
Ethylbenzene		5661	20.0	ug/L	18.2	91		09/13/2004
MTBE		5661	20.0	ug/L	21.2	106		09/13/2004
1,2,4-Trimethylbenzene		5661	20.0	ug/L	18.2	91		09/13/2004
Toluene		5661	20.0	ug/L	18.9	94		09/13/2004
1,3,5-Trimethylbenzene		5661	20.0	ug/L	18.6	93		09/13/2004
Trichloroethylene		5661	20.0	ug/L	18.5	92		09/13/2004
Xylenes, Total		5661	60.0	ug/L	55.3	92		09/13/2004
Dibromofluoromethane (surr)		5661	100	%	100.0	100		09/13/2004
Toluene-d8 (surr)		5661	100	%	96.0	96		09/13/2004
4-Bromofluorobenzene (surr)		5661	100	%	100.0	100		09/13/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	28.79	ug/kg	31.1	108		09/21/2004
Bromoform		1045	28.79	ug/kg	27.0	94		09/21/2004
Chlorobenzene		1045	28.79	ug/kg	28.7	100		09/21/2004
1,1-Dichloroethane		1045	28.79	ug/kg	32.4	112		09/21/2004
1,1-Dichloroethene		1045	28.79	ug/kg	32.2	112		09/21/2004
Ethylbenzene		1045	28.79	ug/kg	29.2	101		09/21/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
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09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
MTBE		1045	28.79	ug/kg	34.4	120		09/21/2004
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0	101		09/21/2004
Toluene		1045	28.79	ug/kg	29.5	102		09/21/2004
Trichloroethylene		1045	28.79	ug/kg	27.9	97		09/21/2004
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4	95		09/21/2004
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6	99		09/21/2004
Vinyl Chloride		1045	28.79	ug/kg	31.1	108		09/21/2004
Xylenes, Total		1045	86.38	ug/kg	87.2	101		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	102	102		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	99	99		09/21/2004
Toluene-d8 (surr)		1045	100	%	100	100		09/21/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1049	30.17	ug/kg	30.1	100		09/17/2004
Bromoform		1049	30.17	ug/kg	22.4	74		09/17/2004
Chlorobenzene		1049	30.17	ug/kg	27.8	92		09/17/2004
1,1-Dichloroethane		1049	30.17	ug/kg	33.3	110		09/17/2004
1,1-Dichloroethene		1049	30.17	ug/kg	33.2	110		09/17/2004
Ethylbenzene		1049	30.17	ug/kg	28.3	94		09/17/2004
MTBE		1049	30.17	ug/kg	33.9	112		09/17/2004
1,1,2,2-Tetrachloroethane		1049	30.17	ug/kg	27.9	92		09/17/2004
Toluene		1049	30.17	ug/kg	27.8	92		09/17/2004
Trichloroethylene		1049	30.17	ug/kg	26.2	87		09/17/2004
1,2,4-Trimethylbenzene		1049	30.17	ug/kg	39.1	130	LC	09/17/2004
1,3,5-Trimethylbenzene		1049	30.17	ug/kg	31.2	103		09/17/2004
Vinyl Chloride		1049	30.17	ug/kg	33.6	111		09/17/2004
Xylenes, Total		1049	90.50	ug/kg	87.2	96		09/17/2004
4-Bromofluorobenzene (surr)		1049	100	%	87	87		09/17/2004
Dibromofluoromethane (surr)		1049	100	%	102	102		09/17/2004
Toluene-d8 (surr)		1049	100	%	100	100		09/17/2004
VOA 8260 NON-AQUEOUS LRL								
BNA Soil 8270 MDL								
Acenaphthene	108	175	3.33	mg/kg	3.09	93		09/15/2004
1,4-Dichlorobenzene	108	175	3.33	mg/kg	2.46	74		09/15/2004

LC - LCS/LCSD relative percent difference is out of control.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
2,4-Dinitrotoluene	108	175	3.33	mg/kg	3.81	114		09/15/2004
N-Nitrosodi-n-propylamine	108	175	3.33	mg/kg	2.69	81		09/15/2004
Pyrene	108	175	3.33	mg/kg	3.19	96		09/15/2004
1,2,4-Trichlorobenzene	108	175	3.33	mg/kg	2.57	77		09/15/2004
Nitrobenzene-d5 (surr)	108	175	100	%	79.0	79		09/15/2004
2-Fluorobiphenyl (surr)	108	175	100	%	90.0	90		09/15/2004
Terphenyl-d14 (surr)	108	175	100	%	85.0	85		09/15/2004
4-Chloro-3-methylphenol	108	175	3.33	mg/kg	3.04	91		09/15/2004
2-chlorophenol	108	175	3.33	mg/kg	2.51	75		09/15/2004
4-Nitrophenol	108	175	3.33	mg/kg	3.35	101		09/15/2004
Pentachlorophenol	108	175	3.33	mg/kg	1.40	42	L	09/15/2004
Phenol	108	175	3.33	mg/kg	2.54	76		09/15/2004
Phenol-d6 (surr)	108	175	100	%	77.0	77		09/15/2004
2-Fluorophenol (surr)	108	175	100	%	74.0	74		09/15/2004
Tribromophenol (surr)	108	175	100	%	104.0	104		09/15/2004
BNA Soil 8270 MDL								
BNA Soil 8270 MDL								
Acenaphthene	109	174	3.33	mg/kg	2.86	86		09/16/2004
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94	58		09/16/2004
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31	99		09/16/2004
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23	67		09/16/2004
Pyrene	109	174	3.33	mg/kg	3.41	102		09/16/2004
1,2,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01	60		09/16/2004
Nitrobenzene-d5 (surr)	109	174	100	%	62.0	62		09/16/2004
2-Fluorobiphenyl (surr)	109	174	100	%	76.0	76		09/16/2004
Terphenyl-d14 (surr)	109	174	100	%	84.0	84		09/16/2004
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89	87		09/16/2004
2-chlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
4-Nitrophenol	109	174	3.33	mg/kg	3.16	95		09/16/2004
Pentachlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
Phenol	109	174	3.33	mg/kg	2.02	61		09/16/2004
Phenol-d6 (surr)	109	174	100	%	61.0	61		09/16/2004
2-Fluorophenol (surr)	109	174	100	%	55.0	55		09/16/2004

L - LCS recovery is outside of control limits.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Tribromophenol (surr)	109	174	100	%	93.0	93		09/16/2004
PCB's Non-Aqueous								
PCB-1221	833	1894	0.17	mg/kg	0.14	82		09/27/2004
Decachlorobiphenyl (Surr.)	833	1894	100	%	114	114		09/27/2004
Tetrachlorometaxylene (Surr.)	833	1894	100	%	90	90		09/27/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3182	5417	66.7	mg/kg	54.6	82		09/19/2004
N-Octacosane (Surr.)	3182	5417	1.0	%	120	12000		09/19/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12478

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2753	100.00	100.00	%	0.0		09/10/2004	20
Solids, Total		2753	91.87	90.35	%	1.7		09/10/2004	20
Solids, Total		2754	96.20	96.10	%	0.1		09/10/2004	20
Solids, Total		2754	99.81	99.77	%	0.0		09/10/2004	20
Solids, Total		2754	87.86	88.87	%	1.1		09/10/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12478

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
Cyanide, mdl		870	<46	<46	44.4	mg/kg dw	0	<46	44.5	mg/kg dw	0	
Arsenic, (GFAA) mdl	911	631	5.27	0.971	4.02	mg/kg dw	107.0	5.39	3.90	mg/kg dw	113.2	2.1
Mercury, mdl		2063	12.4	3.2	10.6	mg/kg dw	87.5	10.6	10.8	mg/kg dw	68.4	16.3
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Cadmium, (ICP) mdl	1506	2808	93.0	<0.58	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Cadmium, (ICP) mdl	1506	2808	93.0	<0.24	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Silver, (ICP) mdl	1506	636	44.6	<0.57	49.2	mg/kg dw	90.6			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5661	20	0.36	20	ug/L	98.2	19.5	20.0	ug/L	95.7	2.5
Chlorobenzene		5661	19	<0.25	20	ug/L	95.0	18.8	20.0	ug/L	94.0	1.1
1,1-Dichloroethene		5661	20	0.83	20	ug/L	95.9	18.9	20.0	ug/L	90.4	5.7
Ethylbenzene		5661	17.4	<0.43	20.0	ug/L	87.0	17.4	20.0	ug/L	87.0	0.0
1,2,4-Trimethylbenzene		5661	16.8	<0.25	20.0	ug/L	84.0	16.8	20.0	ug/L	84.0	0.0
Toluene		5661	19	<0.25	20	ug/L	95.0	18.5	20.0	ug/L	92.5	2.7
1,3,5-Trimethylbenzene		5661	15.8	<0.14	20.0	ug/L	79.0	16.2	20.0	ug/L	81.0	2.5
Trichloroethylene		5661	17.6	<0.43	20.0	ug/L	88.0	17.1	20.0	ug/L	85.5	2.9
VOA 8260 NON-AQUEOUS LRL												
Benzene		1045	<0.55	<0.55	42.03	ug/kg	0	<0.55	41.61	ug/kg	0	
Ethylbenzene		1045	<0.55	<0.55	42.03	ug/kg	0	<0.55	41.61	ug/kg	0	

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12478

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Spike		
MTBE		1045	<4.75	<4.75	42.03	ug/kg	0	<4.75	41.61	ug/kg	0	
Toluene		1045	<0.70	<0.70	42.03	ug/kg	0	<0.70	41.61	ug/kg	0	
Xylenes, Total		1045	<5.0	<5.0	126.1	ug/kg	0	<5.0	124.8	ug/kg	0	
BNA Soil 8270 MDL												
Acenaphthene	109	177	3.3	<0.68	35.9	mg/kg dw	9.3	3.2	35.2	mg/kg dw	9.2	3.3
1,4-Dichlorobenzene	109	177	3.2	0.90	35.9	mg/kg dw	9.0	2.8	35.2	mg/kg dw	5.4	14.3
2,4-Dinitrotoluene	109	177	2.7	0.52	35.9	mg/kg dw	7.5	2.8	35.2	mg/kg dw	6.5	3.9
N-Nitrosodi-n-propylamine	109	177	2.4	0.90	35.9	mg/kg dw	6.6	2.8	35.2	mg/kg dw	5.4	16.7
Pyrene	109	177	4.1	1.2	35.9	mg/kg dw	8.1	3.9	35.2	mg/kg dw	7.7	5.4
1,2,4-Trichlorobenzene	109	177	3.5	<0.77	35.9	mg/kg dw	9.6	3.1	35.2	mg/kg dw	8.9	9.8
4-Chloro-3-methylphenol	109	177	2.8	<0.77	35.9	mg/kg dw	7.8	2.8	35.2	mg/kg dw	8.0	0.0
2-chlorophenol	109	177	2.9	0.92	35.9	mg/kg dw	8.1	3.0	35.2	mg/kg dw	6.0	3.6
4-Nitrophenol	109	177	1.8	<0.70	35.9	mg/kg dw	5.1	2.6	35.2	mg/kg dw	7.4	34.1
Pentachlorophenol	109	177	1.3	0.81	35.9	mg/kg dw	3.6	1.3	35.2	mg/kg dw	1.4	0.0
Phenol	109	177	2.6	0.81	35.9	mg/kg dw	7.2	2.6	35.2	mg/kg dw	5.1	0.0
PCB's Non-Aqueous												
PCB-1221	833	1891	<0.19	<0.26	0.17	mg/kg dw	82.4	<0.19	0.16	mg/kg dw	75.0	15.4
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3182	5417	NA	<10	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3182	5417	58.7	<10	66.1	mg/kg	88.8	56.1	66.2	mg/kg	84.7	4.5
Motor Oil	3182	5417	NA	10.9	0.0	mg/kg	0	NA	1.0	mg/kg		

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12478

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Cyanide, mdl		870	0.198	mg/kg	0.210		106.1		90 - 110		20
Arsenic, (GFAA) mdl	911	631	0.0400	mg/L	0.0390		97.5		80 - 120		20
Mercury, mdl		2063	0.156	mg/kg	0.145		92.9		80 - 115		20
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144		91.4		90 - 110		20
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144		91.4		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383		93.8		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383		93.8		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731		97.3		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731		97.3		90 - 110		20
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89		94.5		85 - 110		20
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85		96.3		90 - 110		20
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377		83.8		80 - 120		
VOLATILE COMPOUNDS											
Benzene		5661	20.0	ug/L	19.8		99.0		81 - 124		27
Chlorobenzene		5661	20.0	ug/L	18.8		94.0		77 - 125		28
1,1-Dichloroethene		5661	20.0	ug/L	20.8		104.0		53 - 143		28
1,2,4-Trimethylbenzene		5661	20.0	ug/L	18.2		91.0		65 - 140		24
Toluene		5661	20.0	ug/L	21.2		106.0		70 - 133		26
1,2,4-Trimethylbenzene		5661	20.0	ug/L	18.2		91.0		59 - 145		23
Toluene		5661	20.0	ug/L	18.9		94.5		73 - 127		21
1,3,5-Trimethylbenzene		5661	20.0	ug/L	18.6		93.0		63 - 141		24
Trichloroethylene		5661	20.0	ug/L	18.5		92.5		81 - 121		16
Xylenes, Total		5661	60.0	ug/L	55.3		92.2		75 - 130		20
Dibromofluoromethane (surr)		5661	100	%	100.0		100.0		85 - 118		50
Toluene-d8 (surr)		5661	100	%	96.0		96.0		76 - 120		50
4-Bromofluorobenzene (surr)		5661	100	%	100.0		100.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1045	28.79	ug/kg	31.1		108.0		68 - 158		20
Bromoform		1045	28.79	ug/kg	27.0		93.8		61 - 151		20
Chlorobenzene		1045	28.79	ug/kg	28.7		99.7		65 - 155		20
1,1-Dichloroethane		1045	28.79	ug/kg	32.4		112.5		64 - 154		20
1,1-Dichloroethene		1045	28.79	ug/kg	32.2		111.8		55 - 148		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12478

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCS Result	LCS % Rec	LCS % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Ethylbenzene		1045	28.79	ug/kg	29.2		101.4		69 - 159		20
MTBE		1045	28.79	ug/kg	34.4		119.5		71 - 161		20
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0		100.7		63 - 153		20
Toluene		1045	28.79	ug/kg	29.5		102.5		68 - 158		20
Trichloroethylene		1045	28.79	ug/kg	27.9		96.9		61 - 151		20
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4		95.2		68 - 158		20
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6		99.3		66 - 156		20
Vinyl Chloride		1045	28.79	ug/kg	31.1		108.0		47 - 137		20
Xylenes, Total		1045	86.38	ug/kg	87.2		100.9		69 - 159		20
4-Bromofluorobenzene (surr)		1045	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1045	100	%	99		99.0		56 - 146		
Toluene-d8 (surr)		1045	100	%	100		100.0		52 - 142		
VOA 8260 NON-AQUEOUS LRL											
Benzene		1049	30.17	ug/kg	30.1	27.5	99.8	95.3	68 - 158	9.0	20
Bromoform		1049	30.17	ug/kg	22.4	21.4	74.2	74.2	61 - 151	4.6	20
Chlorobenzene		1049	30.17	ug/kg	27.8	25.3	92.1	87.7	65 - 155	9.4	20
1,1-Dichloroethane		1049	30.17	ug/kg	33.3	32.0	110.4	110.9	64 - 154	4.0	20
1,1-Dichloroethene		1049	30.17	ug/kg	33.2	31.7	110.0	109.9	55 - 148	4.6	20
Ethylbenzene		1049	30.17	ug/kg	28.3	26.1	93.8	90.5	69 - 159	8.1	20
MTBE		1049	30.17	ug/kg	33.9	31.7	112.4	109.9	71 - 161	6.7	20
1,1,2,2-Tetrachloroethane		1049	30.17	ug/kg	27.9	26.1	92.5	90.5	63 - 153	6.7	20
Toluene		1049	30.17	ug/kg	27.8	26.6	92.1	92.2	68 - 158	4.4	20
Trichloroethylene		1049	30.17	ug/kg	26.2	24.5	86.8	84.9	61 - 151	6.7	20
1,2,4-Trimethylbenzene		1049	30.17	ug/kg	39.1	26.2	129.6	90.8	68 - 158	39.5	20
1,3,5-Trimethylbenzene		1049	30.17	ug/kg	31.2	25.8	103.4	89.4	66 - 156	18.9	20
Vinyl Chloride		1049	30.17	ug/kg	33.6	30.4	111.4	105.4	47 - 137	10.0	20
Xylenes, Total		1049	90.50	ug/kg	87.2	79.6	96.4	92.0	69 - 159	9.1	20
4-Bromofluorobenzene (surr)		1049	100	%	87	91	87.0	91.0	75 - 119	4.5	20
Dibromofluoromethane (surr)		1049	100	%	102	104	102.0	104.0	56 - 146	1.9	
Toluene-d8 (surr)		1049	100	%	100	101	100.0	101.0	52 - 142	1.0	
VOA 8260 NON-AQUEOUS LRL											
BNA Soil 8270 MDL											

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12478

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Acenaphthene	108	175	3.33	mg/kg	3.09		92.8		69 - 108		35
1,4-Dichlorobenzene	108	175	3.33	mg/kg	2.46		73.9		49 - 96		35
2,4-Dinitrotoluene	108	175	3.33	mg/kg	3.81		114.4		68 - 129		35
N-Nitrosodi-n-propylamine	108	175	3.33	mg/kg	2.69		80.8		53 - 105		35
Pyrene	108	175	3.33	mg/kg	3.19		95.8		68 - 117		35
1,2,4-Trichlorobenzene	108	175	3.33	mg/kg	2.57		77.2		51 - 98		35
Nitrobenzene-d5 (surr)	108	175	100	%	79.0		79.0		56 - 113		
2-Fluorobiphenyl (surr)	108	175	100	%	90.0		90.0		67 - 107		
Terphenyl-d14 (surr)	108	175	100	%	85.0		85.0		66 - 115		
4-Chloro-3-methylphenol	108	175	3.33	mg/kg	3.04		91.3		67 - 115		35
2-chlorophenol	108	175	3.33	mg/kg	2.51		75.4		51 - 94		35
4-Nitrophenol	108	175	3.33	mg/kg	3.35		100.6		63 - 140		35
Pentachlorophenol	108	175	3.33	mg/kg	1.40		42.0		49 - 139		35
Phenol	108	175	3.33	mg/kg	2.54		76.3		50 - 98		35
Phenol-d6 (surr)	108	175	100	%	77.0		77.0		55 - 106		
2-Fluorophenol (surr)	108	175	100	%	74.0		74.0		52 - 96		
3-bromophenol (surr)	108	175	100	%	104.0		104.0		66 - 149		
IA Soil 8270 MDL											
BNA Soil 8270 MDL											
Acenaphthene	109	174	3.33	mg/kg	2.86		85.9		69 - 108		35
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94		58.3		49 - 96		35
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31		99.4		68 - 129		35
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23		67.0		53 - 105		35
Pyrene	109	174	3.33	mg/kg	3.41		102.4		68 - 117		35
1,2,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01		60.4		51 - 98		35
Nitrobenzene-d5 (surr)	109	174	100	%	62.0		62.0		56 - 113		
2-Fluorobiphenyl (surr)	109	174	100	%	76.0		76.0		67 - 107		
Terphenyl-d14 (surr)	109	174	100	%	84.0		84.0		66 - 115		
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89		86.8		67 - 115		35
2-chlorophenol	109	174	3.33	mg/kg	2.01		60.4		51 - 94		35
4-Nitrophenol	109	174	3.33	mg/kg	3.16		94.9		63 - 140		35
Pentachlorophenol	109	174	3.33	mg/kg	2.01		60.4		49 - 139		35

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12478

Analyte	Prep Batch Number	Run Batch Number	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
Phenol	109	174	3.33	mg/kg	2.02		60.7		50 - 98		35
Phenol-d6 (surr)	109	174	100	%	61.0		61.0		55 - 106		
2-Fluorophenol (surr)	109	174	100	%	55.0		55.0		52 - 96		
Tribromophenol (surr)	109	174	100	%	93.0		93.0		66 - 149		
PCB's Non-Aqueous											
PCB-1221	833	1894	0.17	mg/kg	0.14		82.4		70 - 130		20
Decachlorobiphenyl (Surr.)	833	1894	100	%	114		114.0		63 - 131		35
Tetrachlorometaxylene (Sur	833	1894	100	%	90		90.0		35 - 125		
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3182	5417	66.7	mg/kg	54.6		81.9		42 - 132		20
N-Octacosane (Surr.)	3182	5417	1.0	%	120		12000.		44 - 134		20

TestAmerica Job Number: 04.12478

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Client Name: HOWARD R GREEN Client #: _____
 Address: 8710 ENRIANT LANE SW
 City/State/Zip Code: CEDAR RAPIDS IA 52404
 Project Manager: CINDY QUAST
 Telephone Number: (319) 847-4000 Fax: _____
 Sampler Name: (Print Name) JOH RYK
 Sampler Signature: [Signature]
 Email Address: jryk@hrgreen.com

Project Name: CHAMBERLAIN
 Project #: 722930J23
 Site/Location ID: WATERLOO State: IA
 Report To: CINDY QUAST
 Invoice To: HRG
 Quote #: _____ PO#: _____

TAT Standard Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	Email Results: Y N	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers										Analyze For:	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____	REMARKS					
										HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	CYANIDE	METALS (PCRB)	PCBS				SVOCs (BNAS)	VOCs	OA-1	OA-2	
				TB-8	9/9/04	7:00			DW																		
				SB-3	9/9/04	8:10			S										X	X	X	X					
				SB-3		8:45			S										X	X	X	X					
				SB-2		8:55			S										X	X	X	X					
				SB-2		9:30			S										X	X	X	X					
				SB-1		9:50			S										X	X	X	X					
				SB-1		10:10			S										X	X	X	X					
				SB-5		10:20			S										X	X	X	X					
				SB-5		11:05			S										X	X	X	X					

Special Instructions: NO TAX ACCOUNT # 15404
NEED RESULTS TO COMPARE TO IOWA LRP
STATEWIDE STANDARDS

Relinquished By: [Signature] Date: 9/9/04 Time: 10:30 Received By: [Signature] Date: 9/9/04 Time: 10:30

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-9-04 Receiver's Initials CH Time (Delivered): 16:30

Temperature Record

Cooler ID# (If Applicable)
OA-2
1° °C On Ice

Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svcs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received within 6 hrs of sampling.
- Temperature not taken:

Log-In by:

JP MF EM

OT _____

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-9-04 Receiver's Initials CH Time (Delivered): 16:30

Temperature Record

Cooler ID# (If Applicable)
TA 303

1 ° C / On Ice

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| <input type="checkbox"/> US Postal | |

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received within 6 hrs of sampling.
- Temperature not taken:

Log-In by:

JP MF EM

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job: 04.12551

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
823049	TB-9	09/09/2004	09/10/2004
823050	SB-25 2'	09/10/2004	09/10/2004
823051	SB-25 4'	09/10/2004	09/10/2004
823052	MW-4	09/10/2004	09/10/2004
823053	SB-43 2'	09/10/2004	09/10/2004
823054	SB-42 2'	09/10/2004	09/10/2004
823055	SB-44 2'	09/10/2004	09/10/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert

Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
823049	TB-9								09/09/2004 15:00	
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/18/2004	dmd		5697	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/18/2004	dmd		5697	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/18/2004	dmd		5697	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/18/2004	dmd		5697	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/18/2004	dmd		5697	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823049	SAMPLE DESCRIPTION TB-9					DATE-TIME TAKEN 09/09/2004 15:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/18/2004	dmd		5697	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/18/2004	dmd		5697	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/18/2004	dmd		5697	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/18/2004	dmd		5697	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/18/2004	dmd		5697	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/18/2004	dmd		5697	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichlorobenzene	0.58	B	ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823049	TB-9					09/09/2004 15:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Toluene	0.34		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/18/2004	dmd		5697	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/18/2004	dmd		5697	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Bromofluoromethane (surr)	104		%			09/18/2004	dmd		5697	SW 8260B
Toluene-d8 (surr)	95		%			09/18/2004	dmd		5697	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/18/2004	dmd		5697	SW 8260B
VOA Preservation pH	<2		units	NA		09/20/2004	mmk		1051	SW 9041A

SAMPLE NO. 823050 **SAMPLE DESCRIPTION** SB-25 2' **DATE-TIME TAKEN** 09/10/2004 07:55

Extraction Prep, soil	COMPLETE					09/13/2004	acm		3182	IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	536		mg/kg		100	09/22/2004	ljm	3182	5421	IA-0A2/S-8015

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823050	SB-25 2'					09/10/2004 07:55				
Diesel	<100		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
Gasoline	<100		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
Motor Oil	536		mg/kg		100	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
N-Octacosane (Surr.)	246	p	%	1.0	1.0	09/22/2004	ljm	3182	5421	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	0.59		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	94.0		%	1	1	09/13/2004	mmk		5806	IA-OA1

SAMPLE NO. 823051 **SAMPLE DESCRIPTION** SB-25 4' **DATE-TIME TAKEN** 09/10/2004 08:50

Extraction Prep, soil	COMPLETE					09/13/2004	acm	3182		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	220		mg/kg		100	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Diesel	<100		mg/kg		100	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Gasoline	<100		mg/kg		100	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
Motor Oil	220		mg/kg		100	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
N-Octacosane (Surr.)	161	p	%	1.0	1.0	09/19/2004	ljm	3182	5417	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										

p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823051	SAMPLE DESCRIPTION SB-25 4'					DATE-TIME TAKEN 09/10/2004 08:50				
Benzene	<0.25		mg/kg	0.197	0.25	09/13/2004	mmk		5806	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/13/2004	mmk		5806	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/13/2004	mmk		5806	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/13/2004	mmk		5806	IA-OA1
4-Bromofluorobenzene (surr.)	91.9		%	1	1	09/13/2004	mmk		5806	IA-OA1

SAMPLE NO. 823052 **SAMPLE DESCRIPTION** MW-4 **DATE-TIME TAKEN** 09/10/2004 09:50

VOLATILE COMPOUNDS										
Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
Benzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/18/2004	dmd		5697	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/18/2004	dmd		5697	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/18/2004	dmd		5697	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823052	MW-4					09/10/2004 09:50				
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloromethane	0.31		ug/L	0.24	0.72	09/18/2004	dmd		5697	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/18/2004	dmd		5697	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
cis-1,2-Dichloroethene	1.89		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/18/2004	dmd		5697	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Hexachlorobutadiene	0.25	B	ug/L	0.22	0.66	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
823052	MW-4								09/10/2004 09:50	
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/18/2004	dmd		5697	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/18/2004	dmd		5697	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/18/2004	dmd		5697	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/18/2004	dmd		5697	SW 8260B
1,1,1-Trichloroethane	0.73		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/18/2004	dmd		5697	SW 8260B
Trichloroethylene	16.3		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Dibromofluoromethane (surr)	111		%			09/18/2004	dmd		5697	SW 8260B
Toluene-d8 (surr)	97		%			09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823052			SAMPLE DESCRIPTION MW-4			DATE-TIME TAKEN 09/10/2004 09:50				
4-Bromofluorobenzene (surr)	95		%			09/18/2004	dmd		5697	SW 8260B
VOA Preservation pH	<2		units	NA		09/20/2004	mnk		1051	SW 9041A

SAMPLE NO. 823053			SAMPLE DESCRIPTION SB-43 2'			DATE-TIME TAKEN 09/10/2004 10:45				
Solids, Total	98.26		%	0.01	0.01	09/13/2004	sas		2755	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.063		mg/kg dw	0.063	0.190	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.059		mg/kg dw	0.059	0.178	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.118	09/16/2004	ake	109	177	SW 8270C
Benizidine	<0.099		mg/kg dw	0.099	0.296	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.106	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.112	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.149	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.149	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.118	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.081		mg/kg dw	0.081	0.245	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.130	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.078		mg/kg dw	0.078	0.236	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.074		mg/kg dw	0.074	0.224	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
823053	SB-43 2'								09/10/2004 10:45	
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.097	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.260	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.146	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.118	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.105		mg/kg dw	0.105	0.314	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.070		mg/kg dw	0.070	0.21	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.055		mg/kg dw	0.055	0.166	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.091	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.077		mg/kg dw	0.077	0.233	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.048		mg/kg dw	0.048	0.142	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.130	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.104		mg/kg dw	0.104	0.311	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.278	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.108		mg/kg dw	0.108	0.324	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.142	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.127	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.142	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.066		mg/kg dw	0.066	0.199	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.060		mg/kg dw	0.060	0.18	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.109	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.053		mg/kg dw	0.053	0.160	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.088	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.058		mg/kg dw	0.058	0.175	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.067		mg/kg dw	0.067	0.203	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.082		mg/kg dw	0.082	0.248	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823053	SB-43 2'					09/10/2004 10:45				
Indeno (1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.094	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.059		mg/kg dw	0.059	0.178	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.064		mg/kg dw	0.064	0.193	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.073		mg/kg dw	0.073	0.221	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.070		mg/kg dw	0.070	0.21	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.059		mg/kg dw	0.059	0.178	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.069		mg/kg dw	0.069	0.209	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.076		mg/kg dw	0.076	0.230	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<0.112		mg/kg dw	0.112	0.336	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.103	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.083		mg/kg dw	0.083	0.251	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.115	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.113		mg/kg dw	0.113	0.339	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.073		mg/kg dw	0.073	0.221	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	63		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	63	OOO	%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	86		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.072		mg/kg dw	0.072	0.218	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.260	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.078		mg/kg dw	0.078	0.236	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.080		mg/kg dw	0.080	0.24	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.159		mg/kg dw	0.159	0.477	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.074		mg/kg dw	0.074	0.224	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.063		mg/kg dw	0.063	0.190	09/16/2004	ake	109	177	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551
 Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823053	SB-43 2'					09/10/2004 10:45				
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.084	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.106		mg/kg dw	0.106	0.318	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.113		mg/kg dw	0.113	0.339	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.066		mg/kg dw	0.066	0.199	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.077		mg/kg dw	0.077	0.233	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.077		mg/kg dw	0.077	0.233	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.069		mg/kg dw	0.069	0.209	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.054		mg/kg dw	0.054	0.163	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	65		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	58		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	91		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
5035 VOC Preservation	Complete					09/10/2004	sml		11	SW 846 - 5035
Solids, Total	95.05		%	0.01	0.01	09/13/2004	sas		2755	SM 2540 G
Arsenic, (GFAA) mdl	2.23		mg/kg dw	0.22	1.1	09/14/2004	mrm	911	631	SW 7060A
Mercury, mdl	0.097	B	mg/kg dw	0.0013	0.0045	09/15/2004	heh		2063	SW 7471A
GFAA Metals Digestion	1.075		g			09/14/2004	tdo	911		SW 3050 B
ICP Metals Prep (Solid)	1.161		g			09/17/2004	tdo	1506		SW 3050 B
ICP Metals-Solid mdl										

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
Barium, (ICP) mdl	52		mg/kg dw	0.205	0.53	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	31		mg/kg dw	0.25	0.88	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	11		mg/kg dw	0.41	1.1	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	42		mg/kg dw	5.3	5.3	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.9		mg/kg dw	7.9	7.9	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.1	09/20/2004	llw	1506	636	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	37.3		ug/kg dw	8.4	25	09/21/2004	mmk		1045	SW 8260B
Benzene	0.84		ug/kg dw	0.58	1.74	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.74		ug/kg dw	0.74	2.21	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.00	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.37		ug/kg dw	2.37	7.10	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.52		ug/kg dw	3.52	10.5	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.16		ug/kg dw	5.16	15.3	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.10	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.3		ug/kg dw	0.49	5.3	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.53	5.3	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.9	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.447		ug/kg dw	0.447	1.341	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.47		ug/kg dw	1.47	4.42	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.74		ug/kg dw	0.74	2.21	09/21/2004	mmk		1045	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.68	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.05	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.74	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.10		ug/kg dw	3.10	9.31	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.37	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.05	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.00	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.352		ug/kg dw	0.352	1.05	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.00	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.37	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.36	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.68	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.14	09/21/2004	mmk		1045	SW 8260
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.68	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.52	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.37	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	<0.58		ug/kg dw	0.58	1.74	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.05		ug/kg dw	3.05	9.15	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.10	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.14	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<53		ug/kg dw	7.4	53	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.74		ug/kg dw	0.74	2.10	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
MTBE	<5.00		ug/kg dw	5.00	14.9	09/21/2004	mnk		1045	SW 8260B
Naphthalene	<5.3		ug/kg dw	0.84	5.3	09/21/2004	mnk		1045	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.58	5.3	09/21/2004	mnk		1045	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.20	09/21/2004	mnk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.89		ug/kg dw	1.89	5.68	09/21/2004	mnk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/21/2004	mnk		1045	SW 8260B
Tetrachloroethene	<0.68		ug/kg dw	0.68	2.05	09/21/2004	mnk		1045	SW 8260B
Toluene	2.25		ug/kg dw	0.74	2.21	09/21/2004	mnk		1045	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/21/2004	mnk		1045	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/21/2004	mnk		1045	SW 8260B
1,1,1-Trichloroethane	26.2		ug/kg dw	1.10	3.31	09/21/2004	mnk		1045	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/21/2004	mnk		1045	SW 8260B
Trichloroethylene	48.6		ug/kg dw	1.0	3.00	09/21/2004	mnk		1045	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.41	09/21/2004	mnk		1045	SW 8260B
1,2,3-Trichloropropane	<0.95		ug/kg dw	0.95	2.8	09/21/2004	mnk		1045	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/21/2004	mnk		1045	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/21/2004	mnk		1045	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.37	09/21/2004	mnk		1045	SW 8260B
Xylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/21/2004	mnk		1045	SW 8260B
4-Bromofluorobenzene (surr)	99		%			09/21/2004	mnk		1045	SW 8260B
Dibromofluoromethane (surr)	97		%			09/21/2004	mnk		1045	SW 8260B
Toluene-d8 (surr)	93		%			09/21/2004	mnk		1045	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.34		mg/kg dw	0.34	0.985	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.32		mg/kg dw	0.32	0.922	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.609	09/16/2004	ake	109	177	SW 8270C

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
Benzidine	<0.52		mg/kg dw	0.52	1.54	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	0.2		mg/kg dw	0.19	0.547	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.578	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.766	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.766	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.609	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.42		mg/kg dw	0.42	1.27	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.672	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.41		mg/kg dw	0.41	1.22	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.39		mg/kg dw	0.39	1.16	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.50	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.35	09/16/2004	ake	109	177	SW 8270C
p-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.750	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.609	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.542		mg/kg dw	0.542	1.62	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.37		mg/kg dw	0.37	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.29		mg/kg dw	0.29	0.860	09/16/2004	ake	109	177	SW 8270C
Chrysene	0.2		mg/kg dw	0.16	0.47	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.734	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.672	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.537		mg/kg dw	0.537	1.60	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.48		mg/kg dw	0.48	1.44	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.44		mg/kg dw	0.44	1.34	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.558		mg/kg dw	0.558	1.66	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.734	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
823054	SB-42 2'					09/10/2004 10:55					
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.656	09/16/2004	ake	109	177	SW 8270C	
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.734	09/16/2004	ake	109	177	SW 8270C	
2,6-Dinitrotoluene	<0.35		mg/kg dw	0.35	1.03	09/16/2004	ake	109	177	SW 8270C	
Di-n-octylphthalate	<0.32		mg/kg dw	0.32	0.94	09/16/2004	ake	109	177	SW 8270C	
Fluoranthene	0.4		mg/kg dw	0.19	0.563	09/16/2004	ake	109	177	SW 8270C	
Fluorene	<0.27		mg/kg dw	0.27	0.828	09/16/2004	ake	109	177	SW 8270C	
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.46	09/16/2004	ake	109	177	SW 8270C	
Hexachlorocyclopentadiene	<0.31		mg/kg dw	0.31	0.906	09/16/2004	ake	109	177	SW 8270C	
Hexachloro-1,3-butadiene	<0.36		mg/kg dw	0.36	1.04	09/16/2004	ake	109	177	SW 8270C	
Hexachloroethane	<0.43		mg/kg dw	0.43	1.28	09/16/2004	ake	109	177	SW 8270C	
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.48	09/16/2004	ake	109	177	SW 8270C	
Isophorone	<0.32		mg/kg dw	0.32	0.922	09/16/2004	ake	109	177	SW 8270C	
2-Methylnaphthalene	<0.34		mg/kg dw	0.34	0.999	09/16/2004	ake	109	177	SW 8270C	
Naphthalene	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C	
2-Nitroaniline	<0.37		mg/kg dw	0.37	1.0	09/16/2004	ake	109	177	SW 8270C	
3-Nitroaniline	<0.32		mg/kg dw	0.32	0.922	09/16/2004	ake	109	177	SW 8270C	
4-Nitroaniline	<0.36		mg/kg dw	0.36	1.08	09/16/2004	ake	109	177	SW 8270C	
Nitrobenzene	<0.40		mg/kg dw	0.40	1.19	09/16/2004	ake	109	177	SW 8270C	
N-Nitrosodimethylamine	<0.578		mg/kg dw	0.578	1.73	09/16/2004	ake	109	177	SW 8270C	
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.531	09/16/2004	ake	109	177	SW 8270C	
N-Nitrosodi-n-propylamine	<0.44		mg/kg dw	0.44	1.29	09/16/2004	ake	109	177	SW 8270C	
Phenanthrene	0.4		mg/kg dw	0.20	0.593	09/16/2004	ake	109	177	SW 8270C	
Pyrene	0.4		mg/kg dw	0.26	0.78	09/16/2004	ake	109	177	SW 8270C	
Pyridine	<0.583		mg/kg dw	0.583	1.75	09/16/2004	ake	109	177	SW 8270C	
1,2,4-Trichlorobenzene	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C	
Nitrobenzene-d5 (surr)	81	OOO	%			09/16/2004	ake	109	177	SW 8270C	

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823054	SB-42 2'					09/10/2004 10:55				
2-Fluorobiphenyl (surr)	97		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	101		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.3	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.38		mg/kg dw	0.38	1.13	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.45		mg/kg dw	0.45	1.35	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.41		mg/kg dw	0.41	1.22	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.42		mg/kg dw	0.42	1.3	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.823		mg/kg dw	0.823	2.47	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.39		mg/kg dw	0.39	1.16	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.34		mg/kg dw	0.34	0.985	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.44	09/16/2004	ake	109	177	SW 8270C
3-Methyl-4,6-dinitrophenol	<0.547		mg/kg dw	0.547	1.64	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.583		mg/kg dw	0.583	1.75	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.35		mg/kg dw	0.35	1.03	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.36		mg/kg dw	0.36	1.08	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.28		mg/kg dw	0.28	0.844	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	72		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	61		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	104		%			09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823055	SAMPLE DESCRIPTION SB-44 2'								DATE-TIME TAKEN 09/10/2004 11:15	
5035 VOC Preservation	Complete					09/10/2004	sml		11	SW 846 - 5035
Solids, Total	97.33		%	0.01	0.01	09/13/2004	sas		2755	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	26.6		ug/kg dw	8.2	25	09/21/2004	mmk		1045	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.16	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.31		ug/kg dw	2.31	6.94	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.44		ug/kg dw	3.44	10.3	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.03		ug/kg dw	5.03	14.9	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.87		ug/kg dw	0.87	2.05	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.1		ug/kg dw	0.48	5.1	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.1		ug/kg dw	1.49	5.1	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<5.1		ug/kg dw	0.5	5.1	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.5	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.437		ug/kg dw	0.437	1.310	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.44		ug/kg dw	1.44	4.32	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.16	09/21/2004	mmk		1045	SW 8260B
Chloroform	<0.87		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.00	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.03		ug/kg dw	3.03	9.09	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.77		ug/kg dw	0.77	2.31	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823055	SB-44 2'					09/10/2004 11:15				
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.00	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	<0.82		ug/kg dw	0.82	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.344		ug/kg dw	0.344	1.03	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.31	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.87		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.11	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloropropene	<0.87		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.47	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.31	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	0.80		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<2.98		ug/kg dw	2.98	8.94	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.05	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.11	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<51		ug/kg dw	7.2	51	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.05	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.88		ug/kg dw	4.88	14.6	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.1		ug/kg dw	0.82	5.1	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<5.1		ug/kg dw	0.57	5.1	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.17	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.85		ug/kg dw	1.85	5.55	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823055	SB-44 2'					09/10/2004 11:15				
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk	1045	SW	8260B
Tetrachloroethene	<0.67		ug/kg dw	0.67	2.00	09/21/2004	mmk	1045	SW	8260B
Toluene	3.98		ug/kg dw	0.72	2.16	09/21/2004	mmk	1045	SW	8260B
1,2,3-Trichlorobenzene	<5.1		ug/kg dw	1.6	5.1	09/21/2004	mmk	1045	SW	8260B
1,2,4-Trichlorobenzene	<5.1		ug/kg dw	0.33	5.1	09/21/2004	mmk	1045	SW	8260B
1,1,1-Trichloroethane	<1.08		ug/kg dw	1.08	3.24	09/21/2004	mmk	1045	SW	8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/21/2004	mmk	1045	SW	8260B
Trichloroethylene	1.41		ug/kg dw	0.98	2.93	09/21/2004	mmk	1045	SW	8260B
Trichlorofluoromethane	0.67		ug/kg dw	0.45	1.38	09/21/2004	mmk	1045	SW	8260B
1,2,3-Trichloropropane	<0.92		ug/kg dw	0.92	2.8	09/21/2004	mmk	1045	SW	8260B
1,2,4-Trimethylbenzene	<5.1		ug/kg dw	1.4	5.1	09/21/2004	mmk	1045	SW	8260B
1,3,5-Trimethylbenzene	<5.1		ug/kg dw	2.4	5.1	09/21/2004	mmk	1045	SW	8260B
Vinyl Chloride	<0.77		ug/kg dw	0.77	2.31	09/21/2004	mmk	1045	SW	8260B
Xylenes, Total	<5.1		ug/kg dw	1.6	5.1	09/21/2004	mmk	1045	SW	8260B
4-Bromofluorobenzene (surr)	101		%			09/21/2004	mmk	1045	SW	8260B
Dibromofluoromethane (surr)	96		%			09/21/2004	mmk	1045	SW	8260B
Toluene-d8 (surr)	93		%			09/21/2004	mmk	1045	SW	8260B

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Arsenic, (GFAA) mdl		631	0.0375	mg/L	0.0393	105		09/14/2004
Mercury, mdl		2063	3.00	mg/L	3.23	108		09/15/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2802	5.00	mg/L	5.12	102		09/20/2004
Barium, (ICP) mdl		2802	5.00	mg/L	5.24	105		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.82	96		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.97	99		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	4.99	100		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	5.13	103		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	4.90	98		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	5.03	101		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.01	100		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.16	103		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	100.0	ug/L	94.9	95		09/18/2004
Chlorobenzene		5697	100.0	ug/L	94.7	95		09/18/2004
1,1-Dichloroethene		5697	100.0	ug/L	102	102		09/18/2004
Ethylbenzene		5697	100.0	ug/L	94.3	94		09/18/2004
MTBE		5697	100.0	ug/L	102	102		09/18/2004
1,2,4-Trimethylbenzene		5697	100.0	ug/L	88.4	88		09/18/2004
Toluene		5697	100.0	ug/L	94.2	94		09/18/2004
1,3,5-Trimethylbenzene		5697	100.0	ug/L	90.2	90		09/18/2004
Trichloroethylene		5697	100.0	ug/L	95.4	95		09/18/2004
Xylenes, Total		5697	300.0	ug/L	279	93		09/18/2004
Dibromofluoromethane (surr)		5697	100.0000	%	102	102		09/18/2004
Toluene-d8 (surr)		5697	100.0000	%	99.5	100		09/18/2004
4-Bromofluorobenzene (surr)		5697	100.0000	%	99.9	100		09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	50.0	ug/L	55.2	110		09/21/2004
Bromoform		1045	50.0	ug/L	57.3	115		09/21/2004
Chlorobenzene		1045	50.0	ug/L	52.4	105		09/21/2004

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HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
1,1-Dichloroethane		1045	50.0	ug/L	55.4	111		09/21/2004
1,1-Dichloroethene		1045	50.0	ug/L	56.8	114		09/21/2004
Ethylbenzene		1045	50.0	ug/L	52.3	105		09/21/2004
MTBE		1045	50.0	ug/L	55.3	111		09/21/2004
1,1,2,2-Tetrachloroethane		1045	50.0	ug/L	51.7	103		09/21/2004
Toluene		1045	50.0	ug/L	51.2	102		09/21/2004
Trichloroethylene		1045	50.0	ug/L	56.3	113		09/21/2004
1,2,4-Trimethylbenzene		1045	50.0	ug/L	51.7	103		09/21/2004
1,3,5-Trimethylbenzene		1045	50.0	ug/L	53.4	107		09/21/2004
Vinyl Chloride		1045	50.0	ug/L	62.4	125		09/21/2004
Xylenes, Total		1045	150.0	ug/L	154	103		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	103	103		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	98	98		09/21/2004
Toluene-d8 (surr)		1045	100	%	97	97		09/21/2004
BNA Soil 8270 MDL								
Acenaphthene		177	50	ug/L	52	104		09/16/2004
Bis(2-ethylhexyl)phthalate		177	50	ug/L	58	116		09/16/2004
1,4-Dichlorobenzene		177	50	ug/L	51	102		09/16/2004
2,4-Dinitrotoluene		177	50	ug/L	55	110		09/16/2004
N-Nitrosodi-n-propylamine		177	50	ug/L	52	104		09/16/2004
Pyrene		177	50	ug/L	57	114		09/16/2004
1,2,4-Trichlorobenzene		177	50	ug/L	52	104		09/16/2004
Nitrobenzene-d5 (surr)		177	50.0	%	52.8	106		09/16/2004
2-Fluorobiphenyl (surr)		177	50.0	%	52.2	104		09/16/2004
Terphenyl-d14 (surr)		177	50.0	%	56.2	112		09/16/2004
4-Chloro-3-methylphenol		177	50	ug/L	53	106		09/16/2004
2-chlorophenol		177	50	ug/L	54	108		09/16/2004
4-Nitrophenol		177	50	ug/L	57	114		09/16/2004
Pentachlorophenol		177	50	ug/L	58	116		09/16/2004
Phenol		177	50	ug/L	52	104		09/16/2004
Phenol-d6 (surr)		177	100	%	54	54		09/16/2004

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Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2-Fluorophenol (surr)		177	100	%	51	51		09/16/2004
Tribromophenol (surr)		177	100	%	56	56		09/16/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5417	2,500	mg/kg	2,510	100		09/19/2004
Gasoline		5417	2,500	mg/kg	2,190	88		09/19/2004
Motor Oil		5417	2,500	mg/kg	2,680	107		09/19/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5421	2,500	mg/kg	2,520	101		09/21/2004
Gasoline		5421	2,500	mg/kg	2,280	91		09/21/2004
Motor Oil		5421	2,500	mg/kg	2,460	98		09/21/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	100	mg/kg	107	107		09/13/2004
Toluene		5806	100	mg/kg	106	106		09/13/2004
Ethylbenzene		5806	100	mg/kg	112	112		09/13/2004
Xylenes, Total		5806	200	mg/kg	212	106		09/13/2004
4-Bromofluorobenzene (surr.)		5806	100.	%	105	105		09/13/2004

QUALITY CONTROL REPORT BLANKS

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09/28/2004

TestAmerica Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	911	631	<0.0021		mg/L	0.21	1.0	09/14/2004
Mercury, mdl		2063	0.0013	B	mg/kg	0.0012	0.0043	09/15/2004
Barium, (ICP) mdl	1506	2802	<0.0039		mg/L	0.195	0.50	09/20/2004
Cadmium, (ICP) mdl	1506	2808	<0.0048		mg/L	0.24	0.84	09/20/2004
Chromium, (ICP) mdl	1506	2807	<0.0078		mg/L	0.39	1.0	09/20/2004
Lead, (ICP) mdl	1506	2824	<0.10		mg/L	5.0	5.0	09/20/2004
Selenium, (ICP) mdl	1506	2801	<0.15		mg/L	7.5	7.5	09/20/2004
Silver, (ICP) mdl	1506	636	<0.0114		mg/L	0.57	1.0	09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Bromodichloromethane		5697	<0.46		ug/L	0.46	1.4	09/18/2004
Bromoform		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Bromomethane		5697	<0.62		ug/L	0.62	1.9	09/18/2004
Bromobenzene		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Carbon disulfide		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Bromochloromethane		5697	<0.40		ug/L	0.40	1.2	09/18/2004
Carbon tetrachloride		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Dibromomethane		5697	<0.44		ug/L	0.44	1.3	09/18/2004
Chlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
n-Butylbenzene		5697	0.15	B	ug/L	0.13	0.39	09/18/2004
sec-Butylbenzene		5697	<0.16		ug/L	0.16	0.48	09/18/2004
tert-Butylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chloroethane		5697	<0.12		ug/L	0.12	0.36	09/18/2004
Chloroform		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chloromethane		5697	<0.24		ug/L	0.24	0.72	09/18/2004
2-Chlorotoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
4-Chlorotoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chlorodibromomethane		5697	<0.42		ug/L	0.42	1.3	09/18/2004
1,2-Dibromo-3-chloropropane		5697	<0.30		ug/L	0.30	0.90	09/18/2004
1,2-Dibromoethane (EDB)		5697	<0.42		ug/L	0.42	1.3	09/18/2004
1,2-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,3-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,4-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004

QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		5697	<0.40		ug/L	0.4	1.2	09/18/2004
1,1-Dichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,2-Dichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Di-Isopropylether		5697	<0.32		ug/L	0.32	0.96	09/18/2004
1,3-Dichloropropane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
2,2-Dichloropropane		5697	<0.73		ug/L	0.73	2.2	09/18/2004
1,1-Dichloropropene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,1-Dichloroethene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
trans-1,2-Dichloroethene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
cis-1,2-Dichloroethene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
1,2-Dichloropropane		5697	<0.12		ug/L	0.12	0.36	09/18/2004
cis-1,3-Dichloropropene		5697	<0.43		ug/L	0.43	1.2	09/18/2004
trans-1,3-Dichloropropene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
Hexachlorobutadiene		5697	0.30	B	ug/L	0.22	0.66	09/18/2004
Ethylbenzene		5697	<0.43		ug/L	0.43	1.3	09/18/2004
Isopropylbenzene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
p-Isopropyltoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Hexane		5697	<0.18		ug/L	0.18	0.54	09/18/2004
MTBE		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Methylene chloride		5697	<0.63		ug/L	0.63	1.9	09/18/2004
Napthalene		5697	<0.86		ug/L	0.86	2.6	09/18/2004
n-Propylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Styrene		5697	<0.41		ug/L	0.41	1.2	09/18/2004
1,1,1,2-Tetrachloroethane		5697	<0.40		ug/L	0.40	1.2	09/18/2004
1,1,2,2-Tetrachloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,2,3-Trichlorobenzene		5697	1.08	B	ug/L	0.40	1.2	09/18/2004
1,2,4-Trichlorobenzene		5697	0.52	B	ug/L	0.25	0.75	09/18/2004
Tetrachloroethene		5697	<0.37		ug/L	0.37	1.1	09/18/2004
1,2,3-Trichloropropane		5697	<0.49		ug/L	0.49	1.5	09/18/2004
1,2,4-Trimethylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Toluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,3,5-Trimethylbenzene		5697	<0.14		ug/L	0.14	0.42	09/18/2004
1,1,1-Trichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004

QUALITY CONTROL REPORT BLANKS

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09/28/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,2-Trichloroethane		5697	<0.10		ug/L	0.10	0.3	09/18/2004
Trichloroethylene		5697	<0.43		ug/L	0.43	1.3	09/18/2004
Trichlorofluoromethane		5697	<0.47		ug/L	0.47	1.4	09/18/2004
Vinyl chloride		5697	<0.47		ug/L	0.47	1.4	09/18/2004
Xylenes, Total		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Dibromofluoromethane (surr)		5697	101.0		%			09/18/2004
Toluene-d8 (surr)		5697	91.0		%			09/18/2004
4-Bromofluorobenzene (surr)		5697	89.0		%			09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1045	<8.0		ug/kg	8.0	24	09/21/2004
Benzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Bromobenzene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Bromochloromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Bromodichloromethane		1045	<2.25		ug/kg	2.25	6.75	09/21/2004
Bromoform		1045	<3.35		ug/kg	3.35	10.0	09/21/2004
Bromomethane		1045	<4.90		ug/kg	4.90	14.5	09/21/2004
Methyl ethyl ketone (MEK)		1045	<0.85		ug/kg	0.85	2.00	09/21/2004
n-Butylbenzene		1045	<5.0		ug/kg	0.47	5.0	09/21/2004
sec-Butylbenzene		1045	<5.0		ug/kg	1.45	5.0	09/21/2004
tert-Butylbenzene		1045	<5.0		ug/kg	0.5	5.0	09/21/2004
Carbon tetrachloride		1045	<6.0		ug/kg	6.0	18.0	09/21/2004
Chlorobenzene		1045	<0.425		ug/kg	0.425	1.275	09/21/2004
Chlorodibromomethane		1045	<1.40		ug/kg	1.40	4.20	09/21/2004
Chloroethane		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Chloroform		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
Chloromethane		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
2-Chlorotoluene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
4-Chlorotoluene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
1,2-Dibromo-3-chloropropane		1045	<10		ug/kg	10	30	09/21/2004
1,2-Dibromoethane (EDB)		1045	<2.95		ug/kg	2.95	8.85	09/21/2004
Dibromomethane		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,3-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004

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1,4-Dichlorobenzene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Dichlorodifluoromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
1,1-Dichloroethane		1045	<0.80		ug/kg	0.80	2.4	09/21/2004
1,2-Dichloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,1-Dichloroethene		1045	<0.335		ug/kg	0.335	1.00	09/21/2004
cis-1,2-Dichloroethene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
trans-1,2-Dichloroethene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichloropropane		1045	<0.43		ug/kg	0.43	1.29	09/21/2004
1,3-Dichloropropane		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
2,2-Dichloropropane		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
1,1-Dichloropropene		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
cis-1,3-Dichloropropene		1045	<0.80		ug/kg	0.80	2.40	09/21/2004
trans-1,3-Dichloropropene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Ethylbenzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Hexachlorobutadiene		1045	<2.90		ug/kg	2.90	8.70	09/21/2004
2-Hexanone		1045	<0.55		ug/kg	0.55	2.00	09/21/2004
Isopropylbenzene		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
p-Isopropyltoluene		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
Methylene chloride		1045	<50		ug/kg	7.0	50	09/21/2004
Methyl isobutyl ketone		1045	<0.70		ug/kg	0.70	2.00	09/21/2004
MTBE		1045	<4.75		ug/kg	4.75	14.2	09/21/2004
Naphthalene		1045	<5.0		ug/kg	0.80	5.0	09/21/2004
n-Propylbenzene		1045	<5.0		ug/kg	0.55	5.0	09/21/2004
Styrene		1045	<0.38		ug/kg	0.38	1.14	09/21/2004
1,1,1,2-Tetrachloroethane		1045	<1.80		ug/kg	1.80	5.40	09/21/2004
1,1,2,2-Tetrachloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
Tetrachloroethene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Toluene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
1,2,3-Trichlorobenzene		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
1,2,4-Trichlorobenzene		1045	<5.0		ug/kg	0.32	5.0	09/21/2004
1,1,1-Trichloroethane		1045	<1.05		ug/kg	1.05	3.15	09/21/2004
1,1,2-Trichloroethane		1045	<1.2		ug/kg	1.2	3.6	09/21/2004
Trichloroethylene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichlorofluoromethane		1045	<0.44		ug/kg	0.44	1.34	09/21/2004
1,2,3-Trichloropropane		1045	<0.90		ug/kg	0.90	2.7	09/21/2004
1,2,4-Trimethylbenzene		1045	<5.0		ug/kg	1.4	5.0	09/21/2004
1,3,5-Trimethylbenzene		1045	<5.0		ug/kg	2.3	5.0	09/21/2004
Vinyl Chloride		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Xylenes, Total		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
4-Bromofluorobenzene (surr)		1045	97		%			09/21/2004
Dibromofluoromethane (surr)		1045	96		%			09/21/2004
Toluene-d8 (surr)		1045	95		%			09/21/2004
BNA Soil 8270 MDL								
Acenaphthene	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
Acenaphthylene	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
Anthracene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzidine	109	174	<0.098		mg/kg	0.098	0.294	09/16/2004
Benzo(a)anthracene	109	174	<0.035		mg/kg	0.035	0.105	09/16/2004
Benzo(b)fluoranthene	109	174	<0.037		mg/kg	0.037	0.111	09/16/2004
Benzo(k)fluoranthene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(a)pyrene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(ghi)perylene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzyl alcohol	109	174	<0.081		mg/kg	0.081	0.243	09/16/2004
Benzyl butyl phthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004
Bis(2-chloroethyl)ether	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
Bis(2-chloroethoxy)methane	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
Bis(2-ethylhexyl)phthalate	109	174	<0.032		mg/kg	0.032	0.096	09/16/2004
Bis(2chloroisopropyl)ether	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
4-Bromophenyl phenyl ether	109	174	<0.048		mg/kg	0.048	0.144	09/16/2004
Carbazole	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
4-Chloroaniline	109	174	<0.104		mg/kg	0.104	0.312	09/16/2004
2-Chloronaphthalene	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
4-Chlorophenylphenyl ether	109	174	<0.055		mg/kg	0.055	0.165	09/16/2004
Chrysene	109	174	<0.030		mg/kg	0.030	0.090	09/16/2004
Dibenzo(a,h)anthracene	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Dibenzofuran	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Di-n-butylphthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004
1,2-Dichlorobenzene	109	174	<0.103		mg/kg	0.103	0.309	09/16/2004
1,3-Dichlorobenzene	109	174	<0.092		mg/kg	0.092	0.276	09/16/2004
1,4-Dichlorobenzene	109	174	<0.085		mg/kg	0.085	0.255	09/16/2004
3,3-Dichlorobenzidine	109	174	<0.107		mg/kg	0.107	0.321	09/16/2004
Diethyl phthalate	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,4-Dinitrotoluene	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,6-Dinitrotoluene	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Di-n-octylphthalate	109	174	<0.060		mg/kg	0.060	0.18	09/16/2004
Fluorene	109	174	<0.053		mg/kg	0.053	0.159	09/16/2004
Hexachlorobenzene	109	174	<0.029		mg/kg	0.029	0.087	09/16/2004
Hexachlorocyclopentadiene	109	174	<0.058		mg/kg	0.058	0.174	09/16/2004
Hexachloro-1,3-butadiene	109	174	<0.067		mg/kg	0.067	0.201	09/16/2004
Hexachloroethane	109	174	<0.082		mg/kg	0.082	0.246	09/16/2004
Indeno (1,2,3-cd)pyrene	109	174	<0.031		mg/kg	0.031	0.093	09/16/2004
Isophorone	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
2-Methylnaphthalene	109	174	<0.064		mg/kg	0.064	0.192	09/16/2004
Naphthalene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
2-Nitroaniline	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
3-Nitroaniline	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
4-Nitroaniline	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004
Nitrobenzene	109	174	<0.076		mg/kg	0.076	0.228	09/16/2004
N-Nitrosodimethylamine	109	174	<0.111		mg/kg	0.111	0.333	09/16/2004
N-Nitrosodiphenylamine	109	174	<0.034		mg/kg	0.034	0.102	09/16/2004
N-Nitrosodi-n-propylamine	109	174	<0.083		mg/kg	0.083	0.249	09/16/2004
Phenanthrene	109	174	<0.038		mg/kg	0.038	0.114	09/16/2004
Pyrene	109	174	<0.050		mg/kg	0.050	0.15	09/16/2004
Pyridine	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
1,2,4-Trichlorobenzene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
Nitrobenzene-d5 (surr)	109	174	58.0		%			09/16/2004
2-Fluorobiphenyl (surr)	109	174	57.0	OOC	%			09/16/2004
Terphenyl-d14 (surr)	109	174	80.0		%			09/16/2004
Benzoic Acid	109	174	<0.33		mg/kg	0.33	0.99	09/16/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

TestAmerica Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
4-Chloro-3-methylphenol	109	174	<0.072		mg/kg	0.072	0.216	09/16/2004
2-chlorophenol	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
2-Methylphenol	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
4-Methylphenol	109	174	<0.080		mg/kg	0.080	0.24	09/16/2004
Cresols, Total	109	174	<0.158		mg/kg	0.158	0.474	09/16/2004
2,4-Dichlorophenol	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
2,4-Dimethylphenol	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
2,4-Dinitrophenol	109	174	<0.028		mg/kg	0.028	0.084	09/16/2004
2-Methyl-4,6-dinitrophenol	109	174	<0.105		mg/kg	0.105	0.315	09/16/2004
2-Nitrophenol	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
4-Nitrophenol	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Pentachlorophenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Phenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
2,4,5-Trichlorophenol	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004
2,4,6-Trichlorophenol	109	174	<0.054		mg/kg	0.054	0.162	09/16/2004
Phenol-d6 (surr)	109	174	57.0		%			09/16/2004
2-Fluorophenol (surr)	109	174	54.0		%			09/16/2004
Tribromophenol (surr)	109	174	91.0		%			09/16/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3182	5417	<10		mg/kg	10	10	09/19/2004
Diesel	3182	5417	<10		mg/kg	6.7	10	09/19/2004
Gasoline	3182	5417	<10		mg/kg	5.7	10	09/19/2004
Motor Oil	3182	5417	<10		mg/kg	7.1	10	09/19/2004
N-Octacosane (Surr.)	3182	5417	98		%	1.0	1.0	09/19/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	<0.25		mg/kg	0.197	0.25	09/13/2004
Toluene		5806	<0.5		mg/kg	0.212	0.5	09/13/2004
Ethylbenzene		5806	<0.5		mg/kg	0.224	0.5	09/13/2004
Xylenes, Total		5806	<0.5		mg/kg	0.216	0.5	09/13/2004
4-Bromofluorobenzene (surr.)		5806	92.5		%	1	1	09/13/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Arsenic, (GFAA) mdl	911	631	0.0400	mg/L	0.0390	98		09/14/2004
Mercury, mdl		2063	0.156	mg/kg	0.145	93	B	09/15/2004
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144	91		09/20/2004
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144	91		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383	94		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383	94		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731	97		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731	97		09/20/2004
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89	94		09/20/2004
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85	96		09/20/2004
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377	84		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	20.0	ug/L	21.8	109		09/18/2004
Chlorobenzene		5697	20.0	ug/L	21.2	106		09/18/2004
1,1-Dichloroethene		5697	20.0	ug/L	22.9	114		09/18/2004
Ethylbenzene		5697	20.0	ug/L	21.4	107		09/18/2004
MTBE		5697	20.0	ug/L	22.7	114		09/18/2004
1,2,4-Trimethylbenzene		5697	20.0	ug/L	20.7	104		09/18/2004
Toluene		5697	20.0	ug/L	21.8	109		09/18/2004
1,3,5-Trimethylbenzene		5697	20.0	ug/L	21.2	106		09/18/2004
Trichloroethylene		5697	20.0	ug/L	21.5	108		09/18/2004
Xylenes, Total		5697	60.0	ug/L	64.4	107		09/18/2004
Dibromofluoromethane (surr)		5697	100	%	103.0	103		09/18/2004
Toluene-d8 (surr)		5697	100	%	101.0	101		09/18/2004
4-Bromofluorobenzene (surr)		5697	100	%	98.0	98		09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	28.79	ug/kg	31.1	108		09/21/2004
Bromoform		1045	28.79	ug/kg	27.0	94		09/21/2004
Chlorobenzene		1045	28.79	ug/kg	28.7	100		09/21/2004
1,1-Dichloroethane		1045	28.79	ug/kg	32.4	112		09/21/2004
1,1-Dichloroethene		1045	28.79	ug/kg	32.2	112		09/21/2004
Ethylbenzene		1045	28.79	ug/kg	29.2	101		09/21/2004
MTBE		1045	28.79	ug/kg	34.4	120		09/21/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0	101		09/21/2004
Toluene		1045	28.79	ug/kg	29.5	102		09/21/2004
Trichloroethylene		1045	28.79	ug/kg	27.9	97		09/21/2004
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4	95		09/21/2004
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6	99		09/21/2004
Vinyl Chloride		1045	28.79	ug/kg	31.1	108		09/21/2004
Xylenes, Total		1045	86.38	ug/kg	87.2	101		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	102	102		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	99	99		09/21/2004
Toluene-d8 (surr)		1045	100	%	100	100		09/21/2004
BNA Soil 8270 MDL								
Acenaphthene	109	174	3.33	mg/kg	2.86	86		09/16/2004
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94	58		09/16/2004
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31	99		09/16/2004
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23	67		09/16/2004
Pyrene	109	174	3.33	mg/kg	3.41	102		09/16/2004
1,2,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01	60		09/16/2004
Nitrobenzene-d5 (surr)	109	174	100	%	62.0	62		09/16/2004
2-Fluorobiphenyl (surr)	109	174	100	%	76.0	76		09/16/2004
Terphenyl-d14 (surr)	109	174	100	%	84.0	84		09/16/2004
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89	87		09/16/2004
2-chlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
4-Nitrophenol	109	174	3.33	mg/kg	3.16	95		09/16/2004
Pentachlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
Phenol	109	174	3.33	mg/kg	2.02	61		09/16/2004
Phenol-d6 (surr)	109	174	100	%	61.0	61		09/16/2004
2-Fluorophenol (surr)	109	174	100	%	55.0	55		09/16/2004
Tribromophenol (surr)	109	174	100	%	93.0	93		09/16/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3182	5417	66.7	mg/kg	54.6	82		09/19/2004
N-Octacosane (Surr.)	3182	5417	1.0	%	120	12000		09/19/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5806	12.0	mg/kg	13.5	112		09/13/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Toluene		5806	12.0	mg/kg	13.3	111		09/13/2004
Ethylbenzene		5806	12.0	mg/kg	13.9	116		09/13/2004
Xylenes, Total		5806	24.1	mg/kg	26.5	110		09/13/2004
4-Bromofluorobenzene (surr.)		5806	100.	%	92.2	92		09/13/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job Number: 04.12551

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2755	98.26	98.41	%	0.2		09/13/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12551

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD	
	Batch	Batch	Spike									Result
Arsenic, (GFAA) mdl	911	631	5.27	0.971	4.02	mg/kg dw	107.0	5.39	3.90	mg/kg dw	113.2	2.1
Mercury, mdl		2063	12.4	3.2	10.6	mg/kg dw	87.5	10.6	10.8	mg/kg dw	68.4	16.3
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Cadmium, (ICP) mdl	1506	2808	93.0	<0.58	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Cadmium, (ICP) mdl	1506	2808	93.0	<0.24	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Silver, (ICP) mdl	1506	636	44.6	<0.57	49.2	mg/kg dw	90.6			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5697	19	<0.25	20	ug/L	95.0	20.4	20.0	ug/L	102.0	7.1
Chlorobenzene		5697	19	<0.25	20	ug/L	95.0	20.4	20.0	ug/L	102.0	7.1
1,1-Dichloroethene		5697	19	<0.25	20	ug/L	95.0	20.5	20.0	ug/L	102.5	7.6
Ethylbenzene		5697	17.2	<0.43	20.0	ug/L	86.0	17.7	20.0	ug/L	88.5	2.9
1,2,4-Trimethylbenzene		5697	9.1	<0.25	20.0	ug/L	45.5	9.6	20.0	ug/L	48.0	5.3
Toluene		5697	18	<0.25	20	ug/L	90.0	19.1	20.0	ug/L	95.5	5.9
1,3,5-Trimethylbenzene		5697	9.1	0.17	20.0	ug/L	44.7	9.2	20.0	ug/L	45.1	1.1
Trichloroethylene		5697	17.9	<0.43	20.0	ug/L	89.5	19.4	20.0	ug/L	97.0	8.0
VOA 8260 NON-AQUEOUS LRL												
Benzene		1045	<0.55	<0.55	42.03	ug/kg	0	<0.55	41.61	ug/kg	0	
Ethylbenzene		1045	<0.55	<0.55	42.03	ug/kg	0	<0.55	41.61	ug/kg	0	
MTBE		1045	<4.75	<4.75	42.03	ug/kg	0	<4.75	41.61	ug/kg	0	

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Cindy Quast

Job Number: 04.12551

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Toluene		1045	<0.70	<0.70	42.03	ug/kg	0	<0.70	41.61	ug/kg	0	
Xylenes, Total		1045	<5.0	<5.0	126.1	ug/kg	0	<5.0	124.8	ug/kg	0	
BNA Soil 8270 MDL												
Acenaphthene	109	177	3.3	<0.68	35.9	mg/kg dw	9.3	3.2	35.2	mg/kg dw	9.2	3.3
1,4-Dichlorobenzene	109	177	3.2	0.90	35.9	mg/kg dw	9.0	2.8	35.2	mg/kg dw	5.4	14.3
2,4-Dinitrotoluene	109	177	2.7	0.52	35.9	mg/kg dw	7.5	2.8	35.2	mg/kg dw	6.5	3.9
N-Nitrosodi-n-propylamine	109	177	2.4	0.90	35.9	mg/kg dw	6.6	2.8	35.2	mg/kg dw	5.4	16.7
Pyrene	109	177	4.1	1.2	35.9	mg/kg dw	8.1	3.9	35.2	mg/kg dw	7.7	5.4
1,2,4-Trichlorobenzene	109	177	3.5	<0.77	35.9	mg/kg dw	9.6	3.1	35.2	mg/kg dw	8.9	9.8
4-Chloro-3-methylphenol	109	177	2.8	<0.77	35.9	mg/kg dw	7.8	2.8	35.2	mg/kg dw	8.0	0.0
2-chlorophenol	109	177	2.9	0.92	35.9	mg/kg dw	8.1	3.0	35.2	mg/kg dw	6.0	3.6
4-Nitrophenol	109	177	1.8	<0.70	35.9	mg/kg dw	5.1	2.6	35.2	mg/kg dw	7.4	34.1
Pentachlorophenol	109	177	1.3	0.81	35.9	mg/kg dw	3.6	1.3	35.2	mg/kg dw	1.4	0.0
Phenol	109	177	2.6	0.81	35.9	mg/kg dw	7.2	2.6	35.2	mg/kg dw	5.1	0.0
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3182	5417	NA	<10	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3182	5417	58.7	<10	66.1	mg/kg	88.8	56.1	66.2	mg/kg	84.7	4.5
Motor Oil	3182	5417	NA	10.9	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5806	15.0	<0.25	12.1	mg/kg	124.0	15.7	11.7	mg/kg	134.2	4.6
Toluene		5806	15.0	<0.5	12.1	mg/kg	124.0	15.7	11.7	mg/kg	134.2	4.6
Ethylbenzene		5806	15.8	<0.5	12.1	mg/kg	130.6	16.4	11.7	mg/kg	140.2	3.7
Xylenes, Total		5806	29.9	<0.5	24.2	mg/kg	123.6	31.2	23.4	mg/kg	133.3	4.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 - 319-277-2401 - 800-750-2401 - FAX 319-277-2425

QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12551

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Arsenic, (GFAA) mdl	911	631	0.0400	mg/L	0.0390		97.5		80 - 120		20
Mercury, mdl		2063	0.156	mg/kg	0.145		92.9		80 - 115		20
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144		91.4		90 - 110		20
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144		91.4		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383		93.8		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383		93.8		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731		97.3		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731		97.3		90 - 110		20
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89		94.5		85 - 110		20
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85		96.3		90 - 110		20
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377		83.8		80 - 120		20
VOLATILE COMPOUNDS											
Benzene		5697	20.0	ug/L	21.8		109.0		81 - 124		27
Chlorobenzene		5697	20.0	ug/L	21.2		106.0		77 - 125		28
1,1-Dichloroethene		5697	20.0	ug/L	22.9		114.5		53 - 143		28
Ethylbenzene		5697	20.0	ug/L	21.4		107.0		65 - 140		24
1,2,4-Trimethylbenzene		5697	20.0	ug/L	22.7		113.5		70 - 133		26
Toluene		5697	20.0	ug/L	20.7		103.5		59 - 145		23
Toluene		5697	20.0	ug/L	21.8		109.0		73 - 127		21
1,3,5-Trimethylbenzene		5697	20.0	ug/L	21.2		106.0		63 - 141		24
Trichloroethylene		5697	20.0	ug/L	21.5		107.5		81 - 121		16
Xylenes, Total		5697	60.0	ug/L	64.4		107.3		75 - 130		20
Dibromofluoromethane (surr)		5697	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5697	100	%	101.0		101.0		76 - 120		50
4-Bromofluorobenzene (surr)		5697	100	%	98.0		98.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1045	28.79	ug/kg	31.1		108.0		68 - 158		20
Bromoform		1045	28.79	ug/kg	27.0		93.8		61 - 151		20
Chlorobenzene		1045	28.79	ug/kg	28.7		99.7		65 - 155		20
1,1-Dichloroethane		1045	28.79	ug/kg	32.4		112.5		64 - 154		20
1,1-Dichloroethene		1045	28.79	ug/kg	32.2		111.8		55 - 148		20
Ethylbenzene		1045	28.79	ug/kg	29.2		101.4		69 - 159		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

09/28/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.12551

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
MTBE		1045	28.79	ug/kg	34.4		119.5		71 - 161		20
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0		100.7		63 - 153		20
Toluene		1045	28.79	ug/kg	29.5		102.5		68 - 158		20
Trichloroethylene		1045	28.79	ug/kg	27.9		96.9		61 - 151		20
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4		95.2		68 - 158		20
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6		99.3		66 - 156		20
Vinyl Chloride		1045	28.79	ug/kg	31.1		108.0		47 - 137		20
Xylenes, Total		1045	86.38	ug/kg	87.2		100.9		69 - 159		20
4-Bromofluorobenzene (surr)		1045	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1045	100	%	99		99.0		56 - 146		
Toluene-d8 (surr)		1045	100	%	100		100.0		52 - 142		
BNA Soil 8270 MDL											
Acenaphthene	109	174	3.33	mg/kg	2.86		85.9		69 - 108		35
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94		58.3		49 - 96		35
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31		99.4		68 - 129		35
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23		67.0		53 - 105		35
Pyrene	109	174	3.33	mg/kg	3.41		102.4		68 - 117		35
1,2,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01		60.4		51 - 98		35
Nitrobenzene-d5 (surr)	109	174	100	%	62.0		62.0		56 - 113		
2-Fluorobiphenyl (surr)	109	174	100	%	76.0		76.0		67 - 107		
Terphenyl-d14 (surr)	109	174	100	%	84.0		84.0		66 - 115		
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89		86.8		67 - 115		35
2-chlorophenol	109	174	3.33	mg/kg	2.01		60.4		51 - 94		35
4-Nitrophenol	109	174	3.33	mg/kg	3.16		94.9		63 - 140		35
Pentachlorophenol	109	174	3.33	mg/kg	2.01		60.4		49 - 139		35
Phenol	109	174	3.33	mg/kg	2.02		60.7		50 - 98		35
Phenol-d6 (surr)	109	174	100	%	61.0		61.0		55 - 106		
2-Fluorophenol (surr)	109	174	100	%	55.0		55.0		52 - 96		
Tribromophenol (surr)	109	174	100	%	93.0		93.0		66 - 149		
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3182	5417	66.7	mg/kg	54.6		81.9		42 - 132		20
N-Octacosane (Surr.)	3182	5417	1.0	%	120		12000.		44 - 134		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

09/28/2004

Job No: 04.12551

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
VOLATILES - BTEX (NONAQUEO)											
Benzene		5806	12.0	mg/kg	13.5		112.5		78 - 151		20
Toluene		5806	12.0	mg/kg	13.3		110.8		79 - 151		20
Ethylbenzene		5806	12.0	mg/kg	13.9		115.8		79 - 157		20
Xylenes, Total		5806	24.1	mg/kg	26.5		110.0		76 - 149		20
4-Bromofluorobenzene (surr		5806	100.	%	92.2		92.2		78 - 124		

TestAmerica Job Number: 04.12551

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: _____

Date: 9-10-04 Receiver's Initials CH Time (Delivered): 14:10

Temperature Record

Cooler ID# (If Applicable)
QKZ-76
2° °C **On Ice**

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
 Samples(s) received within 6 hrs of sampling.
 Temperature not taken:

Log-In by:

JP MF **EM**

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job: 04.12715

Project Number: 722930 J23
Project: Chamberlain

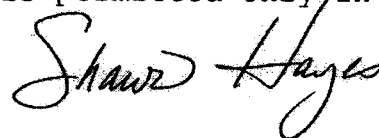
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
823856	TB-10	09/13/2004	09/14/2004
823857	SB-45 2'	09/13/2004	09/14/2004
823858	SB-45 6'	09/13/2004	09/14/2004
823859	MW-6	09/13/2004	09/14/2004
823860	SB-10 2'	09/14/2004	09/14/2004
823861	SB-10 14'	09/14/2004	09/14/2004
823862	SB-15 2'	09/14/2004	09/14/2004
823863	SB-15 4'	09/14/2004	09/14/2004
823864	SB-105 2'	09/14/2004	09/14/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823856	TB-10					09/13/2004 07:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/18/2004	dmd		5697	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/18/2004	dmd		5697	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloromethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
n-Butylbenzene	0.15	B	ug/L	0.13	0.39	09/18/2004	dmd		5697	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/18/2004	dmd		5697	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/18/2004	dmd		5697	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/18/2004	dmd		5697	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823856	TB-10					09/13/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/18/2004	dmd		5697	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/18/2004	dmd		5697	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/18/2004	dmd		5697	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
Hexachlorobutadiene	0.65	B	ug/L	0.22	0.66	09/18/2004	dmd		5697	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/18/2004	dmd		5697	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Hexane	0.30		ug/L	0.18	0.54	09/18/2004	dmd		5697	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/18/2004	dmd		5697	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/18/2004	dmd		5697	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichlorobenzene	0.54	B	ug/L	0.40	1.2	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823856	SAMPLE DESCRIPTION TB-10					DATE-TIME TAKEN 09/13/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/18/2004	dmd		5697	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/18/2004	dmd		5697	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/18/2004	dmd		5697	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/18/2004	dmd		5697	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/18/2004	dmd		5697	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/18/2004	dmd		5697	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/18/2004	dmd		5697	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/18/2004	dmd		5697	SW 8260B
1-Bromofluoromethane (surr)	107		%			09/18/2004	dmd		5697	SW 8260B
1,2-Dichlorobenzene-d8 (surr)	96		%			09/18/2004	dmd		5697	SW 8260B
1,4-Dibromofluorobenzene (surr)	96		%			09/18/2004	dmd		5697	SW 8260B
VOA Preservation pH	<2		units	NA		09/20/2004	mmk		1051	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
823857	SB-45 2'	09/13/2004 14:05
Solids, Total	97.42 %	0.01 0.01
Prep, PCB's Non-aqueous	COMPLETE	09/15/2004 sas 2758 SM 2540 G
PCB's Non-Aqueous		09/16/2004 acm 833 SW 3540

ANALYTICAL REPORT

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10/05/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823857	SB-45 2'					09/13/2004 14:05				
PCB-1016	<0.26		mg/kg dw	0.15	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1242	<0.26		mg/kg dw	0.050	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1260	<0.26		mg/kg dw	0.14	0.26	09/24/2004	kak	833	1891	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/24/2004	kak	833	1891	SW 8082
Decachlorobiphenyl (Surr.)	103		%	1	1	09/24/2004	kak	833	1891	SW 8082
Tetrachlorometaxylene (Surr.)	81		%	1	1	09/24/2004	kak	833	1891	SW 8082
Extraction Prep, soil	COMPLETE					09/15/2004	acm	3185		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	<10		mg/kg	10	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8
Diesel	<10		mg/kg	6.7	10	10/02/2004	ljm	3185	5436	IA-OA2/S-80
Gasoline	<10		mg/kg	5.7	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
Motor Oil	<10		mg/kg	7.1	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
N-Octacosane (Surr.)	90		%	1.0	1.0	10/02/2004	ljm	3185	5436	IA-OA2/S-8015

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823858	SB-45 6'					09/13/2004 14:45				
Extraction Prep, soil	COMPLETE					09/15/2004	acm	3185		IOWA-OA2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	<10		mg/kg	10	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
Motor Oil	<10		mg/kg	7.1	10	10/02/2004	ljm	3185	5436	IA-OA2/S-8015
N-Octacosane (Surr.)	91		%	1.0	1.0	10/02/2004	ljm	3185	5436	IA-OA2/S-8015

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823859	MW-6					09/13/2004 16:30				
Extraction Prep	COMPLETE					09/16/2004	acm	2695		IOWA-OA2
EXTRACTABLE HYDROCARBONS-WAT										
Total Extractable Hydrocarbo	491		ug/L	380	380	09/26/2004	ljm	2695	4702	IA-OA2/S-8015
Diesel	<380		ug/L	85	380	09/26/2004	ljm	2695	4702	IA-OA2/S-8015
Gasoline	<380		ug/L	129	380	09/26/2004	ljm	2695	4702	IA-OA2/S-8015
Motor Oil	491		ug/L	84	380	09/26/2004	ljm	2695	4702	IA-OA2/S-8015
N-Octacosane (Surr.)	136		%	100	100	09/26/2004	ljm	2695	4702	IA-OA2/S-8015
VOLATILES - BTEX (WATER)										
Benzene	<2.0		ug/L	0.06	2.0	09/17/2004	mmk		11024	IA-OA1
Toluene	<2.0		ug/L	0.079	2.0	09/17/2004	mmk		11024	IA-OA1
Ethylbenzene	<2.0		ug/L	0.233	2.0	09/17/2004	mmk		11024	IA-OA1

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10/05/2004

TestAmerica Job Number: 04.12715

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823859	MW-6					09/13/2004 16:30				

Xylenes, Total	<3.0		ug/L	0.311	3.0	09/17/2004	mmk		11024	IA-OA1
4-Bromofluorobenzene (surr.)	83.3		%	1	1	09/17/2004	mmk		11024	IA-OA1
VOA Preservation pH	<2.0		units	NA		09/17/2004	rlb		1048	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				

5035 VOC Preservation	Complete					09/16/2004	rlb		13	SW 846 - 5035
Solids, Total	96.33		%	0.01	0.01	09/15/2004	sas		2758	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/16/2004	acm	833		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	26.0		ug/kg dw	8.3	25	09/21/2004	mmk		1045	SW 8260B
Benzene	1.53		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

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 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/21/2004	mnk		1045	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/21/2004	mnk		1045	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/21/2004	mnk		1045	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/21/2004	mnk		1045	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mnk		1045	SW 8260B
Chloroform	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mnk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mnk		1045	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	mnk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mnk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mnk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/21/2004	mnk		1045	SW 8260B
bromomethane	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mnk		1045	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mnk		1045	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mnk		1045	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	mnk		1045	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mnk		1045	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/21/2004	mnk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mnk		1045	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/21/2004	mnk		1045	SW 8260B
cis-1,2-Dichloroethene	1.58		ug/kg dw	0.99	2.96	09/21/2004	mnk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mnk		1045	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/21/2004	mnk		1045	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mnk		1045	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mnk		1045	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mnk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/21/2004	mnk		1045	SW 8260B

ANALYTICAL REPORT

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10/05/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	1.14		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.03	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
Toluene	2.64		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	1.68		ug/kg dw	1.09	3.27	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	14.8		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.39	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

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10/05/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mnk		1045	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/21/2004	mnk		1045	SW 8260B
Dibromofluoromethane (surr)	103		%			09/21/2004	mnk		1045	SW 8260B
Toluene-d8 (surr)	96		%			09/21/2004	mnk		1045	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.194	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.182	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.302	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.108	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.114	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.051		mg/kg dw	0.051	0.152	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.051		mg/kg dw	0.051	0.152	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.083		mg/kg dw	0.083	0.250	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.045		mg/kg dw	0.045	0.133	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.099	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.088		mg/kg dw	0.088	0.265	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.050		mg/kg dw	0.050	0.148	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.107		mg/kg dw	0.107	0.321	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.169	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.092	09/16/2004	ake	109	177	SW 8270C

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10/05/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				
Dibenzo (a, h) anthracene	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.049		mg/kg dw	0.049	0.145	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.045		mg/kg dw	0.045	0.133	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.106		mg/kg dw	0.106	0.318	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.094		mg/kg dw	0.094	0.283	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.087		mg/kg dw	0.087	0.262	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.110		mg/kg dw	0.110	0.330	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.049		mg/kg dw	0.049	0.145	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.044		mg/kg dw	0.044	0.130	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.049		mg/kg dw	0.049	0.145	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.203	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.19	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.111	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.163	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.089	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.179	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.207	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.084		mg/kg dw	0.084	0.253	09/16/2004	ake	109	177	SW 8270C
Indeno (1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.096	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.182	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.197	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.225	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.182	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.078		mg/kg dw	0.078	0.235	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823860	SB-10 2'					09/14/2004 11:15				
N-Nitrosodimethylamine	<0.114		mg/kg dw	0.114	0.343	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.105	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.117	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.052		mg/kg dw	0.052	0.16	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.115		mg/kg dw	0.115	0.346	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.225	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	57		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	67		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	93		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/16/2004	ake	109	177	SW 8270C
2-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.222	09/16/2004	ake	109	177	SW 8270C
2-Chlorophenol	<0.088		mg/kg dw	0.088	0.265	09/16/2004	ake	109	177	SW 8270C
3-Methylphenol	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.082		mg/kg dw	0.082	0.25	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.162		mg/kg dw	0.162	0.487	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.194	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.086	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.108		mg/kg dw	0.108	0.324	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.115		mg/kg dw	0.115	0.346	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.203	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.166	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823860	SAMPLE DESCRIPTION SB-10 2'					DATE-TIME TAKEN 09/14/2004 11:15				
Phenol-d6 (surr)	59		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	52	OOO	%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	88		%			09/16/2004	ake	109	177	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/27/2004	kak	833	1893	SW 8082
Decachlorobiphenyl (Surr.)	105		%	1	1	09/27/2004	kak	833	1893	SW 8082
Tetrachlorometaxylene (Surr.)	91		%	1	1	09/27/2004	kak	833	1893	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
823861	SB-10 14'	09/14/2004 12:10
5035 VOC Preservation	Complete	09/16/2004 rlb 13 SW 846 - 5035
Solids, Total	81.39 %	09/15/2004 sas 2758 SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete	09/15/2004 acm 109 SW 3550
VOA 8260 NON-AQUEOUS LRL		

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823861	SB-10 14'					09/14/2004 12:10				
Acetone	<9.8		ug/kg dw	9.8	29	09/21/2004	mmk		1045	SW 8260B
Benzene	<0.68		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.86		ug/kg dw	0.86	2.58	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<1.2		ug/kg dw	1.2	3.50	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.76		ug/kg dw	2.76	8.29	09/21/2004	mmk		1045	SW 8260B
Bromoform	<4.12		ug/kg dw	4.12	12.3	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<6.02		ug/kg dw	6.02	17.8	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<1.0		ug/kg dw	1.0	2.46	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<6.1		ug/kg dw	0.58	6.1	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<6.1		ug/kg dw	1.78	6.1	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<6.1		ug/kg dw	0.6	6.1	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<7.4		ug/kg dw	7.4	22.1	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.522		ug/kg dw	0.522	1.567	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.72		ug/kg dw	1.72	5.16	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.86		ug/kg dw	0.86	2.58	09/21/2004	mmk		1045	SW 8260B
Chloroform	<1.0		ug/kg dw	1.0	3.13	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.8	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.80		ug/kg dw	0.80	2.40	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<12		ug/kg dw	12	37	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.62		ug/kg dw	3.62	10.9	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.92		ug/kg dw	0.92	2.76	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.1	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.1	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.80		ug/kg dw	0.80	2.40	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<1.2		ug/kg dw	1.2	3.50	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823861	SB-10 14'					09/14/2004 12:10				
1,1-Dichloroethane	<0.98		ug/kg dw	0.98	2.9	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.4		ug/kg dw	1.4	4.1	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.412		ug/kg dw	0.412	1.23	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	13.1		ug/kg dw	1.2	3.50	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.92		ug/kg dw	0.92	2.76	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.53		ug/kg dw	0.53	1.58	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<1.0		ug/kg dw	1.0	3.13	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/21/2004	mmk		1045	SW 8260
1,1-Dichloropropene	<1.0		ug/kg dw	1.0	3.13	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.98		ug/kg dw	0.98	2.95	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.92		ug/kg dw	0.92	2.76	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	<0.68		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.56		ug/kg dw	3.56	10.7	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.68		ug/kg dw	0.68	2.46	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.44		ug/kg dw	0.44	1.33	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.6		ug/kg dw	0.6	1.8	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<61		ug/kg dw	8.6	61	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.86		ug/kg dw	0.86	2.46	09/21/2004	mmk		1045	SW 8260B
MTBE	<5.84		ug/kg dw	5.84	17.4	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<6.1		ug/kg dw	0.98	6.1	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<6.1		ug/kg dw	0.68	6.1	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.47		ug/kg dw	0.47	1.40	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<2.21		ug/kg dw	2.21	6.63	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.4		ug/kg dw	1.4	4.1	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	<0.80		ug/kg dw	0.80	2.40	09/21/2004	mmk		1045	SW 8260B
Toluene	1.67		ug/kg dw	0.86	2.58	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823861	SB-10 14'					09/14/2004 12:10				
1,2,3-Trichlorobenzene	<6.1		ug/kg dw	2.0	6.1	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trichlorobenzene	<6.1		ug/kg dw	0.39	6.1	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	<1.29		ug/kg dw	1.29	3.87	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.5		ug/kg dw	1.5	4.4	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	25.7		ug/kg dw	1.2	3.50	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	<0.54		ug/kg dw	0.54	1.65	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<1.1		ug/kg dw	1.1	3.3	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	<6.1		ug/kg dw	1.7	6.1	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	<6.1		ug/kg dw	2.8	6.1	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.92		ug/kg dw	0.92	2.76	09/21/2004	mmk		1045	SW 8260B
Xylenes, Total	<6.1		ug/kg dw	2.0	6.1	09/21/2004	mmk		1045	SW 8260B
Bromofluorobenzene (surr)	89		%			09/21/2004	mmk		1045	SW 8260B
Bromofluoromethane (surr)	101		%			09/21/2004	mmk		1045	SW 8260B
Chluene-d8 (surr)	96		%			09/21/2004	mmk		1045	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.076		mg/kg dw	0.076	0.227	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
Benizidine	<0.12		mg/kg dw	0.12	0.354	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.042		mg/kg dw	0.042	0.127	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.044		mg/kg dw	0.044	0.134	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.059		mg/kg dw	0.059	0.177	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.059		mg/kg dw	0.059	0.177	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.097		mg/kg dw	0.097	0.292	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.052		mg/kg dw	0.052	0.155	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823861	SAMPLE DESCRIPTION SB-10 14'					DATE-TIME TAKEN 09/14/2004 12:10				
Bis(2-chloroethyl) ether	<0.093		mg/kg dw	0.093	0.281	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.090		mg/kg dw	0.090	0.268	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl) phthalate	<0.038		mg/kg dw	0.038	0.12	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl) ether	<0.10		mg/kg dw	0.10	0.311	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.058		mg/kg dw	0.058	0.173	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.047		mg/kg dw	0.047	0.141	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.125		mg/kg dw	0.125	0.376	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.085		mg/kg dw	0.085	0.26	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.066		mg/kg dw	0.066	0.199	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.036		mg/kg dw	0.036	0.11	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.092		mg/kg dw	0.092	0.278	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.057		mg/kg dw	0.057	0.170	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.052		mg/kg dw	0.052	0.155	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.124		mg/kg dw	0.124	0.372	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.11		mg/kg dw	0.11	0.332	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.10		mg/kg dw	0.10	0.307	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.129		mg/kg dw	0.129	0.387	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.057		mg/kg dw	0.057	0.170	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.050		mg/kg dw	0.050	0.151	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.057		mg/kg dw	0.057	0.170	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.080		mg/kg dw	0.080	0.238	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.043		mg/kg dw	0.043	0.130	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.064		mg/kg dw	0.064	0.192	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.034		mg/kg dw	0.034	0.10	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.070		mg/kg dw	0.070	0.210	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823861	SB-10 14'					09/14/2004 12:10				
Hexachloro-1,3-butadiene	<0.081		mg/kg dw	0.081	0.242	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.098		mg/kg dw	0.098	0.296	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.037		mg/kg dw	0.037	0.11	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.077		mg/kg dw	0.077	0.231	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.088		mg/kg dw	0.088	0.264	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.085		mg/kg dw	0.085	0.26	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.084		mg/kg dw	0.084	0.249	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.091		mg/kg dw	0.091	0.274	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<0.134		mg/kg dw	0.134	0.401	09/16/2004	ake	109	177	SW 8270C
Nitrosodiphenylamine	<0.041		mg/kg dw	0.041	0.123	09/16/2004	ake	109	177	SW 8270C
Nitrosodi-n-propylamine	<0.10		mg/kg dw	0.10	0.300	09/16/2004	ake	109	177	SW 8270C
Benanthrene	<0.045		mg/kg dw	0.045	0.138	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.060		mg/kg dw	0.060	0.18	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.135		mg/kg dw	0.135	0.404	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.088		mg/kg dw	0.088	0.264	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	57		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	46	OOO	%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	85		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<0.39		mg/kg dw	0.39	1.2	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.087		mg/kg dw	0.087	0.260	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.10		mg/kg dw	0.10	0.311	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.093		mg/kg dw	0.093	0.281	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.096		mg/kg dw	0.096	0.29	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.190		mg/kg dw	0.190	0.571	09/16/2004	ake	109	177	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823861	SAMPLE DESCRIPTION SB-10 14'					DATE-TIME TAKEN 09/14/2004 12:10				
2,4-Dichlorophenol	<0.090		mg/kg dw	0.090	0.268	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.076		mg/kg dw	0.076	0.227	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.033		mg/kg dw	0.033	0.10	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.127		mg/kg dw	0.127	0.380	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.135		mg/kg dw	0.135	0.404	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.080		mg/kg dw	0.080	0.238	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.092		mg/kg dw	0.092	0.278	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.092		mg/kg dw	0.092	0.278	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.084		mg/kg dw	0.084	0.249	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.065		mg/kg dw	0.065	0.195	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	63		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	56		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	80		%			09/16/2004	ake	109	177	SW 8270C

SAMPLE NO. 823862	SAMPLE DESCRIPTION SB-15 2'					DATE-TIME TAKEN 09/14/2004 15:15				
5035 VOC Preservation	Complete					09/16/2004	rlb		13	SW 846 - 5035
Solids, Total	96.33		%	0.01	0.01	09/15/2004	sas		2758	SM 2540 G
Arsenic, (GFAA) mdl	1.8	MSO	mg/kg dw	0.22	1.0	09/27/2004	heh	912	632	SW 7060A
Mercury, mdl	0.0090	B	mg/kg dw	0.0012	0.0045	09/23/2004	heh		2064	SW 7471A
GFAA Metals Digestion	1.061		g			09/15/2004	tdo	912		SW 3050 B

B - This analyte was detected in the method blank.
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
ICP Metals Prep (Solid)	1.014		g			09/17/2004	tdo	1506		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	32		mg/kg dw	0.202	0.52	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	1.0		mg/kg dw	0.25	0.87	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	10		mg/kg dw	0.40	1.0	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	9.1		mg/kg dw	5.2	5.2	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/20/2004	llw	1506	636	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/16/2004	acm	833		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	19.5		ug/kg dw	8.3	25	09/21/2004	mmk		1045	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
Chloroform	1.47		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	0.84		ug/kg dw	0.83	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	4.83		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mmk		1045	SW 8260
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.03	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	16.1		ug/kg dw	0.67	2.02	09/21/2004	mmk		1045	SW 8260B
Toluene	0.78		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mmk		1045	SW 8260B
2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	40.4		ug/kg dw	1.09	3.27	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	162		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	0.50		ug/kg dw	0.46	1.39	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mmk		1045	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/21/2004	mmk		1045	SW 8260B
Dibromofluoromethane (surr)	102		%			09/21/2004	mmk		1045	SW 8260B
Toluene-d8 (surr)	96		%			09/21/2004	mmk		1045	SW 8260B
BNA Soil 8270 MDL		R								

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
Acenaphthene	<0.33		mg/kg dw	0.33	0.981	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.31		mg/kg dw	0.31	0.919	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.607	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.51		mg/kg dw	0.51	1.53	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.545	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.576	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.763	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.763	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.607	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.42		mg/kg dw	0.42	1.27	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.670	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.50	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.34	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.747	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.607	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.540		mg/kg dw	0.540	1.62	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.29		mg/kg dw	0.29	0.856	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.47	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.732	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.670	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.535		mg/kg dw	0.535	1.60	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.48		mg/kg dw	0.48	1.43	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
1,4-Dichlorobenzene	<0.44		mg/kg dw	0.44	1.33	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.555		mg/kg dw	0.555	1.66	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.732	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.654	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.732	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.34		mg/kg dw	0.34	1.03	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.31		mg/kg dw	0.31	0.93	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.561	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.27		mg/kg dw	0.27	0.825	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.46	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.30		mg/kg dw	0.30	0.903	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.35		mg/kg dw	0.35	1.04	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.43		mg/kg dw	0.43	1.28	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.48	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.31		mg/kg dw	0.31	0.919	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.33		mg/kg dw	0.33	0.997	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.37		mg/kg dw	0.37	1.14	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.31		mg/kg dw	0.31	0.919	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.35		mg/kg dw	0.35	1.08	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.39		mg/kg dw	0.39	1.18	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<0.576		mg/kg dw	0.576	1.72	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.529	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.44		mg/kg dw	0.44	1.29	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.592	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.26		mg/kg dw	0.26	0.78	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823862	SB-15 2'					09/14/2004 15:15				
Pyridine	<0.581		mg/kg dw	0.581	1.74	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.37		mg/kg dw	0.37	1.14	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	79		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	96		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	96		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.2	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.37		mg/kg dw	0.37	1.12	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.45		mg/kg dw	0.45	1.34	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.40		mg/kg dw	0.40	1.21	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.42		mg/kg dw	0.42	1.2	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.820		mg/kg dw	0.820	2.46	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.38		mg/kg dw	0.38	1.15	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.33		mg/kg dw	0.33	0.981	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.44	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.545		mg/kg dw	0.545	1.64	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.581		mg/kg dw	0.581	1.74	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.34		mg/kg dw	0.34	1.03	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.39		mg/kg dw	0.39	1.20	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.35		mg/kg dw	0.35	1.08	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.28		mg/kg dw	0.28	0.841	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	76		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	63		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	111		%			09/16/2004	ake	109	177	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/27/2004	kak	833	1893	SW 8082

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
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10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823862	SAMPLE DESCRIPTION SB-15 2'					DATE-TIME TAKEN 09/14/2004 15:15				
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/27/2004	kak	833	1893	SW 8082
Decachlorobiphenyl (Surr.)	91		%	1	1	09/27/2004	kak	833	1893	SW 8082
Tetrachlorometaxylene (Surr.)	66		%	1	1	09/27/2004	kak	833	1893	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
823863	SB-15 4'	09/14/2004 15:55
5035 VOC Preservation Solids, Total	Complete 97.19	09/16/2004 rlb 13 2758
Arsenic, (GFAA) mdl	1.4	09/15/2004 sas 2540 G
Mercury, mdl	0.0068 B	09/27/2004 heh 912 632 SW 7060A
GFAA Metals Digestion	1.048	09/23/2004 heh 2064 SW 7471A
ICP Metals Prep (Solid)	1.021	09/15/2004 tdo 912 SW 3050 B
ICP Metals-Solid mdl		09/17/2004 tdo 1506 SW 3050 B
Barium, (ICP) mdl	27	09/20/2004 11w 1506 2802 SW 6010B
Cadmium, (ICP) mdl	0.30	09/20/2004 11w 1506 2808 SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
Chromium, (ICP) mdl	4.9		mg/kg dw	0.40	1.0	09/20/2004	11w	1506	2807	SW 6010B
Lead, (ICP) mdl	6.9		mg/kg dw	5.1	5.1	09/20/2004	11w	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.7		mg/kg dw	7.7	7.7	09/20/2004	11w	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/20/2004	11w	1506	636	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm	109		SW 3550
VOA 8260 NON-AQUEOUS LRL										
Acetone	25.0		ug/kg dw	8.2	25	09/21/2004	mmk		1045	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.72		ug/kg dw	0.72	2.16	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.32		ug/kg dw	2.32	6.95	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.45		ug/kg dw	3.45	10.3	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.04		ug/kg dw	5.04	14.9	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.87		ug/kg dw	0.87	2.06	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.1		ug/kg dw	0.48	5.1	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.1		ug/kg dw	1.49	5.1	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<5.1		ug/kg dw	0.5	5.1	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.5	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.437		ug/kg dw	0.437	1.312	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.44		ug/kg dw	1.44	4.32	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.72		ug/kg dw	0.72	2.16	09/21/2004	mmk		1045	SW 8260B
Chloroform	1.72		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.5	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.67		ug/kg dw	0.67	2.01	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
1,2-Dibromoethane (EDB)	<3.04		ug/kg dw	3.04	9.11	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.77		ug/kg dw	0.77	2.32	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.67		ug/kg dw	0.67	2.01	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<0.98		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	<0.82		ug/kg dw	0.82	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.345		ug/kg dw	0.345	1.03	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	5.73		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.77		ug/kg dw	0.77	2.32	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.44		ug/kg dw	0.44	1.33	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.87		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.11	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloropropene	<0.87		ug/kg dw	0.87	2.62	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.82		ug/kg dw	0.82	2.47	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.77		ug/kg dw	0.77	2.32	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.70	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<2.98		ug/kg dw	2.98	8.95	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.06	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.11	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.5	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<51		ug/kg dw	7.2	51	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.72		ug/kg dw	0.72	2.06	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.89		ug/kg dw	4.89	14.6	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.1		ug/kg dw	0.82	5.1	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
n-Propylbenzene	<5.1		ug/kg dw	0.57	5.1	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.17	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.85		ug/kg dw	1.85	5.56	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	33.5		ug/kg dw	0.67	2.01	09/21/2004	mmk		1045	SW 8260B
Toluene	<0.72		ug/kg dw	0.72	2.16	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichlorobenzene	<5.1		ug/kg dw	1.6	5.1	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trichlorobenzene	<5.1		ug/kg dw	0.33	5.1	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	46.9		ug/kg dw	1.08	3.24	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	224		ug/kg dw	0.98	2.93	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	0.74		ug/kg dw	0.45	1.38	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	<5.1		ug/kg dw	1.4	5.1	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	<5.1		ug/kg dw	2.4	5.1	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.77		ug/kg dw	0.77	2.32	09/21/2004	mmk		1045	SW 8260B
Xylenes, Total	<5.1		ug/kg dw	1.6	5.1	09/21/2004	mmk		1045	SW 8260B
4-Bromofluorobenzene (surr)	91		%			09/21/2004	mmk		1045	SW 8260B
Dibromofluoromethane (surr)	101		%			09/21/2004	mmk		1045	SW 8260B
Toluene-d8 (surr)	88		%			09/21/2004	mmk		1045	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.065		mg/kg dw	0.065	0.194	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.061		mg/kg dw	0.061	0.182	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.303	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.108	09/16/2004	ake	109	177	SW 8270C

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.114	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.151	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.151	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.083		mg/kg dw	0.083	0.250	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.133	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.099	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.088		mg/kg dw	0.088	0.265	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.148	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.120	09/16/2004	ake	109	177	SW 8270C
Chloroaniline	<0.107		mg/kg dw	0.107	0.321	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.057		mg/kg dw	0.057	0.170	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.093	09/16/2004	ake	109	177	SW 8270C
Dibenzo(a,h)anthracene	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.048		mg/kg dw	0.048	0.145	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.133	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.106		mg/kg dw	0.106	0.318	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.095		mg/kg dw	0.095	0.284	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.087		mg/kg dw	0.087	0.262	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.110		mg/kg dw	0.110	0.330	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.145	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.130	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.145	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
2,6-Dinitrotoluene	<0.068		mg/kg dw	0.068	0.204	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.062		mg/kg dw	0.062	0.19	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.111	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.055		mg/kg dw	0.055	0.164	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.090	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.060		mg/kg dw	0.060	0.179	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.069		mg/kg dw	0.069	0.207	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.084		mg/kg dw	0.084	0.253	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.096	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.061		mg/kg dw	0.061	0.182	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.066		mg/kg dw	0.066	0.198	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.225	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.072		mg/kg dw	0.072	0.22	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.061		mg/kg dw	0.061	0.182	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.078		mg/kg dw	0.078	0.235	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodimethylamine	<0.114		mg/kg dw	0.114	0.343	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.105	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.085		mg/kg dw	0.085	0.256	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	0.05		mg/kg dw	0.039	0.117	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.115		mg/kg dw	0.115	0.346	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.225	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	60		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	73		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	84		%			09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823863	SB-15 4'					09/14/2004 15:55				
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chloro-3-methylphenol	<0.074		mg/kg dw	0.074	0.222	09/16/2004	ake	109	177	SW 8270C
2-chlorophenol	<0.088		mg/kg dw	0.088	0.265	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.080		mg/kg dw	0.080	0.241	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.082		mg/kg dw	0.082	0.25	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.163		mg/kg dw	0.163	0.488	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.076		mg/kg dw	0.076	0.228	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.065		mg/kg dw	0.065	0.194	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.086	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.108		mg/kg dw	0.108	0.324	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.115		mg/kg dw	0.115	0.346	09/16/2004	ake	109	177	SW 8270C
3-Nitrophenol	<0.068		mg/kg dw	0.068	0.204	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.079		mg/kg dw	0.079	0.238	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.071		mg/kg dw	0.071	0.213	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.056		mg/kg dw	0.056	0.167	09/16/2004	ake	109	177	SW 8270C
Phenol-d6 (surr)	62		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	51	OOO	%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	89		%			09/16/2004	ake	109	177	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823864	SB-105 2'					09/14/2004 15:30				
5035 VOC Preservation Solids, Total	Complete					09/16/2004	rib		13	SW 846 - 5035
Arsenic, (GFAA) mdl	96.28		%	0.01	0.01	09/15/2004	sas		2758	SM 2540 G
Mercury, mdl	2.0		mg/kg dw	0.22	1.0	09/27/2004	heh	912	632	SW 7060A
GFAA Metals Digestion	0.0088	B	mg/kg dw	0.0012	0.0045	09/23/2004	heh		2064	SW 7471A
ICP Metals Prep (Solid)	1.045		g			09/15/2004	tdo	912		SW 3050 B
ICP Metals-Solid mdl	1.074		g			09/17/2004	tdo	1506		SW 3050 B
Barium, (ICP) mdl	33		mg/kg dw	0.203	0.52	09/20/2004	llw	1506	2802	SW 6010B
Cadmium, (ICP) mdl	1.0		mg/kg dw	0.25	0.87	09/20/2004	llw	1506	2808	SW 6010B
Chromium, (ICP) mdl	8.6		mg/kg dw	0.41	1.0	09/20/2004	llw	1506	2807	SW 6010B
Lead, (ICP) mdl	8.5		mg/kg dw	5.2	5.2	09/20/2004	llw	1506	2824	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/20/2004	llw	1506	2801	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/20/2004	llw	1506	636	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/15/2004	acm		109	SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/16/2004	acm		833	SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	19.9		ug/kg dw	8.3	25	09/21/2004	mmk		1045	SW 8260B
Benzene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.34		ug/kg dw	2.34	7.01	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.48		ug/kg dw	3.48	10.4	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.09		ug/kg dw	5.09	15.1	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.88		ug/kg dw	0.88	2.08	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/21/2004	mmk		1045	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO. 823864
 SAMPLE DESCRIPTION SB-105 2'

DATE-TIME TAKEN 09/14/2004 15:30

tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.2		ug/kg dw	6.2	18.7	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.441		ug/kg dw	0.441	1.324	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.45		ug/kg dw	1.45	4.36	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
Chloroform	1.72		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.06		ug/kg dw	3.06	9.19	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	0.85		ug/kg dw	0.83	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.348		ug/kg dw	0.348	1.04	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	5.06		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.34	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823864	SB-105 2'					09/14/2004 15:30				
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	<0.57		ug/kg dw	0.57	1.71	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.01		ug/kg dw	3.01	9.04	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.08	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.37		ug/kg dw	0.37	1.12	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.08	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.93		ug/kg dw	4.93	14.7	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.39		ug/kg dw	0.39	1.18	09/21/2004	mmk		1045	SW 8260B
1,1,1,2-Tetrachloroethane	<1.87		ug/kg dw	1.87	5.61	09/21/2004	mmk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
Tetrachloroethene	20.0		ug/kg dw	0.68	2.03	09/21/2004	mmk		1045	SW 8260B
Toluene	<0.73		ug/kg dw	0.73	2.18	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/21/2004	mmk		1045	SW 8260B
1,1,1-Trichloroethane	47.3		ug/kg dw	1.09	3.27	09/21/2004	mmk		1045	SW 8260B
1,1,2-Trichloroethane	<1.2		ug/kg dw	1.2	3.7	09/21/2004	mmk		1045	SW 8260B
Trichloroethylene	179		ug/kg dw	0.99	2.96	09/21/2004	mmk		1045	SW 8260B
Trichlorofluoromethane	0.46		ug/kg dw	0.46	1.39	09/21/2004	mmk		1045	SW 8260B
1,2,3-Trichloropropane	<0.93		ug/kg dw	0.93	2.8	09/21/2004	mmk		1045	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/21/2004	mmk		1045	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/21/2004	mmk		1045	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.34	09/21/2004	mmk		1045	SW 8260B

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823864	SB-105 2'					09/14/2004 15:30				
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mnk		1045	SW 8260B
4-Bromofluorobenzene (surr)	92		%			09/21/2004	mnk		1045	SW 8260B
Dibromofluoromethane (surr)	100		%			09/21/2004	mnk		1045	SW 8260B
Toluene-d8 (surr)	95		%			09/21/2004	mnk		1045	SW 8260B
BNA Soil 8270 MDL		R								
Acenaphthene	<0.33		mg/kg dw	0.33	0.972	09/16/2004	ake	109	177	SW 8270C
Acenaphthylene	<0.31		mg/kg dw	0.31	0.910	09/16/2004	ake	109	177	SW 8270C
Anthracene	<0.21		mg/kg dw	0.21	0.601	09/16/2004	ake	109	177	SW 8270C
Benzidine	<0.51		mg/kg dw	0.51	1.52	09/16/2004	ake	109	177	SW 8270C
Benzo(a)anthracene	<0.19		mg/kg dw	0.19	0.540	09/16/2004	ake	109	177	SW 8270C
Benzo(b)fluoranthene	<0.19		mg/kg dw	0.19	0.570	09/16/2004	ake	109	177	SW 8270C
Benzo(k)fluoranthene	<0.25		mg/kg dw	0.25	0.756	09/16/2004	ake	109	177	SW 8270C
Benzo(a)pyrene	<0.25		mg/kg dw	0.25	0.756	09/16/2004	ake	109	177	SW 8270C
Benzo(ghi)perylene	<0.21		mg/kg dw	0.21	0.601	09/16/2004	ake	109	177	SW 8270C
Benzyl alcohol	<0.42		mg/kg dw	0.42	1.26	09/16/2004	ake	109	177	SW 8270C
Benzyl butyl phthalate	<0.23		mg/kg dw	0.23	0.664	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethyl)ether	<0.41		mg/kg dw	0.41	1.20	09/16/2004	ake	109	177	SW 8270C
Bis(2-chloroethoxy)methane	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	109	177	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.50	09/16/2004	ake	109	177	SW 8270C
Bis(2chloroisopropyl)ether	<0.45		mg/kg dw	0.45	1.33	09/16/2004	ake	109	177	SW 8270C
4-Bromophenyl phenyl ether	<0.25		mg/kg dw	0.25	0.741	09/16/2004	ake	109	177	SW 8270C
Carbazole	<0.21		mg/kg dw	0.21	0.601	09/16/2004	ake	109	177	SW 8270C
4-Chloroaniline	<0.535		mg/kg dw	0.535	1.60	09/16/2004	ake	109	177	SW 8270C
2-Chloronaphthalene	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
4-Chlorophenylphenyl ether	<0.29		mg/kg dw	0.29	0.849	09/16/2004	ake	109	177	SW 8270C
Chrysene	<0.16		mg/kg dw	0.16	0.47	09/16/2004	ake	109	177	SW 8270C

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823864	SAMPLE DESCRIPTION SB-105 2'					DATE-TIME TAKEN 09/14/2004 15:30				
Dibenzo(a,h)anthracene	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
Dibenzofuran	<0.25		mg/kg dw	0.25	0.725	09/16/2004	ake	109	177	SW 8270C
Di-n-butylphthalate	<0.23		mg/kg dw	0.23	0.664	09/16/2004	ake	109	177	SW 8270C
1,2-Dichlorobenzene	<0.530		mg/kg dw	0.530	1.58	09/16/2004	ake	109	177	SW 8270C
1,3-Dichlorobenzene	<0.48		mg/kg dw	0.48	1.42	09/16/2004	ake	109	177	SW 8270C
1,4-Dichlorobenzene	<0.44		mg/kg dw	0.44	1.32	09/16/2004	ake	109	177	SW 8270C
3,3-Dichlorobenzidine	<0.550		mg/kg dw	0.550	1.64	09/16/2004	ake	109	177	SW 8270C
Diethyl phthalate	<0.25		mg/kg dw	0.25	0.725	09/16/2004	ake	109	177	SW 8270C
Dimethyl phthalate	<0.22		mg/kg dw	0.22	0.648	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrotoluene	<0.25		mg/kg dw	0.25	0.725	09/16/2004	ake	109	177	SW 8270C
2,6-Dinitrotoluene	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Di-n-octylphthalate	<0.31		mg/kg dw	0.31	0.92	09/16/2004	ake	109	177	SW 8270C
Fluoranthene	<0.19		mg/kg dw	0.19	0.556	09/16/2004	ake	109	177	SW 8270C
Fluorene	<0.27		mg/kg dw	0.27	0.817	09/16/2004	ake	109	177	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.46	09/16/2004	ake	109	177	SW 8270C
Hexachlorocyclopentadiene	<0.30		mg/kg dw	0.30	0.894	09/16/2004	ake	109	177	SW 8270C
Hexachloro-1,3-butadiene	<0.35		mg/kg dw	0.35	1.03	09/16/2004	ake	109	177	SW 8270C
Hexachloroethane	<0.43		mg/kg dw	0.43	1.27	09/16/2004	ake	109	177	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.48	09/16/2004	ake	109	177	SW 8270C
Isophorone	<0.31		mg/kg dw	0.31	0.910	09/16/2004	ake	109	177	SW 8270C
2-Methylnaphthalene	<0.33		mg/kg dw	0.33	0.987	09/16/2004	ake	109	177	SW 8270C
Naphthalene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	109	177	SW 8270C
2-Nitroaniline	<0.36		mg/kg dw	0.36	1.0	09/16/2004	ake	109	177	SW 8270C
3-Nitroaniline	<0.31		mg/kg dw	0.31	0.910	09/16/2004	ake	109	177	SW 8270C
4-Nitroaniline	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene	<0.39		mg/kg dw	0.39	1.17	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
823864	SB-105 2'					09/14/2004 15:30				
N-Nitrosodimethylamine	<0.570		mg/kg dw	0.570	1.70	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.525	09/16/2004	ake	109	177	SW 8270C
N-Nitrosodi-n-propylamine	<0.44		mg/kg dw	0.44	1.28	09/16/2004	ake	109	177	SW 8270C
Phenanthrene	<0.20		mg/kg dw	0.20	0.586	09/16/2004	ake	109	177	SW 8270C
Pyrene	<0.26		mg/kg dw	0.26	0.77	09/16/2004	ake	109	177	SW 8270C
Pyridine	<0.575		mg/kg dw	0.575	1.72	09/16/2004	ake	109	177	SW 8270C
1,2,4-Trichlorobenzene	<0.37		mg/kg dw	0.37	1.13	09/16/2004	ake	109	177	SW 8270C
Nitrobenzene-d5 (surr)	73		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorobiphenyl (surr)	91		%			09/16/2004	ake	109	177	SW 8270C
Terphenyl-d14 (surr)	105		%			09/16/2004	ake	109	177	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.2	09/16/2004	ake	109	177	SW 8270C
2-Chloro-3-methylphenol	<0.37		mg/kg dw	0.37	1.11	09/16/2004	ake	109	177	SW 8270C
2-Chlorophenol	<0.45		mg/kg dw	0.45	1.33	09/16/2004	ake	109	177	SW 8270C
2-Methylphenol	<0.41		mg/kg dw	0.41	1.20	09/16/2004	ake	109	177	SW 8270C
4-Methylphenol	<0.42		mg/kg dw	0.42	1.2	09/16/2004	ake	109	177	SW 8270C
Cresols, Total	<0.812		mg/kg dw	0.812	2.44	09/16/2004	ake	109	177	SW 8270C
2,4-Dichlorophenol	<0.38		mg/kg dw	0.38	1.14	09/16/2004	ake	109	177	SW 8270C
2,4-Dimethylphenol	<0.33		mg/kg dw	0.33	0.972	09/16/2004	ake	109	177	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.44	09/16/2004	ake	109	177	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.540		mg/kg dw	0.540	1.62	09/16/2004	ake	109	177	SW 8270C
2-Nitrophenol	<0.575		mg/kg dw	0.575	1.72	09/16/2004	ake	109	177	SW 8270C
4-Nitrophenol	<0.34		mg/kg dw	0.34	1.02	09/16/2004	ake	109	177	SW 8270C
Pentachlorophenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
Phenol	<0.39		mg/kg dw	0.39	1.19	09/16/2004	ake	109	177	SW 8270C
2,4,5-Trichlorophenol	<0.35		mg/kg dw	0.35	1.07	09/16/2004	ake	109	177	SW 8270C
2,4,6-Trichlorophenol	<0.28		mg/kg dw	0.28	0.833	09/16/2004	ake	109	177	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 823864	SAMPLE DESCRIPTION SB-105 2'					DATE-TIME TAKEN 09/14/2004 15:30				
Phenol-d6 (surr)	74		%			09/16/2004	ake	109	177	SW 8270C
2-Fluorophenol (surr)	61		%			09/16/2004	ake	109	177	SW 8270C
Tribromophenol (surr)	111		%			09/16/2004	ake	109	177	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	09/27/2004	kak	833	1893	SW 8082
PCB-1268	<0.26		mg/kg dw	0.065	0.26	09/27/2004	kak	833	1893	SW 8082
Decachlorobiphenyl (Surr.)	98		%	1	1	09/27/2004	kak	833	1893	SW 8082
Tetrachlorometaxylene (Surr.)	81		%	1	1	09/27/2004	kak	833	1893	SW 8082

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ANALYTICAL TESTING CORPORATION

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Arsenic, (GFAA) mdl		632	0.0250	mg/L	0.02694	108		09/27/2004
Mercury, mdl		2064	1.00	mg/L	1.08	108		09/23/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2802	5.00	mg/L	5.12	102		09/20/2004
Barium, (ICP) mdl		2802	5.00	mg/L	5.24	105		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.82	96		09/20/2004
Cadmium, (ICP) mdl		2808	5.00	mg/L	4.97	99		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	4.99	100		09/20/2004
Chromium, (ICP) mdl		2807	5.00	mg/L	5.13	103		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	4.90	98		09/20/2004
Lead, (ICP) mdl		2824	5.00	mg/L	5.03	101		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.01	100		09/20/2004
Selenium, (ICP) mdl		2801	5.00	mg/L	5.16	103		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	100.0	ug/L	94.9	95		09/18/2004
Chlorobenzene		5697	100.0	ug/L	94.7	95		09/18/2004
1,1-Dichloroethene		5697	100.0	ug/L	102	102		09/18/2004
Ethylbenzene		5697	100.0	ug/L	94.3	94		09/18/2004
MTBE		5697	100.0	ug/L	102	102		09/18/2004
1,2,4-Trimethylbenzene		5697	100.0	ug/L	88.4	88		09/18/2004
Toluene		5697	100.0	ug/L	94.2	94		09/18/2004
1,3,5-Trimethylbenzene		5697	100.0	ug/L	90.2	90		09/18/2004
Trichloroethylene		5697	100.0	ug/L	95.4	95		09/18/2004
Xylenes, Total		5697	300.0	ug/L	279	93		09/18/2004
Dibromofluoromethane (surr)		5697	100.0000	%	102	102		09/18/2004
Toluene-d8 (surr)		5697	100.0000	%	99.5	100		09/18/2004
4-Bromofluorobenzene (surr)		5697	100.0000	%	99.9	100		09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	50.0	ug/L	55.2	110		09/21/2004
Bromoform		1045	50.0	ug/L	57.3	115		09/21/2004
Chlorobenzene		1045	50.0	ug/L	52.4	105		09/21/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep	Run	CCV	Units	CCV	CCV	Date
	Batch	Batch	True		Conc	%	
	No.	No.	Value		Found	Rec	Flag Analyzed
1,1-Dichloroethane		1045	50.0	ug/L	55.4	111	09/21/2004
1,1-Dichloroethene		1045	50.0	ug/L	56.8	114	09/21/2004
Ethylbenzene		1045	50.0	ug/L	52.3	105	09/21/2004
MTBE		1045	50.0	ug/L	55.3	111	09/21/2004
1,1,2,2-Tetrachloroethane		1045	50.0	ug/L	51.7	103	09/21/2004
Toluene		1045	50.0	ug/L	51.2	102	09/21/2004
Trichloroethylene		1045	50.0	ug/L	56.3	113	09/21/2004
1,2,4-Trimethylbenzene		1045	50.0	ug/L	51.7	103	09/21/2004
1,3,5-Trimethylbenzene		1045	50.0	ug/L	53.4	107	09/21/2004
Vinyl Chloride		1045	50.0	ug/L	62.4	125	09/21/2004
Xylenes, Total		1045	150.0	ug/L	154	103	09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	103	103	09/21/2004
Dibromofluoromethane (surr)		1045	100	%	98	98	09/21/2004
Toluene-d8 (surr)		1045	100	%	97	97	09/21/2004
BNA Soil 8270 MDL							
Acenaphthene		177	50	ug/L	52	104	09/16/2004
Bis(2-ethylhexyl)phthalate		177	50	ug/L	58	116	09/16/2004
1,4-Dichlorobenzene		177	50	ug/L	51	102	09/16/2004
2,4-Dinitrotoluene		177	50	ug/L	55	110	09/16/2004
N-Nitrosodi-n-propylamine		177	50	ug/L	52	104	09/16/2004
Pyrene		177	50	ug/L	57	114	09/16/2004
1,2,4-Trichlorobenzene		177	50	ug/L	52	104	09/16/2004
Nitrobenzene-d5 (surr)		177	50.0	%	52.8	106	09/16/2004
2-Fluorobiphenyl (surr)		177	50.0	%	52.2	104	09/16/2004
Terphenyl-d14 (surr)		177	50.0	%	56.2	112	09/16/2004
4-Chloro-3-methylphenol		177	50	ug/L	53	106	09/16/2004
2-chlorophenol		177	50	ug/L	54	108	09/16/2004
4-Nitrophenol		177	50	ug/L	57	114	09/16/2004
Pentachlorophenol		177	50	ug/L	58	116	09/16/2004
Phenol		177	50	ug/L	52	104	09/16/2004
Phenol-d6 (surr)		177	50	%	54	108	09/16/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2-Fluorophenol (surr)		177	50	%	51	102		09/16/2004
Tribromophenol (surr)		177	50	%	56	112		09/16/2004
PCB's Non-Aqueous								
PCB-1248		1891	0.64	ppm	0.66	103		09/24/2004
Decachlorobiphenyl (Surr.)		1891	100	%	106	106		09/24/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	103	103		09/24/2004
PCB's Non-Aqueous								
PCB-1221		1891	0.96	ppm	0.90	94		09/24/2004
Decachlorobiphenyl (Surr.)		1891	100	%	95	95		09/24/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	93	93		09/24/2004
PCB's Non-Aqueous								
PCB-1248		1891	0.64	ppm	0.64	100		09/25/2004
Decachlorobiphenyl (Surr.)		1891	100	%	105	105		09/25/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	102	102		09/25/2004
PCB's Non-Aqueous								
PCB-1221		1891	0.96	ppm	0.89	93		09/25/2004
Decachlorobiphenyl (Surr.)		1891	100	%	96	96		09/25/2004
Tetrachlorometaxylene (Surr.)		1891	100	%	94	94		09/25/2004
PCB's Non-Aqueous								
PCB-1260		1893	0.96	ppm	0.93	97		09/27/2004
Decachlorobiphenyl (Surr.)		1893	100	%	105	105		09/27/2004
Tetrachlorometaxylene (Surr.)		1893	100	%	103	103		09/27/2004
PCB's Non-Aqueous								
PCB-1260		1893	0.96	ppm	0.92	96		09/27/2004
Decachlorobiphenyl (Surr.)		1893	100	%	103	103		09/27/2004
Tetrachlorometaxylene (Surr.)		1893	100	%	103	103		09/27/2004
EXTRACTABLE HYDROCARBONS-WATER								
Diesel		4702	2,500	ppm	2,820	113		09/25/2004
Gasoline		4702	2,500	ppm	2,330	93		09/25/2004
Motor Oil		4702	2,500	ppm	2,780	111		09/25/2004
EXTRACTABLE HYDROCARBONS-SOIL								

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Diesel		5436	2,500	mg/kg	2,550	102		10/01/2004
Gasoline		5436	2,500	mg/kg	2,440	98		10/01/2004
Motor Oil		5436	2,500	mg/kg	2,470	99		10/01/2004
VOLATILES - BTEX (WATER)								
Benzene		11024	100.	ug/L	97.2	97		09/17/2004
Toluene		11024	100.	ug/L	97.2	97		09/17/2004
Ethylbenzene		11024	100.	ug/L	97.1	97		09/17/2004
Xylenes, Total		11024	200	ug/L	192	96		09/17/2004
4-Bromofluorobenzene (surr.)		11024	100.0	%	97.9	98		09/17/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	912	632	<0.0021		mg/L	0.21	1.0	09/27/2004
Mercury, mdl		2064	0.0026	B	mg/kg	0.0012	0.0043	09/23/2004
Barium, (ICP) mdl	1506	2802	<0.0039		mg/L	0.195	0.50	09/20/2004
Cadmium, (ICP) mdl	1506	2808	<0.0048		mg/L	0.24	0.84	09/20/2004
Chromium, (ICP) mdl	1506	2807	<0.0078		mg/L	0.39	1.0	09/20/2004
Lead, (ICP) mdl	1506	2824	<0.10		mg/L	5.0	5.0	09/20/2004
Selenium, (ICP) mdl	1506	2801	<0.15		mg/L	7.5	7.5	09/20/2004
Silver, (ICP) mdl	1506	636	<0.0114		mg/L	0.57	1.0	09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Bromodichloromethane		5697	<0.46		ug/L	0.46	1.4	09/18/2004
Bromoform		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Bromomethane		5697	<0.62		ug/L	0.62	1.9	09/18/2004
Bromobenzene		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Carbon disulfide		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Bromochloromethane		5697	<0.40		ug/L	0.40	1.2	09/18/2004
Carbon tetrachloride		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Dibromomethane		5697	<0.44		ug/L	0.44	1.3	09/18/2004
Chlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
n-Butylbenzene		5697	0.15	B	ug/L	0.13	0.39	09/18/2004
sec-Butylbenzene		5697	<0.16		ug/L	0.16	0.48	09/18/2004
tert-Butylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chloroethane		5697	<0.12		ug/L	0.12	0.36	09/18/2004
Chloroform		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chloromethane		5697	<0.24		ug/L	0.24	0.72	09/18/2004
2-Chlorotoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
4-Chlorotoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Chlorodibromomethane		5697	<0.42		ug/L	0.42	1.3	09/18/2004
1,2-Dibromo-3-chloropropane		5697	<0.30		ug/L	0.30	0.90	09/18/2004
1,2-Dibromoethane (EDB)		5697	<0.42		ug/L	0.42	1.3	09/18/2004
1,2-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,3-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,4-Dichlorobenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dichlorodifluoromethane		5697	<0.40		ug/L	0.4	1.2	09/18/2004
1,1-Dichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,2-Dichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Di-Isopropylether		5697	<0.32		ug/L	0.32	0.96	09/18/2004
1,3-Dichloropropane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
2,2-Dichloropropane		5697	<0.73		ug/L	0.73	2.2	09/18/2004
1,1-Dichloropropene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,1-Dichloroethene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
trans-1,2-Dichloroethene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
cis-1,2-Dichloroethene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
1,2-Dichloropropane		5697	<0.12		ug/L	0.12	0.36	09/18/2004
cis-1,3-Dichloropropene		5697	<0.43		ug/L	0.43	1.2	09/18/2004
trans-1,3-Dichloropropene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
Hexachlorobutadiene		5697	0.30	B	ug/L	0.22	0.66	09/18/2004
Ethylbenzene		5697	<0.43		ug/L	0.43	1.3	09/18/2004
Isopropylbenzene		5697	<0.44		ug/L	0.44	1.3	09/18/2004
p-Isopropyltoluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Hexane		5697	<0.18		ug/L	0.18	0.54	09/18/2004
MTBE		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Methylene chloride		5697	<0.63		ug/L	0.63	1.9	09/18/2004
Napthalene		5697	<0.86		ug/L	0.86	2.6	09/18/2004
n-Propylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Styrene		5697	<0.41		ug/L	0.41	1.2	09/18/2004
1,1,1,2-Tetrachloroethane		5697	<0.40		ug/L	0.40	1.2	09/18/2004
1,1,2,2-Tetrachloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,2,3-Trichlorobenzene		5697	1.08	B	ug/L	0.40	1.2	09/18/2004
1,2,4-Trichlorobenzene		5697	0.52	B	ug/L	0.25	0.75	09/18/2004
Tetrachloroethene		5697	<0.37		ug/L	0.37	1.1	09/18/2004
1,2,3-Trichloropropane		5697	<0.49		ug/L	0.49	1.5	09/18/2004
1,2,4-Trimethylbenzene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
Toluene		5697	<0.25		ug/L	0.25	0.75	09/18/2004
1,3,5-Trimethylbenzene		5697	<0.14		ug/L	0.14	0.42	09/18/2004
1,1,1-Trichloroethane		5697	<0.25		ug/L	0.25	0.75	09/18/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,2-Trichloroethane		5697	<0.10		ug/L	0.10	0.3	09/18/2004
Trichloroethylene		5697	<0.43		ug/L	0.43	1.3	09/18/2004
Trichlorofluoromethane		5697	<0.47		ug/L	0.47	1.4	09/18/2004
Vinyl chloride		5697	<0.47		ug/L	0.47	1.4	09/18/2004
Xylenes, Total		5697	<0.38		ug/L	0.38	1.1	09/18/2004
Dibromofluoromethane (surr)		5697	101.0		%			09/18/2004
Toluene-d8 (surr)		5697	91.0		%			09/18/2004
4-Bromofluorobenzene (surr)		5697	89.0		%			09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1045	<8.0		ug/kg	8.0	24	09/21/2004
Benzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Bromobenzene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Bromochloromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Bromodichloromethane		1045	<2.25		ug/kg	2.25	6.75	09/21/2004
Bromoform		1045	<3.35		ug/kg	3.35	10.0	09/21/2004
Bromomethane		1045	<4.90		ug/kg	4.90	14.5	09/21/2004
Methyl ethyl ketone (MEK)		1045	<0.85		ug/kg	0.85	2.00	09/21/2004
n-Butylbenzene		1045	<5.0		ug/kg	0.47	5.0	09/21/2004
sec-Butylbenzene		1045	<5.0		ug/kg	1.45	5.0	09/21/2004
tert-Butylbenzene		1045	<5.0		ug/kg	0.5	5.0	09/21/2004
Carbon tetrachloride		1045	<6.0		ug/kg	6.0	18.0	09/21/2004
Chlorobenzene		1045	<0.425		ug/kg	0.425	1.275	09/21/2004
Chlorodibromomethane		1045	<1.40		ug/kg	1.40	4.20	09/21/2004
Chloroethane		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Chloroform		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
Chloromethane		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
2-Chlorotoluene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
4-Chlorotoluene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
1,2-Dibromo-3-chloropropane		1045	<10		ug/kg	10	30	09/21/2004
1,2-Dibromoethane (EDB)		1045	<2.95		ug/kg	2.95	8.85	09/21/2004
Dibromomethane		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,3-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,4-Dichlorobenzene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Dichlorodifluoromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
1,1-Dichloroethane		1045	<0.80		ug/kg	0.80	2.4	09/21/2004
1,2-Dichloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,1-Dichloroethene		1045	<0.335		ug/kg	0.335	1.00	09/21/2004
cis-1,2-Dichloroethene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
trans-1,2-Dichloroethene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichloropropane		1045	<0.43		ug/kg	0.43	1.29	09/21/2004
1,3-Dichloropropane		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
2,2-Dichloropropane		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
1,1-Dichloropropene		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
cis-1,3-Dichloropropene		1045	<0.80		ug/kg	0.80	2.40	09/21/2004
trans-1,3-Dichloropropene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Ethylbenzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Hexachlorobutadiene		1045	<2.90		ug/kg	2.90	8.70	09/21/2004
2-Hexanone		1045	<0.55		ug/kg	0.55	2.00	09/21/2004
Isopropylbenzene		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
p-Isopropyltoluene		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
Methylene chloride		1045	<50		ug/kg	7.0	50	09/21/2004
Methyl isobutyl ketone		1045	<0.70		ug/kg	0.70	2.00	09/21/2004
MTBE		1045	<4.75		ug/kg	4.75	14.2	09/21/2004
Naphthalene		1045	<5.0		ug/kg	0.80	5.0	09/21/2004
n-Propylbenzene		1045	<5.0		ug/kg	0.55	5.0	09/21/2004
Styrene		1045	<0.38		ug/kg	0.38	1.14	09/21/2004
1,1,1,2-Tetrachloroethane		1045	<1.80		ug/kg	1.80	5.40	09/21/2004
1,1,2,2-Tetrachloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
Tetrachloroethene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Toluene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
1,2,3-Trichlorobenzene		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
1,2,4-Trichlorobenzene		1045	<5.0		ug/kg	0.32	5.0	09/21/2004
1,1,1-Trichloroethane		1045	<1.05		ug/kg	1.05	3.15	09/21/2004
1,1,2-Trichloroethane		1045	<1.2		ug/kg	1.2	3.6	09/21/2004
Trichloroethylene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/05/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Trichlorofluoromethane		1045	<0.44		ug/kg	0.44	1.34	09/21/2004
1,2,3-Trichloropropane		1045	<0.90		ug/kg	0.90	2.7	09/21/2004
1,2,4-Trimethylbenzene		1045	<5.0		ug/kg	1.4	5.0	09/21/2004
1,3,5-Trimethylbenzene		1045	<5.0		ug/kg	2.3	5.0	09/21/2004
Vinyl Chloride		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Xylenes, Total		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
4-Bromofluorobenzene (surr)		1045	97		%			09/21/2004
Dibromofluoromethane (surr)		1045	96		%			09/21/2004
Toluene-d8 (surr)		1045	95		%			09/21/2004
BNA Soil 8270 MDL								
Acenaphthene	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
Acenaphthylene	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
Anthracene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzydine	109	174	<0.098		mg/kg	0.098	0.294	09/16/2004
Benzo(a)anthracene	109	174	<0.035		mg/kg	0.035	0.105	09/16/2004
Benzo(b)fluoranthene	109	174	<0.037		mg/kg	0.037	0.111	09/16/2004
Benzo(k)fluoranthene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(a)pyrene	109	174	<0.049		mg/kg	0.049	0.147	09/16/2004
Benzo(ghi)perylene	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
Benzyl alcohol	109	174	<0.081		mg/kg	0.081	0.243	09/16/2004
Benzyl butyl phthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004
Bis(2-chloroethyl)ether	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
Bis(2-chloroethoxy)methane	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
Bis(2-ethylhexyl)phthalate	109	174	<0.032		mg/kg	0.032	0.096	09/16/2004
Bis(2chloroisopropyl)ether	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
4-Bromophenyl phenyl ether	109	174	<0.048		mg/kg	0.048	0.144	09/16/2004
Carbazole	109	174	<0.039		mg/kg	0.039	0.117	09/16/2004
4-Chloroaniline	109	174	<0.104		mg/kg	0.104	0.312	09/16/2004
2-Chloronaphthalene	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
4-Chlorophenylphenyl ether	109	174	<0.055		mg/kg	0.055	0.165	09/16/2004
Chrysene	109	174	<0.030		mg/kg	0.030	0.090	09/16/2004
Dibenzo(a,h)anthracene	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Dibenzofuran	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/05/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Di-n-butylphthalate	109	174	<0.043		mg/kg	0.043	0.129	09/16/2004
1,2-Dichlorobenzene	109	174	<0.103		mg/kg	0.103	0.309	09/16/2004
1,3-Dichlorobenzene	109	174	<0.092		mg/kg	0.092	0.276	09/16/2004
1,4-Dichlorobenzene	109	174	<0.085		mg/kg	0.085	0.255	09/16/2004
3,3-Dichlorobenzidine	109	174	<0.107		mg/kg	0.107	0.321	09/16/2004
Diethyl phthalate	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,4-Dinitrotoluene	109	174	<0.047		mg/kg	0.047	0.141	09/16/2004
2,6-Dinitrotoluene	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Di-n-octylphthalate	109	174	<0.060		mg/kg	0.060	0.18	09/16/2004
Fluorene	109	174	<0.053		mg/kg	0.053	0.159	09/16/2004
Hexachlorobenzene	109	174	<0.029		mg/kg	0.029	0.087	09/16/2004
Hexachlorocyclopentadiene	109	174	<0.058		mg/kg	0.058	0.174	09/16/2004
Hexachloro-1,3-butadiene	109	174	<0.067		mg/kg	0.067	0.201	09/16/2004
Hexachloroethane	109	174	<0.082		mg/kg	0.082	0.246	09/16/2004
Indeno(1,2,3-cd)pyrene	109	174	<0.031		mg/kg	0.031	0.093	09/16/2004
Isophorone	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
2-Methylnaphthalene	109	174	<0.064		mg/kg	0.064	0.192	09/16/2004
Naphthalene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
2-Nitroaniline	109	174	<0.070		mg/kg	0.070	0.21	09/16/2004
3-Nitroaniline	109	174	<0.059		mg/kg	0.059	0.177	09/16/2004
4-Nitroaniline	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004
Nitrobenzene	109	174	<0.076		mg/kg	0.076	0.228	09/16/2004
N-Nitrosodimethylamine	109	174	<0.111		mg/kg	0.111	0.333	09/16/2004
N-Nitrosodiphenylamine	109	174	<0.034		mg/kg	0.034	0.102	09/16/2004
N-Nitrosodi-n-propylamine	109	174	<0.083		mg/kg	0.083	0.249	09/16/2004
Phenanthrene	109	174	<0.038		mg/kg	0.038	0.114	09/16/2004
Pyrene	109	174	<0.050		mg/kg	0.050	0.15	09/16/2004
Pyridine	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
1,2,4-Trichlorobenzene	109	174	<0.073		mg/kg	0.073	0.219	09/16/2004
Nitrobenzene-d5 (surr)	109	174	58.0		%			09/16/2004
2-Fluorobiphenyl (surr)	109	174	57.0	OOC	%			09/16/2004
Terphenyl-d14 (surr)	109	174	80.0		%			09/16/2004
Benzoic Acid	109	174	<0.33		mg/kg	0.33	0.99	09/16/2004

QUALITY CONTROL REPORT BLANKS

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10/05/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
4-Chloro-3-methylphenol	109	174	<0.072		mg/kg	0.072	0.216	09/16/2004
2-chlorophenol	109	174	<0.086		mg/kg	0.086	0.258	09/16/2004
2-Methylphenol	109	174	<0.078		mg/kg	0.078	0.234	09/16/2004
4-Methylphenol	109	174	<0.080		mg/kg	0.080	0.24	09/16/2004
Cresols, Total	109	174	<0.158		mg/kg	0.158	0.474	09/16/2004
2,4-Dichlorophenol	109	174	<0.074		mg/kg	0.074	0.222	09/16/2004
2,4-Dimethylphenol	109	174	<0.063		mg/kg	0.063	0.189	09/16/2004
2,4-Dinitrophenol	109	174	<0.028		mg/kg	0.028	0.084	09/16/2004
2-Methyl-4,6-dinitrophenol	109	174	<0.105		mg/kg	0.105	0.315	09/16/2004
2-Nitrophenol	109	174	<0.112		mg/kg	0.112	0.336	09/16/2004
4-Nitrophenol	109	174	<0.066		mg/kg	0.066	0.198	09/16/2004
Pentachlorophenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
Phenol	109	174	<0.077		mg/kg	0.077	0.231	09/16/2004
2,4,5-Trichlorophenol	109	174	<0.069		mg/kg	0.069	0.207	09/16/2004
2,4,6-Trichlorophenol	109	174	<0.054		mg/kg	0.054	0.162	09/16/2004
Phenol-d6 (surr)	109	174	57.0		%			09/16/2004
2-Fluorophenol (surr)	109	174	54.0		%			09/16/2004
Tribromophenol (surr)	109	174	91.0		%			09/16/2004
PCB's Non-Aqueous								
PCB-1016	833	1891	<0.25		mg/kg	0.15	0.25	09/24/2004
PCB-1221	833	1891	<0.25		mg/kg	0.19	0.25	09/24/2004
PCB-1232	833	1891	<0.25		mg/kg	0.029	0.25	09/24/2004
PCB-1242	833	1891	<0.25		mg/kg	0.049	0.25	09/24/2004
PCB-1248	833	1891	<0.25		mg/kg	0.019	0.25	09/24/2004
PCB-1254	833	1891	<0.25		mg/kg	0.025	0.25	09/24/2004
PCB-1260	833	1891	<0.25		mg/kg	0.14	0.25	09/24/2004
PCB-1268	833	1891	<0.25		mg/kg	0.063	0.25	09/24/2004
Decachlorobiphenyl (Surr.)	833	1891	103		%	1	1	09/24/2004
Tetrachlorometaxylene (Surr.)	833	1891	76		%	1	1	09/24/2004
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	2695	4702	<380		ug/L	380	380	09/25/2004
Diesel	2695	4702	<380		ug/L	85	380	09/25/2004
Gasoline	2695	4702	<380		ug/L	129	380	09/25/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/05/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Motor Oil	2695	4702	<380		ug/L	84	380	09/25/2004
N-Octacosane (Surr.)	2695	4702	120		%	100	100	09/25/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3185	5436	<10		mg/kg	10	10	10/02/2004
Diesel	3185	5436	<10		mg/kg	6.7	10	10/02/2004
Gasoline	3185	5436	<10		mg/kg	5.7	10	10/02/2004
Motor Oil	3185	5436	<10		mg/kg	7.1	10	10/02/2004
N-Octacosane (Surr.)	3185	5436	97		%	1.0	1.0	10/02/2004
VOLATILES - BTEX (WATER)								
Benzene		11024	<2.0		ug/L	0.06	2.0	09/17/2004
Toluene		11024	<2.0		ug/L	0.079	2.0	09/17/2004
Ethylbenzene		11024	<2.0		ug/L	0.233	2.0	09/17/2004
Xylenes, Total		11024	<3.0		ug/L	0.311	3.0	09/17/2004
4-Bromofluorobenzene (surr.)		11024	84.6		%	1	1	09/17/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Arsenic, (GFAA) mdl	912	632	0.0400	mg/L	0.04012	100		09/27/2004
Mercury, mdl		2064	0.154	mg/kg	0.132	86	B	09/23/2004
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144	91		09/20/2004
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144	91		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383	94		09/20/2004
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383	94		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731	97		09/20/2004
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731	97		09/20/2004
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89	94		09/20/2004
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85	96		09/20/2004
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377	84		09/20/2004
VOLATILE COMPOUNDS								
Benzene		5697	20.0	ug/L	21.8	109		09/18/2004
Chlorobenzene		5697	20.0	ug/L	21.2	106		09/18/2004
1,1-Dichloroethene		5697	20.0	ug/L	22.9	114		09/18/2004
Ethylbenzene		5697	20.0	ug/L	21.4	107		09/18/2004
MTBE		5697	20.0	ug/L	22.7	114		09/18/2004
1,2,4-Trimethylbenzene		5697	20.0	ug/L	20.7	104		09/18/2004
Toluene		5697	20.0	ug/L	21.8	109		09/18/2004
1,3,5-Trimethylbenzene		5697	20.0	ug/L	21.2	106		09/18/2004
Trichloroethylene		5697	20.0	ug/L	21.5	108		09/18/2004
Xylenes, Total		5697	60.0	ug/L	64.4	107		09/18/2004
Dibromofluoromethane (surr)		5697	100	%	103.0	103		09/18/2004
Toluene-d8 (surr)		5697	100	%	101.0	101		09/18/2004
4-Bromofluorobenzene (surr)		5697	100	%	98.0	98		09/18/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	28.79	ug/kg	31.1	108		09/21/2004
Bromoform		1045	28.79	ug/kg	27.0	94		09/21/2004
Chlorobenzene		1045	28.79	ug/kg	28.7	100		09/21/2004
1,1-Dichloroethane		1045	28.79	ug/kg	32.4	112		09/21/2004
1,1-Dichloroethene		1045	28.79	ug/kg	32.2	112		09/21/2004
Ethylbenzene		1045	28.79	ug/kg	29.2	101		09/21/2004
MTBE		1045	28.79	ug/kg	34.4	120		09/21/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0	101		09/21/2004
Toluene		1045	28.79	ug/kg	29.5	102		09/21/2004
Trichloroethylene		1045	28.79	ug/kg	27.9	97		09/21/2004
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4	95		09/21/2004
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6	99		09/21/2004
Vinyl Chloride		1045	28.79	ug/kg	31.1	108		09/21/2004
Xylenes, Total		1045	86.38	ug/kg	87.2	101		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	102	102		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	99	99		09/21/2004
Toluene-d8 (surr)		1045	100	%	100	100		09/21/2004
BNA Soil 8270 MDL								
Acenaphthene	109	174	3.33	mg/kg	2.86	86		09/16/2004
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94	58		09/16/2004
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31	99		09/16/2004
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23	67		09/16/2004
Pyrene	109	174	3.33	mg/kg	3.41	102		09/16/2004
1,2,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01	60		09/16/2004
Nitrobenzene-d5 (surr)	109	174	100	%	62.0	62		09/16/2004
2-Fluorobiphenyl (surr)	109	174	100	%	76.0	76		09/16/2004
Terphenyl-d14 (surr)	109	174	100	%	84.0	84		09/16/2004
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89	87		09/16/2004
2-Chlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
4-Nitrophenol	109	174	3.33	mg/kg	3.16	95		09/16/2004
Pentachlorophenol	109	174	3.33	mg/kg	2.01	60		09/16/2004
Phenol	109	174	3.33	mg/kg	2.02	61		09/16/2004
Phenol-d6 (surr)	109	174	100	%	61.0	61		09/16/2004
2-Fluorophenol (surr)	109	174	100	%	55.0	55		09/16/2004
Tribromophenol (surr)	109	174	100	%	93.0	93		09/16/2004
PCB's Non-Aqueous								
PCB-1221	833	1894	0.17	mg/kg	0.14	82		09/27/2004
Decachlorobiphenyl (Surr.)	833	1894	100	%	114	114		09/27/2004
Tetrachlorometaxylene (Surr.)	833	1894	100	%	90	90		09/27/2004
EXTRACTABLE HYDROCARBONS-WATER								

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Gasoline	2695	4702	2,000	ug/L	1,640	82		09/25/2004
N-Octacosane (Surr.)	2695	4702	100	%	123	123		09/25/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3185	5436	66.7	mg/kg	59.8	90		10/02/2004
N-Octacosane (Surr.)	3185	5436	100	%	93	93		10/02/2004
VOLATILES - BTEX (WATER)								
Benzene		11024	100	ug/L	86.6	87		09/17/2004
Toluene		11024	100.	ug/L	89.8	90		09/17/2004
Ethylbenzene		11024	100.	ug/L	91.0	91		09/17/2004
Xylenes, Total		11024	200	ug/L	183	92		09/17/2004
4-Bromofluorobenzene (surr.)		11024	100.0	%	86.2	86		09/17/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12715

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2758	97.42	97.51	%	0.1		09/15/2004	20
Solids, Total		2758	78.10	76.51	%	2.1		09/15/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12715

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike		Percent Recovery	MS/MSD RPD
									Amount	Units		
Arsenic, (GFAA) mdl	912	632	4.61	1.8	4.05	mg/kg dw	70.3	4.79	3.96	mg/kg dw	76.4	3.8
Mercury, mdl		2064	0.155	0.066	0.129	mg/kg dw	69.4	0.199	0.167	mg/kg dw	79.9	24.8
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Barium, (ICP) mdl	1506	2802	119	27	96.5	mg/kg dw	95.6	120	94.7	mg/kg dw	98.6	0.9
Cadmium, (ICP) mdl	1506	2808	93.0	<0.58	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Cadmium, (ICP) mdl	1506	2808	93.0	<0.24	96.5	mg/kg dw	96.4	91.5	94.7	mg/kg dw	96.6	1.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Chromium, (ICP) mdl	1506	2807	101	4.6	96.5	mg/kg dw	99.7	100	94.7	mg/kg dw	100.9	0.7
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Lead, (ICP) mdl	1506	2824	200	15	193	mg/kg dw	95.7	199	190	mg/kg dw	96.8	0.5
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Selenium, (ICP) mdl	1506	2801	386	<7.5	386	mg/kg dw	100.0	382	379	mg/kg dw	100.8	1.1
Silver, (ICP) mdl	1506	636	44.6	<0.57	49.2	mg/kg dw	90.6			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5697	19	<0.25	20	ug/L	95.0	20.4	20.0	ug/L	102.0	7.1
Chlorobenzene		5697	19	<0.25	20	ug/L	95.0	20.4	20.0	ug/L	102.0	7.1
1,1-Dichloroethene		5697	19	<0.25	20	ug/L	95.0	20.5	20.0	ug/L	102.5	7.6
Ethylbenzene		5697	17.2	<0.43	20.0	ug/L	86.0	17.7	20.0	ug/L	88.5	2.9
1,2,4-Trimethylbenzene		5697	9.1	<0.25	20.0	ug/L	45.5	9.6	20.0	ug/L	48.0	5.3
Toluene		5697	18	<0.25	20	ug/L	90.0	19.1	20.0	ug/L	95.5	5.9
1,3,5-Trimethylbenzene		5697	9.1	0.17	20.0	ug/L	44.7	9.2	20.0	ug/L	45.1	1.1
Trichloroethylene		5697	17.9	<0.43	20.0	ug/L	89.5	19.4	20.0	ug/L	97.0	8.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12715

Analyte	Prep	Run	Matrix	Sample	Spike		Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike		Result	Amount			Units	Result		
BNA Soil 8270 MDL												
Acenaphthene	109	177	3.3	<0.68	35.9	mg/kg dw	9.3	3.2	35.2	mg/kg dw	9.2	3.3
1,4-Dichlorobenzene	109	177	3.2	0.90	35.9	mg/kg dw	9.0	2.8	35.2	mg/kg dw	5.4	14.3
2,4-Dinitrotoluene	109	177	2.7	0.52	35.9	mg/kg dw	7.5	2.8	35.2	mg/kg dw	6.5	3.9
N-Nitrosodi-n-propylamine	109	177	2.4	0.90	35.9	mg/kg dw	6.6	2.8	35.2	mg/kg dw	5.4	16.7
Pyrene	109	177	4.1	1.2	35.9	mg/kg dw	8.1	3.9	35.2	mg/kg dw	7.7	5.4
1,2,4-Trichlorobenzene	109	177	3.5	<0.77	35.9	mg/kg dw	9.6	3.1	35.2	mg/kg dw	8.9	9.8
4-Chloro-3-methylphenol	109	177	2.8	<0.77	35.9	mg/kg dw	7.8	2.8	35.2	mg/kg dw	8.0	0.0
2-chlorophenol	109	177	2.9	0.92	35.9	mg/kg dw	8.1	3.0	35.2	mg/kg dw	6.0	3.6
4-Nitrophenol	109	177	1.8	<0.70	35.9	mg/kg dw	5.1	2.6	35.2	mg/kg dw	7.4	34.1
Pentachlorophenol	109	177	1.3	0.81	35.9	mg/kg dw	3.6	1.3	35.2	mg/kg dw	1.4	0.0
Phenol	109	177	2.6	0.81	35.9	mg/kg dw	7.2	2.6	35.2	mg/kg dw	5.1	0.0
PCB's Non-Aqueous												
PCB-1221	833	1891	<0.19	<0.26	0.17	mg/kg dw	82.4	<0.19	0.16	mg/kg dw	75.0	15.4
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3185	5433	NA	75.3	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3185	5433	51.9	<10	66.4	mg/kg	78.2	54.1	66.0	mg/kg	82.0	4.2
Motor Oil	3185	5433	NA	385	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (WATER)												

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12715

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
Benzene		11024	87.0	<2.0	100.	ug/L	87.0	86.9	100.	ug/L	86.9	0.1
Toluene		11024	89.4	<2.0	100.	ug/L	89.4	88.3	100.	ug/L	88.3	1.2
Ethylbenzene		11024	90.5	<2.0	100.	ug/L	90.5	89.8	100.	ug/L	89.8	0.8
Xylenes, Total		11024	183	<3.0	200.	ug/L	91.5	181	200	ug/L	90.5	1.1

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job No: 04.12715

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Arsenic, (GFAA) mdl	912	632	0.0400	mg/L	0.04012		100.3		80 - 120		20
Mercury, mdl		2064	0.154	mg/kg	0.132		85.7		80 - 115		20
Barium, (ICP) mdl	1506	2802	1.0	mg/L	0.9144		91.4		90 - 110		20
Barium, (ICP) mdl	1506	2802	1.00	mg/L	0.9144		91.4		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.0	mg/L	0.9383		93.8		90 - 110		20
Cadmium, (ICP) mdl	1506	2808	1.00	mg/L	0.9383		93.8		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.0	mg/L	0.9731		97.3		90 - 110		20
Chromium, (ICP) mdl	1506	2807	1.00	mg/L	0.9731		97.3		90 - 110		20
Lead, (ICP) mdl	1506	2824	2.00	mg/L	1.89		94.5		85 - 110		20
Selenium, (ICP) mdl	1506	2801	4.00	mg/L	3.85		96.3		90 - 110		20
Silver, (ICP) mdl	1506	636	1.00	mg/L	0.8377		83.8		80 - 120		20
VOLATILE COMPOUNDS											
Benzene		5697	20.0	ug/L	21.8		109.0		81 - 124		27
Chlorobenzene		5697	20.0	ug/L	21.2		106.0		77 - 125		28
1,1-Dichloroethene		5697	20.0	ug/L	22.9		114.5		53 - 143		28
Ethylbenzene		5697	20.0	ug/L	21.4		107.0		65 - 140		24
MTBE		5697	20.0	ug/L	22.7		113.5		70 - 133		26
1,2,4-Trimethylbenzene		5697	20.0	ug/L	20.7		103.5		59 - 145		23
Toluene		5697	20.0	ug/L	21.8		109.0		73 - 127		21
1,3,5-Trimethylbenzene		5697	20.0	ug/L	21.2		106.0		63 - 141		24
Trichloroethylene		5697	20.0	ug/L	21.5		107.5		81 - 121		16
Xylenes, Total		5697	60.0	ug/L	64.4		107.3		75 - 130		20
Dibromofluoromethane (surr)		5697	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5697	100	%	101.0		101.0		76 - 120		50
4-Bromofluorobenzene (surr)		5697	100	%	98.0		98.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1045	28.79	ug/kg	31.1		108.0		68 - 158		20
Bromoform		1045	28.79	ug/kg	27.0		93.8		61 - 151		20
Chlorobenzene		1045	28.79	ug/kg	28.7		99.7		65 - 155		20
1,1-Dichloroethane		1045	28.79	ug/kg	32.4		112.5		64 - 154		20
1,1-Dichloroethene		1045	28.79	ug/kg	32.2		111.8		55 - 148		20
Ethylbenzene		1045	28.79	ug/kg	29.2		101.4		69 - 159		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job No: 04.12715

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
MTBE		1045	28.79	ug/kg	34.4		119.5		71 - 161		20
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0		100.7		63 - 153		20
Toluene		1045	28.79	ug/kg	29.5		102.5		68 - 158		20
Trichloroethylene		1045	28.79	ug/kg	27.9		96.9		61 - 151		20
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4		95.2		68 - 158		20
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6		99.3		66 - 156		20
Vinyl Chloride		1045	28.79	ug/kg	31.1		108.0		47 - 137		20
Xylenes, Total		1045	86.38	ug/kg	87.2		100.9		69 - 159		20
4-Bromofluorobenzene (surr)		1045	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1045	100	%	99		99.0		56 - 146		
Toluene-d8 (surr)		1045	100	%	100		100.0		52 - 142		
BNA Soil 8270 MDL											
Acenaphthene	109	174	3.33	mg/kg	2.86		85.9		69 - 108		35
1,4-Dichlorobenzene	109	174	3.33	mg/kg	1.94		58.3		49 - 96		35
2,4-Dinitrotoluene	109	174	3.33	mg/kg	3.31		99.4		68 - 129		35
N-Nitrosodi-n-propylamine	109	174	3.33	mg/kg	2.23		67.0		53 - 105		35
ene	109	174	3.33	mg/kg	3.41		102.4		68 - 117		35
1,4-Trichlorobenzene	109	174	3.33	mg/kg	2.01		60.4		51 - 98		35
Nitrobenzene-d5 (surr)	109	174	100	%	62.0		62.0		56 - 113		
2-Fluorobiphenyl (surr)	109	174	100	%	76.0		76.0		67 - 107		
Terphenyl-d14 (surr)	109	174	100	%	84.0		84.0		66 - 115		
4-Chloro-3-methylphenol	109	174	3.33	mg/kg	2.89		86.8		67 - 115		35
2-chlorophenol	109	174	3.33	mg/kg	2.01		60.4		51 - 94		35
4-Nitrophenol	109	174	3.33	mg/kg	3.16		94.9		63 - 140		35
Pentachlorophenol	109	174	3.33	mg/kg	2.01		60.4		49 - 139		35
Phenol	109	174	3.33	mg/kg	2.02		60.7		50 - 98		35
Phenol-d6 (surr)	109	174	100	%	61.0		61.0		55 - 106		
2-Fluorophenol (surr)	109	174	100	%	55.0		55.0		52 - 96		
Tribromophenol (surr)	109	174	100	%	93.0		93.0		66 - 149		
PCB's Non-Aqueous											
PCB-1221	833	1894	0.17	mg/kg	0.14		82.4		70 - 130		20
Decachlorobiphenyl (Surr.)	833	1894	100	%	114		114.0		63 - 131		35

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job No: 04.12715

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	Max. Limit
	Batch Number	Batch Number									
Tetrachlorometaxylene (Sur	833	1894	100	%	90		90.0		35 - 125		
EXTRACTABLE HYDROCARBONS-W											
Gasoline	2695	4702	2,000	ug/L	1,640	1,450	82.0	72.5	40 - 96	12.3	
N-Octacosane (Surr.)	2695	4702	100	%	123	129	123.0	129.0	41 - 151	4.8	20
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3185	5436	66.7	mg/kg	59.8		89.7		42 - 132		20
N-Octacosane (Surr.)	3185	5436	100	%	93		93.0		44 - 134		20
VOLATILES - BTEX (WATER)											
Benzene		11024	100	ug/L	86.6		86.6		47 - 114		20
Toluene		11024	100.	ug/L	89.8		89.8		69 - 113		20
Ethylbenzene		11024	100.	ug/L	91.0		91.0		74 - 121		20
Xylenes, Total		11024	200	ug/L	183		91.5		72 - 114		20
4-Bromofluorobenzene (surr		11024	100.0	%	86.2		86.2		78 - 124		20

TestAmerica Job Number: 04.12715

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Test America

ANALYTICAL TESTING CORPORATION

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring SEE SPECIAL INSTRUCTIONS

Client Name: HOWARD R. GREEN Client #: _____

Address: 8710 EARHART LANE SW

City/State/Zip Code: CEDAR RAPIDS, IA 52404

Project Manager: CINDY QUAST

Telephone Number: (319) 841-4424 Fax: (319) 841-4012

Sampler Name: (Print Name) ION RYK

Sampler Signature: [Signature]

Email Address: jkryk.jryk@hrgreen.com

Project Name: CHAMBERLAIN

Project #: 722930J23

Site/Location ID: WATERLOO State: IA

Report To: CINDY QUAST

Invoice To: ARE

Quote #: _____ PO#: _____

TAT Standard Rush (surcharges may apply)	Date Needed: _____	Date Sampled	Time Sampled	G = Grab, C = Composite Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers										Analyze For:	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____		
						HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	24 hr	48 hr	72 hr			96 hr	Matrix
SB-10		9/13/04	07:00	G	DW														
SB-45 2'			11:05	G	S														
SB-45 6'			11:45	G	S														
MW-6		9/13/04	16:30	G	GW		✓												
SB-10 2'		9/14/04	11:15	G	S					✓	✓	✓							
SB-10 1A'		9/14/04	12:10	G	S					✓	✓	✓							
SB-15 2'		9/17/04	15:15	G	S					✓	✓	✓							
SB-15 4'			5:55	G	S					✓	✓	✓							
SB-105 2'			15:30	G	S					✓	✓	✓							

Special Instructions: NO TAX ACCOUNT # 15404
NEED RESULTS TO COMPARE TO IOWA LRP
STATEWIDE STANDARDS

Relinquished By: <u>[Signature]</u>	Date: <u>9/14/04</u>	Time: <u>10:40</u>	Received By: <u>Angie Miller</u>	Date: <u>9-14-04</u>	Time: <u>10:40</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

LABORATORY COMMENTS:

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-14-04 Receiver's Initials Am Time (Delivered): 19:40

Temperature Record

Cooler ID# (If Applicable)

2 °C / On Ice

Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

<input type="checkbox"/> Sample(s) not received in a cooler.
<input type="checkbox"/> Sample(s) received within 6 hrs of sampling.
<input type="checkbox"/> Temperature not taken:

Log-In by:

JP MF EM

OT _____



ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job: 04.12941

Project Number: 722930 J23
Project: Chamberlain

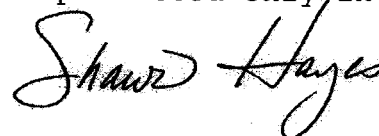
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
824740	TB-11	09/15/2004	09/16/2004
824741	MW-5	09/15/2004	09/16/2004
824742	SB-60 2'	09/15/2004	09/16/2004
824743	SB-60 4'	09/15/2004	09/16/2004
824744	SB-41 2'	09/15/2004	09/16/2004
824745	SB-86 2'	09/15/2004	09/16/2004
824746	SB-70 2'	09/15/2004	09/16/2004
824747	SB-70 6'	09/15/2004	09/16/2004
824748	SB-32 2'	09/15/2004	09/16/2004
824749	SB-65 2'	09/16/2004	09/16/2004
824750	SB-65 14'	09/16/2004	09/16/2004
824751	SB-63 2'	09/16/2004	09/16/2004
824752	SB-62 2'	09/16/2004	09/16/2004
824753	MW-2	09/16/2004	09/16/2004
824754	SB-56 2'	09/16/2004	09/16/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824740	SAMPLE DESCRIPTION TB-11					DATE-TIME TAKEN 09/15/2004 07:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/22/2004	dmd		5729	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/22/2004	dmd		5729	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/22/2004	dmd		5729	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/22/2004	dmd		5729	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Chloroethane	<0.40		ug/L	0.40	1.2	09/22/2004	dmd		5729	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/22/2004	dmd		5729	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/22/2004	dmd		5729	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/22/2004	dmd		5729	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Chloroethane	0.27		ug/L	0.12	0.36	09/22/2004	dmd		5729	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/22/2004	dmd		5729	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/22/2004	dmd		5729	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/22/2004	dmd		5729	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/22/2004	dmd		5729	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/22/2004	dmd		5729	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824740	TB-11					09/15/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/22/2004	dmd		5729	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/22/2004	dmd		5729	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/22/2004	dmd		5729	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/22/2004	dmd		5729	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/22/2004	dmd		5729	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/22/2004	dmd		5729	SW 8260B
Hexachlorobutadiene	<0.22		ug/L	0.22	0.66	09/22/2004	dmd		5729	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/22/2004	dmd		5729	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/22/2004	dmd		5729	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/22/2004	dmd		5729	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Methylene chloride	0.74		ug/L	0.63	1.9	09/22/2004	dmd		5729	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/22/2004	dmd		5729	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/22/2004	dmd		5729	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/22/2004	dmd		5729	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B
1,2,3-Trichlorobenzene	0.51	B	ug/L	0.40	1.2	09/22/2004	dmd		5729	SW 8260B
1,2,4-Trichlorobenzene	0.29	B	ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 824740	SAMPLE DESCRIPTION TB-11					DATE-TIME TAKEN 09/15/2004 07:00					
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/22/2004	dmd		5729	SW 8260B	
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/22/2004	dmd		5729	SW 8260B	
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B	
Toluene	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B	
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/22/2004	dmd		5729	SW 8260B	
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/22/2004	dmd		5729	SW 8260B	
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/22/2004	dmd		5729	SW 8260B	
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/22/2004	dmd		5729	SW 8260B	
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/22/2004	dmd		5729	SW 8260B	
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/22/2004	dmd		5729	SW 8260B	
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/22/2004	dmd		5729	SW 8260B	
bromofluoromethane (surr)	104		%			09/22/2004	dmd		5729	SW 8260B	
Tuene-d8 (surr)	90		%			09/22/2004	dmd		5729	SW 8260B	
4-Bromofluorobenzene (surr)	88		%			09/22/2004	dmd		5729	SW 8260B	
VOA Preservation pH	<2		units	NA		09/24/2004	sjg		1054	SW 9041A	

SAMPLE NO. 824741	SAMPLE DESCRIPTION MW-5					DATE-TIME TAKEN 09/15/2004 08:45					
Extraction Prep	COMPLETE					09/20/2004	acm		2699	IOWA-0A2	
EXTRACTABLE HYDROCARBONS-WAT											
Total Extractable Hydrocarbo	<380		ug/L		380	10/01/2004	ljm		2699 4714	IA-0A2/S-8015	

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824741	MW-5					09/15/2004 08:45				
Diesel	<380		ug/L	85	380	10/01/2004	ljm	2699	4714	IA-OA2/S-8015
Gasoline	<380		ug/L	129	380	10/01/2004	ljm	2699	4714	IA-OA2/S-8015
Motor Oil	<380		ug/L	84	380	10/01/2004	ljm	2699	4714	IA-OA2/S-8015
N-Octacosane (Surr.)	118		%	100	100	10/01/2004	ljm	2699	4714	IA-OA2/S-8015
VOLATILES - BTEX (WATER)										
Benzene	<2.0		ug/L	0.06	2.0	09/23/2004	mmk		11067	IA-OA1
Toluene	<2.0		ug/L	0.079	2.0	09/23/2004	mmk		11067	IA-OA1
Ethylbenzene	<2.0		ug/L	0.233	2.0	09/23/2004	mmk		11067	IA-OA1
Xylenes, Total	<3.0		ug/L	0.311	3.0	09/23/2004	mmk		11067	IA-OA1
4-Bromofluorobenzene (surr.)	92.9		%	1	1	09/23/2004	mmk		11067	IA-OA1
VOA Preservation pH	<2		units	NA		09/27/2004	mmk		1056	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824742	SB-60 2'					09/15/2004 09:45				
Solids, Total	92.18		%	0.01	0.01	09/17/2004	sas		2762	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/18/2004	acm	110		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/18/2004	acm	834		SW 3540
BNA Soil 8270 MDL R										
Acenaphthene	<0.35	MSO	mg/kg dw	0.35	1.02	09/20/2004	ake	110	178	SW 8270C
Acenaphthylene	<0.33		mg/kg dw	0.33	0.950	09/20/2004	ake	110	178	SW 8270C
Anthracene	<0.22		mg/kg dw	0.22	0.628	09/20/2004	ake	110	178	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824742	SB-60 2'					09/15/2004 09:45				
Benzidine	<0.53		mg/kg dw	0.53	1.58	09/20/2004	ake	110	178	SW 8270C
Benzo(a)anthracene	0.2		mg/kg dw	0.20	0.564	09/20/2004	ake	110	178	SW 8270C
Benzo(b)fluoranthene	0.2		mg/kg dw	0.20	0.596	09/20/2004	ake	110	178	SW 8270C
Benzo(k)fluoranthene	<0.26		mg/kg dw	0.26	0.790	09/20/2004	ake	110	178	SW 8270C
Benzo(a)pyrene	<0.26		mg/kg dw	0.26	0.790	09/20/2004	ake	110	178	SW 8270C
Benzo(ghi)perylene	<0.22		mg/kg dw	0.22	0.628	09/20/2004	ake	110	178	SW 8270C
Benzyl alcohol	<0.43		mg/kg dw	0.43	1.31	09/20/2004	ake	110	178	SW 8270C
Benzyl butyl phthalate	<0.24		mg/kg dw	0.24	0.693	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethyl)ether	<0.42		mg/kg dw	0.42	1.26	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethoxy)methane	<0.40		mg/kg dw	0.40	1.19	09/20/2004	ake	110	178	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.17		mg/kg dw	0.17	0.52	09/20/2004	ake	110	178	SW 8270C
Bis(2chloroisopropyl)ether	<0.47		mg/kg dw	0.47	1.39	09/20/2004	ake	110	178	SW 8270C
Bromophenyl phenyl ether	<0.26		mg/kg dw	0.26	0.773	09/20/2004	ake	110	178	SW 8270C
Carbazole	<0.22		mg/kg dw	0.22	0.628	09/20/2004	ake	110	178	SW 8270C
4-Chloroaniline	<0.559		mg/kg dw	0.559	1.67	09/20/2004	ake	110	178	SW 8270C
2-Chloronaphthalene	<0.38		mg/kg dw	0.38	1.1	09/20/2004	ake	110	178	SW 8270C
4-Chlorophenylphenyl ether	<0.30		mg/kg dw	0.30	0.886	09/20/2004	ake	110	178	SW 8270C
Chrysene	0.2		mg/kg dw	0.16	0.49	09/20/2004	ake	110	178	SW 8270C
Dibenzo(a,h)anthracene	<0.41		mg/kg dw	0.41	1.25	09/20/2004	ake	110	178	SW 8270C
Dibenzofuran	<0.26		mg/kg dw	0.26	0.757	09/20/2004	ake	110	178	SW 8270C
Di-n-butylphthalate	<0.24		mg/kg dw	0.24	0.693	09/20/2004	ake	110	178	SW 8270C
1,2-Dichlorobenzene	<0.553		mg/kg dw	0.553	1.65	09/20/2004	ake	110	178	SW 8270C
1,3-Dichlorobenzene	<0.50		mg/kg dw	0.50	1.49	09/20/2004	ake	110	178	SW 8270C
1,4-Dichlorobenzene	<0.46	M50	mg/kg dw	0.46	1.38	09/20/2004	ake	110	178	SW 8270C
3,3-Dichlorobenzidine	<0.575		mg/kg dw	0.575	1.71	09/20/2004	ake	110	178	SW 8270C
Diethyl phthalate	<0.26		mg/kg dw	0.26	0.757	09/20/2004	ake	110	178	SW 8270C

M50 - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824742	SB-60 2'					09/15/2004 09:45				
Dimethyl phthalate	<0.23		mg/kg dw	0.23	0.677	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrotoluene	<0.26	MSO	mg/kg dw	0.26	0.757	09/20/2004	ake	110	178	SW 8270C
2,6-Dinitrotoluene	<0.36		mg/kg dw	0.36	1.06	09/20/2004	ake	110	178	SW 8270C
Di-n-octylphthalate	<0.33		mg/kg dw	0.33	0.97	09/20/2004	ake	110	178	SW 8270C
Fluoranthene	0.4		mg/kg dw	0.20	0.580	09/20/2004	ake	110	178	SW 8270C
Fluorene	<0.28		mg/kg dw	0.28	0.854	09/20/2004	ake	110	178	SW 8270C
Hexachlorobenzene	<0.15		mg/kg dw	0.15	0.48	09/20/2004	ake	110	178	SW 8270C
Hexachlorocyclopentadiene	<0.31		mg/kg dw	0.31	0.934	09/20/2004	ake	110	178	SW 8270C
Hexachloro-1,3-butadiene	<0.37		mg/kg dw	0.37	1.07	09/20/2004	ake	110	178	SW 8270C
Hexachloroethane	<0.44		mg/kg dw	0.44	1.32	09/20/2004	ake	110	178	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.17		mg/kg dw	0.17	0.50	09/20/2004	ake	110	178	SW 8270C
Isophorone	<0.33		mg/kg dw	0.33	0.950	09/20/2004	ake	110	178	SW 8270C
2-Methylnaphthalene	<0.35		mg/kg dw	0.35	1.03	09/20/2004	ake	110	178	SW 8270C
Naphthalene	<0.39		mg/kg dw	0.39	1.18	09/20/2004	ake	110	178	SW 8270C
2-Nitroaniline	<0.38		mg/kg dw	0.38	1.1	09/20/2004	ake	110	178	SW 8270C
3-Nitroaniline	<0.33		mg/kg dw	0.33	0.950	09/20/2004	ake	110	178	SW 8270C
4-Nitroaniline	<0.37		mg/kg dw	0.37	1.12	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene	<0.41		mg/kg dw	0.41	1.23	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodimethylamine	<0.596		mg/kg dw	0.596	1.78	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodiphenylamine	<0.18		mg/kg dw	0.18	0.548	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodi-n-propylamine	<0.46	MSO	mg/kg dw	0.46	1.33	09/20/2004	ake	110	178	SW 8270C
Phenanthrene	0.4		mg/kg dw	0.21	0.612	09/20/2004	ake	110	178	SW 8270C
Pyrene	0.4	MSO	mg/kg dw	0.27	0.80	09/20/2004	ake	110	178	SW 8270C
Pyridine	<0.601		mg/kg dw	0.601	1.80	09/20/2004	ake	110	178	SW 8270C
1,2,4-Trichlorobenzene	<0.39	MSO	mg/kg dw	0.39	1.18	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene-d5 (surr)	74		%			09/20/2004	ake	110	178	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824742	SB-60 2'					09/15/2004 09:45				
2-Fluorobiphenyl (surr)	75		%			09/20/2004	ake	110	178	SW 8270C
Terphenyl-d14 (surr)	77		%			09/20/2004	ake	110	178	SW 8270C
Benzoic Acid	<1.7		mg/kg dw	1.7	5.4	09/20/2004	ake	110	178	SW 8270C
4-Chloro-3-methylphenol	<0.39	MSO	mg/kg dw	0.39	1.16	09/20/2004	ake	110	178	SW 8270C
2-chlorophenol	<0.47	MSO	mg/kg dw	0.47	1.39	09/20/2004	ake	110	178	SW 8270C
2-Methylphenol	<0.42		mg/kg dw	0.42	1.26	09/20/2004	ake	110	178	SW 8270C
4-Methylphenol	<0.43		mg/kg dw	0.43	1.3	09/20/2004	ake	110	178	SW 8270C
Cresols, Total	<0.848		mg/kg dw	0.848	2.55	09/20/2004	ake	110	178	SW 8270C
2,4-Dichlorophenol	<0.40		mg/kg dw	0.40	1.19	09/20/2004	ake	110	178	SW 8270C
2,4-Dimethylphenol	<0.35		mg/kg dw	0.35	1.02	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrophenol	<0.15		mg/kg dw	0.15	0.46	09/20/2004	ake	110	178	SW 8270C
4-Methyl-4,6-dinitrophenol	<0.564		mg/kg dw	0.564	1.69	09/20/2004	ake	110	178	SW 8270C
4-Nitrophenol	<0.601		mg/kg dw	0.601	1.80	09/20/2004	ake	110	178	SW 8270C
2-Nitrophenol	<0.36	MSO	mg/kg dw	0.36	1.06	09/20/2004	ake	110	178	SW 8270C
Pentachlorophenol	<0.41	MSO	mg/kg dw	0.41	1.25	09/20/2004	ake	110	178	SW 8270C
Phenol	<0.41	MSO	mg/kg dw	0.41	1.25	09/20/2004	ake	110	178	SW 8270C
2,4,5-Trichlorophenol	<0.37		mg/kg dw	0.37	1.12	09/20/2004	ake	110	178	SW 8270C
2,4,6-Trichlorophenol	<0.29		mg/kg dw	0.29	0.870	09/20/2004	ake	110	178	SW 8270C
Phenol-d6 (surr)	47		%			09/20/2004	ake	110	178	SW 8270C
2-Fluorophenol (surr)	42		%			09/20/2004	ake	110	178	SW 8270C
Tribromophenol (surr)	68		%			09/20/2004	ake	110	178	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.27		mg/kg dw	0.16	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1221	<0.27		mg/kg dw	0.21	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1232	<0.27		mg/kg dw	0.031	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1242	<0.27		mg/kg dw	0.053	0.27	10/04/2004	kak	834	1904	SW 8082

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
824742	SB-60 2'	09/15/2004 09:45

PCB-1248	<0.27		mg/kg dw	0.021	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1254	<0.27		mg/kg dw	0.027	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1260	<0.27		mg/kg dw	0.15	0.27	10/04/2004	kak	834	1904	SW 8082
PCB-1268	<0.27		mg/kg dw	0.068	0.27	10/04/2004	kak	834	1904	SW 8082
Decachlorobiphenyl (Surr.)	77		%	1	1	10/04/2004	kak	834	1904	SW 8082
Tetrachlorometaxylene (Surr.)	79		%	1	1	10/04/2004	kak	834	1904	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
824743	SB-60 4'	09/15/2004 10:50

Solids, Total	95.30		%	0.01	0.01	09/17/2004	sas		2762	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/18/2004	acm	110		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.064		mg/kg dw	0.064	0.192	09/20/2004	ake	110	178	SW 8270C
Acenaphthylene	<0.060		mg/kg dw	0.060	0.180	09/20/2004	ake	110	178	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.119	09/20/2004	ake	110	178	SW 8270C
Benzidine	<0.10		mg/kg dw	0.10	0.299	09/20/2004	ake	110	178	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.107	09/20/2004	ake	110	178	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/20/2004	ake	110	178	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.150	09/20/2004	ake	110	178	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.150	09/20/2004	ake	110	178	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.119	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824743	SB-60 4'					09/15/2004 10:50				
Benzyl alcohol	<0.083		mg/kg dw	0.083	0.248	09/20/2004	ake	110	178	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethyl)ether	<0.080		mg/kg dw	0.080	0.238	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethoxy)methane	<0.076		mg/kg dw	0.076	0.226	09/20/2004	ake	110	178	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.098	09/20/2004	ake	110	178	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.262	09/20/2004	ake	110	178	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.147	09/20/2004	ake	110	178	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.119	09/20/2004	ake	110	178	SW 8270C
4-Chloroaniline	<0.106		mg/kg dw	0.106	0.318	09/20/2004	ake	110	178	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.21	09/20/2004	ake	110	178	SW 8270C
4-Chlorophenylphenyl ether	<0.056		mg/kg dw	0.056	0.168	09/20/2004	ake	110	178	SW 8270C
Chrysene	<0.030		mg/kg dw	0.030	0.091	09/20/2004	ake	110	178	SW 8270C
Benzo(a,h)anthracene	<0.079		mg/kg dw	0.079	0.235	09/20/2004	ake	110	178	SW 8270C
Benzenofuran	<0.048		mg/kg dw	0.048	0.144	09/20/2004	ake	110	178	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.131	09/20/2004	ake	110	178	SW 8270C
1,2-Dichlorobenzene	<0.105		mg/kg dw	0.105	0.315	09/20/2004	ake	110	178	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.281	09/20/2004	ake	110	178	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.259	09/20/2004	ake	110	178	SW 8270C
3,3-Dichlorobenzidine	<0.109		mg/kg dw	0.109	0.326	09/20/2004	ake	110	178	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.144	09/20/2004	ake	110	178	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.128	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.144	09/20/2004	ake	110	178	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.201	09/20/2004	ake	110	178	SW 8270C
Di-n-octylphthalate	<0.061		mg/kg dw	0.061	0.18	09/20/2004	ake	110	178	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.110	09/20/2004	ake	110	178	SW 8270C
Fluorene	<0.054		mg/kg dw	0.054	0.162	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824743	SB-60 4'					09/15/2004 10:50				
Hexachlorobenzene	<0.029		mg/kg dw	0.029	0.088	09/20/2004	ake	110	178	SW 8270C
Hexachlorocyclopentadiene	<0.059		mg/kg dw	0.059	0.177	09/20/2004	ake	110	178	SW 8270C
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.205	09/20/2004	ake	110	178	SW 8270C
Hexachloroethane	<0.084		mg/kg dw	0.084	0.251	09/20/2004	ake	110	178	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.031		mg/kg dw	0.031	0.094	09/20/2004	ake	110	178	SW 8270C
Isophorone	<0.060		mg/kg dw	0.060	0.180	09/20/2004	ake	110	178	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.195	09/20/2004	ake	110	178	SW 8270C
Naphthalene	<0.075		mg/kg dw	0.075	0.222	09/20/2004	ake	110	178	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.21	09/20/2004	ake	110	178	SW 8270C
3-Nitroaniline	<0.060		mg/kg dw	0.060	0.180	09/20/2004	ake	110	178	SW 8270C
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.211	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene	<0.078		mg/kg dw	0.078	0.232	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodimethylamine	<0.113		mg/kg dw	0.113	0.339	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.104	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodi-n-propylamine	<0.085		mg/kg dw	0.085	0.254	09/20/2004	ake	110	178	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.116	09/20/2004	ake	110	178	SW 8270C
Pyrene	<0.050		mg/kg dw	0.050	0.16	09/20/2004	ake	110	178	SW 8270C
Pyridine	<0.114		mg/kg dw	0.114	0.342	09/20/2004	ake	110	178	SW 8270C
1,2,4-Trichlorobenzene	<0.075		mg/kg dw	0.075	0.222	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene-d5 (surr)	76		%			09/20/2004	ake	110	178	SW 8270C
2-Fluorobiphenyl (surr)	75		%			09/20/2004	ake	110	178	SW 8270C
Terphenyl-d14 (surr)	104		%			09/20/2004	ake	110	178	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/20/2004	ake	110	178	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.220	09/20/2004	ake	110	178	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.262	09/20/2004	ake	110	178	SW 8270C
2-Methylphenol	<0.080		mg/kg dw	0.080	0.238	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824743	SAMPLE DESCRIPTION SB-60 4'					DATE-TIME TAKEN 09/15/2004 10:50				
4-Methylphenol	<0.082		mg/kg dw	0.082	0.24	09/20/2004	ake	110	178	SW 8270C
Cresols, Total	<0.161		mg/kg dw	0.161	0.483	09/20/2004	ake	110	178	SW 8270C
2,4-Dichlorophenol	<0.076		mg/kg dw	0.076	0.226	09/20/2004	ake	110	178	SW 8270C
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.192	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.085	09/20/2004	ake	110	178	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.107		mg/kg dw	0.107	0.321	09/20/2004	ake	110	178	SW 8270C
2-Nitrophenol	<0.114		mg/kg dw	0.114	0.342	09/20/2004	ake	110	178	SW 8270C
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.201	09/20/2004	ake	110	178	SW 8270C
Pentachlorophenol	<0.079		mg/kg dw	0.079	0.235	09/20/2004	ake	110	178	SW 8270C
Phenol	<0.079		mg/kg dw	0.079	0.235	09/20/2004	ake	110	178	SW 8270C
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.211	09/20/2004	ake	110	178	SW 8270C
2,4,6-Trichlorophenol	<0.055		mg/kg dw	0.055	0.165	09/20/2004	ake	110	178	SW 8270C
2,4,6-Trichlorophenol-d6 (surr)	78		%			09/20/2004	ake	110	178	SW 8270C
4-Fluorophenol (surr)	72		%			09/20/2004	ake	110	178	SW 8270C
Tribromophenol (surr)	105		%			09/20/2004	ake	110	178	SW 8270C

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824744	SB-41 2'					09/15/2004 14:30				
Solids, Total	95.22		%	0.01	0.01	09/17/2004	sas		2763	SM 2540 G
Arsenic, (GFAA) mdl	1.7	MSO	mg/kg dw	0.22	1.1	09/27/2004	heh	913	633	SW 7060A
Mercury, mdl	0.026	B	mg/kg dw	0.0013	0.0045	09/23/2004	heh		2064	SW 7471A

B - This analyte was detected in the method blank.
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824744	SB-41 2'					09/15/2004 14:30				
GFAA Metals Digestion	1.072		g			09/22/2004	tdo	913		SW 3050 B
ICP Metals Prep (Solid)	1.029		g			09/21/2004	tdo	1507		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	57.0	MSO	mg/kg dw	0.205	0.53	09/21/2004	heh	1507	2805	SW 6010B
Cadmium, (ICP) mdl	2.36		mg/kg dw	0.25	0.88	09/21/2004	heh	1507	2811	SW 6010B
Chromium, (ICP) mdl	9.00		mg/kg dw	0.41	1.1	09/21/2004	heh	1507	2810	SW 6010B
Lead, (ICP) mdl	16.8		mg/kg dw	5.3	5.3	09/21/2004	heh	1507	2827	SW 6010B
Selenium, (ICP) mdl	<7.9		mg/kg dw	7.9	7.9	09/21/2004	heh	1507	2804	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.1	09/21/2004	heh	1507	639	SW 6010B
Prep, PCB's Non-aqueous	COMPLETE					09/18/2004	acm	834		SW 3540
PCB's Non-Aqueous										
PCB-1016	<0.26		mg/kg dw	0.16	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1221	<0.26		mg/kg dw	0.20	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1232	<0.26		mg/kg dw	0.030	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1242	<0.26		mg/kg dw	0.051	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1248	<0.26		mg/kg dw	0.020	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1254	<0.26		mg/kg dw	0.026	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1260	<0.26		mg/kg dw	0.15	0.26	10/04/2004	kak	834	1904	SW 8082
PCB-1268	<0.26		mg/kg dw	0.066	0.26	10/04/2004	kak	834	1904	SW 8082
Decachlorobiphenyl (Surr.)	56		%	1	1	10/04/2004	kak	834	1904	SW 8082
Tetrachlorometaxylene (Surr.)	57		%	1	1	10/04/2004	kak	834	1904	SW 8082

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824745	SB-86 2'					09/15/2004 14:50				
Solids, Total	95.96		%	0.01	0.01	09/17/2004	sas		2763	SM 2540 G
Arsenic, (GFAA) mdl	1.1		mg/kg dw	0.22	1.0	09/27/2004	heh	913	633	SW 7060A
Mercury, mdl	0.0150	B	mg/kg dw	0.0013	0.0045	09/23/2004	heh		2064	SW 7471A
GFAA Metals Digestion	1.025		g			09/22/2004	tdo	913		SW 3050 B
ICP Metals Prep (Solid)	1.036		g			09/21/2004	tdo	1507		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	30.7		mg/kg dw	0.203	0.52	09/21/2004	heh	1507	2805	SW 6010B
Cadmium, (ICP) mdl	0.35		mg/kg dw	0.25	0.88	09/21/2004	heh	1507	2811	SW 6010B
Chromium, (ICP) mdl	4.31		mg/kg dw	0.41	1.0	09/21/2004	heh	1507	2810	SW 6010B
Lead, (ICP) mdl	<5.2		mg/kg dw	5.2	5.2	09/21/2004	heh	1507	2827	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/21/2004	heh	1507	2804	SW 6010B
Silver, (ICP) mdl	<0.59		mg/kg dw	0.59	1.0	09/21/2004	heh	1507	639	SW 6010B

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824746	SB-70 2'					09/15/2004 15:05				
Extraction Prep, soil	COMPLETE					09/20/2004	acm	3188		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	147		mg/kg	10	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Diesel	<45	mdl	mg/kg	6.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Gasoline	<30	mdl	mg/kg	5.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Motor Oil	147		mg/kg	7.1	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015

B - This analyte was detected in the method blank.
 mdl - Results calculated/entered to the method detection limit.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 824746	SAMPLE DESCRIPTION SB-70 2'					DATE-TIME TAKEN 09/15/2004 15:05					
N-Octacosane (Surr.)	168	P	%	1.0	1.0	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
VOLATILES - BTEX (NONAQUEOUS)											
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1	
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1	
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1	
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1	
4-Bromofluorobenzene (surr.)	88.0		%	1	1	09/23/2004	ake		5822	IA-OA1	

SAMPLE NO. 824747	SAMPLE DESCRIPTION SB-70 6'					DATE-TIME TAKEN 09/15/2004 16:30					
Extraction Prep, soil	COMPLETE					09/20/2004	acm	3188		IOWA-0A2	
EXTRACTABLE HYDROCARBONS-SOI											
Total Extractable Hydrocarbo	423		mg/kg	10	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
Diesel	36.2		mg/kg	6.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
Gasoline	<10		mg/kg	5.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
Motor Oil	387		mg/kg	7.1	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
N-Octacosane (Surr.)	248	P	%	1.0	1.0	10/04/2004	ljm	3188	5441	IA-OA2/S-8015	
VOLATILES - BTEX (NONAQUEOUS)											
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1	
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1	
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1	

p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 824747	SAMPLE DESCRIPTION SB-70 6'					DATE-TIME TAKEN 09/15/2004 16:30					
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1	
4-Bromofluorobenzene (surr.)	87.1		%	1	1	09/23/2004	ake		5822	IA-OA1	

SAMPLE NO. 824748	SAMPLE DESCRIPTION SB-32 2'					DATE-TIME TAKEN 09/15/2004 16:50					
Solids, Total	95.93		%	0.01	0.01	09/17/2004	sas		2762	SM 2540 G	
Prep, BNA-Nonaqueous (MDL)	Complete					09/18/2004	acm	110		SW 3550	
Prep, PCB's Non-aqueous	COMPLETE					09/18/2004	acm	834		SW 3540	
Soil 8270 MDL											
naphthene	<0.064		mg/kg dw	0.064	0.191	09/20/2004	ake	110	178	SW 8270C	
acenaphthylene	<0.059		mg/kg dw	0.059	0.179	09/20/2004	ake	110	178	SW 8270C	
Anthracene	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C	
Benzidine	<0.099		mg/kg dw	0.099	0.297	09/20/2004	ake	110	178	SW 8270C	
Benzo(a)anthracene	<0.035		mg/kg dw	0.035	0.106	09/20/2004	ake	110	178	SW 8270C	
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.113	09/20/2004	ake	110	178	SW 8270C	
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.149	09/20/2004	ake	110	178	SW 8270C	
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.149	09/20/2004	ake	110	178	SW 8270C	
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C	
Benzyl alcohol	<0.082		mg/kg dw	0.082	0.246	09/20/2004	ake	110	178	SW 8270C	
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.130	09/20/2004	ake	110	178	SW 8270C	
Bis(2-chloroethyl)ether	<0.079		mg/kg dw	0.079	0.237	09/20/2004	ake	110	178	SW 8270C	

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824748	SB-32 2'					09/15/2004 16:50				
Bis(2-chloroethoxy)methane	<0.075		mg/kg dw	0.075	0.224	09/20/2004	ake	110	178	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.032		mg/kg dw	0.032	0.097	09/20/2004	ake	110	178	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.261	09/20/2004	ake	110	178	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.146	09/20/2004	ake	110	178	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C
4-Chloroaniline	<0.105		mg/kg dw	0.105	0.316	09/20/2004	ake	110	178	SW 8270C
2-Chloronaphthalene	<0.071		mg/kg dw	0.071	0.21	09/20/2004	ake	110	178	SW 8270C
4-Chlorophenylphenyl ether	<0.055		mg/kg dw	0.055	0.167	09/20/2004	ake	110	178	SW 8270C
Chrysene	<0.030		mg/kg dw	0.030	0.091	09/20/2004	ake	110	178	SW 8270C
Dibenzo(a,h)anthracene	<0.078		mg/kg dw	0.078	0.234	09/20/2004	ake	110	178	SW 8270C
Dibenzofuran	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.130	09/20/2004	ake	110	178	SW 8270C
1,2-Dichlorobenzene	<0.104		mg/kg dw	0.104	0.313	09/20/2004	ake	110	178	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.279	09/20/2004	ake	110	178	SW 8270C
1,4-Dichlorobenzene	<0.085		mg/kg dw	0.085	0.257	09/20/2004	ake	110	178	SW 8270C
3,3-Dichlorobenzidine	<0.108		mg/kg dw	0.108	0.324	09/20/2004	ake	110	178	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.127	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C
2,6-Dinitrotoluene	<0.067		mg/kg dw	0.067	0.200	09/20/2004	ake	110	178	SW 8270C
Di-n-octylphthalate	<0.060		mg/kg dw	0.060	0.18	09/20/2004	ake	110	178	SW 8270C
Fluoranthene	<0.036		mg/kg dw	0.036	0.109	09/20/2004	ake	110	178	SW 8270C
Fluorene	<0.053		mg/kg dw	0.053	0.161	09/20/2004	ake	110	178	SW 8270C
Hexachlorobenzene	<0.029		mg/kg dw	0.029	0.088	09/20/2004	ake	110	178	SW 8270C
Hexachlorocyclopentadiene	<0.058		mg/kg dw	0.058	0.176	09/20/2004	ake	110	178	SW 8270C
Hexachloro-1,3-butadiene	<0.068		mg/kg dw	0.068	0.203	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
824748	SB-32 2'								09/15/2004 16:50	
Hexachloroethane	<0.083		mg/kg dw	0.083	0.249	09/20/2004	ake	110	178	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.031		mg/kg dw	0.031	0.094	09/20/2004	ake	110	178	SW 8270C
Isophorone	<0.059		mg/kg dw	0.059	0.179	09/20/2004	ake	110	178	SW 8270C
2-Methylnaphthalene	<0.065		mg/kg dw	0.065	0.194	09/20/2004	ake	110	178	SW 8270C
Naphthalene	<0.074		mg/kg dw	0.074	0.221	09/20/2004	ake	110	178	SW 8270C
2-Nitroaniline	<0.071		mg/kg dw	0.071	0.21	09/20/2004	ake	110	178	SW 8270C
3-Nitroaniline	<0.059		mg/kg dw	0.059	0.179	09/20/2004	ake	110	178	SW 8270C
4-Nitroaniline	<0.070		mg/kg dw	0.070	0.210	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene	<0.077		mg/kg dw	0.077	0.230	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodimethylamine	<0.113		mg/kg dw	0.113	0.337	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodiphenylamine	<0.034		mg/kg dw	0.034	0.103	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodi-n-propylamine	<0.084		mg/kg dw	0.084	0.252	09/20/2004	ake	110	178	SW 8270C
Anthracene	<0.039		mg/kg dw	0.039	0.116	09/20/2004	ake	110	178	SW 8270C
Pyrene	<0.050		mg/kg dw	0.050	0.16	09/20/2004	ake	110	178	SW 8270C
Pyridine	<0.114		mg/kg dw	0.114	0.340	09/20/2004	ake	110	178	SW 8270C
1,2,4-Trichlorobenzene	<0.074		mg/kg dw	0.074	0.221	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene-d5 (surr)	67		%			09/20/2004	ake	110	178	SW 8270C
2-Fluorobiphenyl (surr)	69		%			09/20/2004	ake	110	178	SW 8270C
Terphenyl-d14 (surr)	101		%			09/20/2004	ake	110	178	SW 8270C
Benzoic Acid	<0.33		mg/kg dw	0.33	1.0	09/20/2004	ake	110	178	SW 8270C
4-Chloro-3-methylphenol	<0.073		mg/kg dw	0.073	0.219	09/20/2004	ake	110	178	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.261	09/20/2004	ake	110	178	SW 8270C
2-Methylphenol	<0.079		mg/kg dw	0.079	0.237	09/20/2004	ake	110	178	SW 8270C
4-Methylphenol	<0.081		mg/kg dw	0.081	0.24	09/20/2004	ake	110	178	SW 8270C
Cresols, Total	<0.159		mg/kg dw	0.159	0.480	09/20/2004	ake	110	178	SW 8270C
2,4-Dichlorophenol	<0.075		mg/kg dw	0.075	0.224	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO. 824748	SAMPLE DESCRIPTION SB-32 2'					DATE-TIME TAKEN 09/15/2004 16:50					
2,4-Dimethylphenol	<0.064		mg/kg dw	0.064	0.191	09/20/2004	ake	110	178	SW 8270C	
2,4-Dinitrophenol	<0.028		mg/kg dw	0.028	0.084	09/20/2004	ake	110	178	SW 8270C	
2-Methyl-4,6-dinitrophenol	<0.106		mg/kg dw	0.106	0.319	09/20/2004	ake	110	178	SW 8270C	
2-Nitrophenol	<0.114		mg/kg dw	0.114	0.340	09/20/2004	ake	110	178	SW 8270C	
4-Nitrophenol	<0.067		mg/kg dw	0.067	0.200	09/20/2004	ake	110	178	SW 8270C	
Pentachlorophenol	<0.078		mg/kg dw	0.078	0.234	09/20/2004	ake	110	178	SW 8270C	
Phenol	<0.078		mg/kg dw	0.078	0.234	09/20/2004	ake	110	178	SW 8270C	
2,4,5-Trichlorophenol	<0.070		mg/kg dw	0.070	0.210	09/20/2004	ake	110	178	SW 8270C	
2,4,6-Trichlorophenol	<0.054		mg/kg dw	0.054	0.164	09/20/2004	ake	110	178	SW 8270C	
Phenol-d6 (surr)	68		%			09/20/2004	ake	110	178	SW 8270C	
2-Fluorophenol (surr)	64		%			09/20/2004	ake	110	178	SW 8270C	
Tribromophenol (surr)	100		%			09/20/2004	ake	110	178	SW 8270C	
PCB's Non-Aqueous						09/20/2004	ake	110	178	SW 8270C	
PCB-1016	<0.26		mg/kg dw	0.16	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1221	<0.26		mg/kg dw	0.20	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1232	<0.26		mg/kg dw	0.030	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1242	<0.26		mg/kg dw	0.051	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1248	<0.26		mg/kg dw	0.020	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1254	<0.26		mg/kg dw	0.026	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1260	<0.26		mg/kg dw	0.15	0.26	10/01/2004	kak	834	1901	SW 8082	
PCB-1268	<0.26		mg/kg dw	0.066	0.26	10/01/2004	kak	834	1901	SW 8082	
Decachlorobiphenyl (Surr.)	63		%	1	1	10/01/2004	kak	834	1901	SW 8082	
Tetrachlorometaxylene (Surr.)	68		%	1	1	10/01/2004	kak	834	1901	SW 8082	

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824749	SAMPLE DESCRIPTION SB-65 2'					DATE-TIME TAKEN 09/16/2004 11:05				
Extraction Prep, soil	COMPLETE					09/20/2004	acm	3188		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	44.6		mg/kg	10	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Diesel	<10		mg/kg	6.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
Motor Oil	44.6		mg/kg	7.1	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
N-Octacosane (Surr.)	117		%	1.0	1.0	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1
Arenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1
Bromofluorobenzene (surr.)	88.1		%	1	1	09/23/2004	ake		5822	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
824750	SB-65 14'	09/16/2004 11:55
Extraction Prep, soil	COMPLETE	09/20/2004 acm 3188 IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI		
Total Extractable Hydrocarbo	<10 mg/kg 10 10	10/04/2004 ljm 3188 5441 IA-OA2/S-8015
Diesel	<10 mg/kg 6.7 10	10/04/2004 ljm 3188 5441 IA-OA2/S-8015
Gasoline	<10 mg/kg 5.7 10	10/04/2004 ljm 3188 5441 IA-OA2/S-8015

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824750	SB-65 14'					09/16/2004 11:55				
Motor Oil	<10		mg/kg	7.1	10	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
N-Octacosane (Surr.)	101		%	1.0	1.0	10/04/2004	ljm	3188	5441	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1
4-Bromofluorobenzene (surr.)	87.8		%	1	1	09/23/2004	ake		5822	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824751	SB-63 2'					09/16/2004 12:15				
5035 VOC Preservation	Complete					09/20/2004	rlb		16	SW 846 - 5035
Solids, Total	95.78		%	0.01	0.01	09/17/2004	sas		2763	SM 2540 G
Arsenic, (GFAA) mdl	2.1		mg/kg dw	0.22	1.0	09/27/2004	heh	913	633	SW 7060A
Mercury, mdl	0.027	B	mg/kg dw	0.0013	0.0045	09/23/2004	heh		2064	SW 7471A
GFAA Metals Digestion	1.058		g			09/22/2004	tdo	913		SW 3050 B
ICP Metals Prep (Solid)	1.098		g			09/21/2004	tdo	1507		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	33.1		mg/kg dw	0.204	0.52	09/21/2004	heh	1507	2805	SW 6010B
Cadmium, (ICP) mdl	3.96		mg/kg dw	0.25	0.88	09/21/2004	heh	1507	2811	SW 6010B
Chromium, (ICP) mdl	5.01		mg/kg dw	0.41	1.0	09/21/2004	heh	1507	2810	SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824751	SB-63 2'					09/16/2004 12:15				
Lead, (ICP) mdl	22.6		mg/kg dw	5.2	5.2	09/21/2004	heh	1507	2827	SW 6010B
Selenium, (ICP) mdl	<7.8		mg/kg dw	7.8	7.8	09/21/2004	heh	1507	2804	SW 6010B
Silver, (ICP) mdl	<0.60		mg/kg dw	0.60	1.0	09/21/2004	heh	1507	639	SW 6010B
VOA 8260 NON-AQUEOUS LRL										
Acetone	16.2		ug/kg dw	8.4	25	09/21/2004	mmk		1045	SW 8260B
Benzene	1.93		ug/kg dw	0.57	1.72	09/21/2004	mmk		1045	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/21/2004	mmk		1045	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.98	09/21/2004	mmk		1045	SW 8260B
Bromodichloromethane	<2.35		ug/kg dw	2.35	7.05	09/21/2004	mmk		1045	SW 8260B
Bromoform	<3.50		ug/kg dw	3.50	10.4	09/21/2004	mmk		1045	SW 8260B
Bromomethane	<5.12		ug/kg dw	5.12	15.1	09/21/2004	mmk		1045	SW 8260B
Methyl ethyl ketone (MEK)	<0.89		ug/kg dw	0.89	2.09	09/21/2004	mmk		1045	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/21/2004	mmk		1045	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/21/2004	mmk		1045	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/21/2004	mmk		1045	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/21/2004	mmk		1045	SW 8260B
Chlorobenzene	<0.444		ug/kg dw	0.444	1.331	09/21/2004	mmk		1045	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.39	09/21/2004	mmk		1045	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/21/2004	mmk		1045	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/21/2004	mmk		1045	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
2-Chlorotoluene	<0.68		ug/kg dw	0.68	2.04	09/21/2004	mmk		1045	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/21/2004	mmk		1045	SW 8260B
1,2-Dibromoethane (EDB)	<3.08		ug/kg dw	3.08	9.24	09/21/2004	mmk		1045	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.35	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824751	SAMPLE DESCRIPTION SB-63 2'					DATE-TIME TAKEN 09/16/2004 12:15				
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.04	09/21/2004	mmk		1045	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.98	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethane	<0.84		ug/kg dw	0.84	2.5	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloroethene	<0.350		ug/kg dw	0.350	1.04	09/21/2004	mmk		1045	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.98	09/21/2004	mmk		1045	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.35	09/21/2004	mmk		1045	SW 8260B
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/21/2004	mmk		1045	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/21/2004	mmk		1045	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/21/2004	mmk		1045	SW 8260B
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/21/2004	mmk		1045	SW 8260B
cis-1,3-Dichloropropene	<0.84		ug/kg dw	0.84	2.51	09/21/2004	mmk		1045	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.35	09/21/2004	mmk		1045	SW 8260B
Ethylbenzene	0.63		ug/kg dw	0.57	1.72	09/21/2004	mmk		1045	SW 8260B
Hexachlorobutadiene	<3.03		ug/kg dw	3.03	9.08	09/21/2004	mmk		1045	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.09	09/21/2004	mmk		1045	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/21/2004	mmk		1045	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/21/2004	mmk		1045	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/21/2004	mmk		1045	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.09	09/21/2004	mmk		1045	SW 8260B
MTBE	<4.96		ug/kg dw	4.96	14.8	09/21/2004	mmk		1045	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.84	5.2	09/21/2004	mmk		1045	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/21/2004	mmk		1045	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/21/2004	mmk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824751	SB-63 2'					09/16/2004 12:15				
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.64	09/21/2004	mnk		1045	SW 8260B
1,1,2,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/21/2004	mnk		1045	SW 8260B
Tetrachloroethene	1.23		ug/kg dw	0.68	2.04	09/21/2004	mnk		1045	SW 8260B
Toluene	1.95		ug/kg dw	0.73	2.19	09/21/2004	mnk		1045	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mnk		1045	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/21/2004	mnk		1045	SW 8260B
1,1,1-Trichloroethane	3.63		ug/kg dw	1.10	3.29	09/21/2004	mnk		1045	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/21/2004	mnk		1045	SW 8260B
Trichloroethylene	155		ug/kg dw	0.99	2.98	09/21/2004	mnk		1045	SW 8260B
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/21/2004	mnk		1045	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/21/2004	mnk		1045	SW 8260B
2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/21/2004	mnk		1045	SW 8260B
3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/21/2004	mnk		1045	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.35	09/21/2004	mnk		1045	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/21/2004	mnk		1045	SW 8260B
4-Bromofluorobenzene (surr)	95		%			09/21/2004	mnk		1045	SW 8260B
Dibromofluoromethane (surr)	101		%			09/21/2004	mnk		1045	SW 8260B
Toluene-d8 (surr)	97		%			09/21/2004	mnk		1045	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824752	SAMPLE DESCRIPTION SB-62 2'					DATE-TIME TAKEN 09/16/2004 12:30				
Solids, Total	85.72		%	0.01	0.01	09/17/2004	sas		2763	SM 2540 G
Arsenic, (GFAA) mdl	5.8		mg/kg dw	0.24	1.2	09/27/2004	heh	913	633	SW 7060A
Mercury, mdl	0.0223	B	mg/kg dw	0.0014	0.0050	09/23/2004	heh		2064	SW 7471A
GFAA Metals Digestion	1.076		g			09/22/2004	tdo	913		SW 3050 B
ICP Metals Prep (Solid)	1.073		g			09/21/2004	tdo	1507		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	208		mg/kg dw	0.227	0.58	09/21/2004	heh	1507	2805	SW 6010B
Cadmium, (ICP) mdl	13.5		mg/kg dw	0.28	0.98	09/21/2004	heh	1507	2811	SW 6010B
Chromium, (ICP) mdl	13.1		mg/kg dw	0.45	1.2	09/21/2004	heh	1507	2810	SW 6010B
Lead, (ICP) mdl	70.3		mg/kg dw	5.8	5.8	09/21/2004	heh	1507	2827	SW 6010B
Selenium, (ICP) mdl	<17	R	mg/kg dw	8.7	8.7	09/21/2004	heh	1507	2804	SW 6010B
Silver, (ICP) mdl	<0.66		mg/kg dw	0.66	1.2	09/21/2004	heh	1507	639	SW 6010B

SAMPLE NO. 824753	SAMPLE DESCRIPTION MW-2					DATE-TIME TAKEN 09/16/2004 13:30				
Prep BNA (MDL)	Complete					09/20/2004	acm	445		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/23/2004	dmd		5729	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5729	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/23/2004	dmd		5729	SW 8260B

B - This analyte was detected in the method blank.
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
Bromobenzene	<0.38		ug/L	0.38	1.1	09/23/2004	dmd	5729	SW 8260B	
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd	5729	SW 8260B	
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Dibromomethane	<0.44		ug/L	0.44	1.3	09/23/2004	dmd	5729	SW 8260B	
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/23/2004	dmd	5729	SW 8260B	
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/23/2004	dmd	5729	SW 8260B	
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Chloroethane	<0.12		ug/L	0.12	0.36	09/23/2004	dmd	5729	SW 8260B	
Chloroform	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Chloromethane	0.43		ug/L	0.24	0.72	09/23/2004	dmd	5729	SW 8260B	
Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
p-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/23/2004	dmd	5729	SW 8260B	
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/23/2004	dmd	5729	SW 8260B	
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/23/2004	dmd	5729	SW 8260B	
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/23/2004	dmd	5729	SW 8260B	
1,1-Dichloroethane	0.41		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/23/2004	dmd	5729	SW 8260B	
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5729	SW 8260B	
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/23/2004	dmd	5729	SW 8260B	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
cis-1,2-Dichloroethene	2.04		ug/L	0.44	1.3	09/23/2004	dmd		5729	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/23/2004	dmd		5729	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/23/2004	dmd		5729	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5729	SW 8260B
Hexachlorobutadiene	<0.22		ug/L	0.22	0.66	09/23/2004	dmd		5729	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/23/2004	dmd		5729	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5729	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Hexane	0.19		ug/L	0.18	0.54	09/23/2004	dmd		5729	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/23/2004	dmd		5729	SW 8260E
Napthalene	<0.86		ug/L	0.86	2.6	09/23/2004	dmd		5729	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/23/2004	dmd		5729	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd		5729	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/23/2004	dmd		5729	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/23/2004	dmd		5729	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/23/2004	dmd		5729	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/23/2004	dmd		5729	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
1,1,1-Trichloroethane	2.28		ug/L	0.25	0.75	09/23/2004	dmd		5729	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/23/2004	dmd		5729	SW 8260B
Trichloroethylene	14.2		ug/L	0.43	1.3	09/23/2004	dmd		5729	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5729	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5729	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5729	SW 8260B
Dibromofluoromethane (surr)	103		%			09/23/2004	dmd		5729	SW 8260B
Toluene-d8 (surr)	92		%			09/23/2004	dmd		5729	SW 8260B
4-Bromofluorobenzene (surr)	85		%			09/23/2004	dmd		5729	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	09/28/2004	ake	445	848	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	09/28/2004	ake	445	848	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
Benzo(a)anthracene	<2.15		ug/L	2.15	6.45	09/28/2004	ake	445	848	SW 8270C
Benzo(b)fluoranthene	<2.72		ug/L	2.72	8.16	09/28/2004	ake	445	848	SW 8270C
Benzo(k)fluoranthene	<2.57		ug/L	2.57	7.71	09/28/2004	ake	445	848	SW 8270C
Benzo(a)pyrene	<2.6		ug/L	2.6	7.8	09/28/2004	ake	445	848	SW 8270C
Benzo(ghi)perylene	<2.47		ug/L	2.47	7.41	09/28/2004	ake	445	848	SW 8270C
Benzyl Alcohol	<2.78		ug/L	2.78	8.34	09/28/2004	ake	445	848	SW 8270C
Benzyl butyl phthalate	<2.5		ug/L	2.5	7.5	09/28/2004	ake	445	848	SW 8270C
Bis(2-chloroethyl)ether	<2.73		ug/L	2.73	8.19	09/28/2004	ake	445	848	SW 8270C
Bis(2-chloroethoxy)methane	<2.17		ug/L	2.17	6.51	09/28/2004	ake	445	848	SW 8270C
Bis(2-ethylhexyl)phthalate	<2.33		ug/L	2.33	6.99	09/28/2004	ake	445	848	SW 8270C
Bis(2-chloroisopropyl)ether	<3.05		ug/L	3.05	9.15	09/28/2004	ake	445	848	SW 8270C
4-Bromophenyl phenyl ether	<2.19		ug/L	2.19	6.57	09/28/2004	ake	445	848	SW 8270C
	<3.27		ug/L	3.27	9.81	09/28/2004	ake	445	848	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
4-Chloroaniline	<1.69		ug/L	1.69	5.07	09/28/2004	ake	445	848	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	09/28/2004	ake	445	848	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	09/28/2004	ake	445	848	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	09/28/2004	ake	445	848	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	09/28/2004	ake	445	848	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	09/28/2004	ake	445	848	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	09/28/2004	ake	445	848	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	09/28/2004	ake	445	848	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	09/28/2004	ake	445	848	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	09/28/2004	ake	445	848	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	09/28/2004	ake	445	848	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	09/28/2004	ake	445	848	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	09/28/2004	ake	445	848	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	09/28/2004	ake	445	848	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	09/28/2004	ake	445	848	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	09/28/2004	ake	445	848	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	09/28/2004	ake	445	848	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	09/28/2004	ake	445	848	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	09/28/2004	ake	445	848	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	09/28/2004	ake	445	848	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	09/28/2004	ake	445	848	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	09/28/2004	ake	445	848	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	09/28/2004	ake	445	848	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
Naphthalene	<2.68		ug/L	2.68	8.04	09/28/2004	ake	445	848	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	09/28/2004	ake	445	848	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	09/28/2004	ake	445	848	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	09/28/2004	ake	445	848	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	09/28/2004	ake	445	848	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	09/28/2004	ake	445	848	SW 8270C
2-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	09/28/2004	ake	445	848	SW 8270C
1,4-Dichlorobenzene	<1.51		ug/L	1.51	4.53	09/28/2004	ake	445	848	SW 8270C
Styrene	<2.8		ug/L	2.8	8.4	09/28/2004	ake	445	848	SW 8270C
Furidine	<1.36		ug/L	1.36	4.08	09/28/2004	ake	445	848	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	09/28/2004	ake	445	848	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	09/28/2004	ake	445	848	SW 8270C
Nitrobenzene-d5 (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
2-Fluorobiphenyl (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
Terphenyl-d14 (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	09/28/2004	ake	445	848	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	09/28/2004	ake	445	848	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	09/28/2004	ake	445	848	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	09/28/2004	ake	445	848	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	09/28/2004	ake	445	848	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	09/28/2004	ake	445	848	SW 8270C

** - Surrogate not added to sample due to a lab error.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824753	MW-2					09/16/2004 13:30				
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	09/28/2004	ake	445	848	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	09/28/2004	ake	445	848	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	09/28/2004	ake	445	848	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	09/28/2004	ake	445	848	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	09/28/2004	ake	445	848	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	09/28/2004	ake	445	848	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	09/28/2004	ake	445	848	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	09/28/2004	ake	445	848	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	09/28/2004	ake	445	848	SW 8270C
Phenol-d6 (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
2-Fluorophenol (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
Tribromophenol (surr)	0	**	%	100	100	09/28/2004	ake	445	848	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/28/2004	ake	445	848	SW 8270C
PCBs Wisconsin Aqueous						09/21/2004	scb	235		SW 3510
PCB 1016	<0.10		ug/L	0.10	0.30	09/28/2004	kak	235	649	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	09/28/2004	kak	235	649	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	09/28/2004	kak	235	649	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	09/28/2004	kak	235	649	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	09/28/2004	kak	235	649	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	09/28/2004	kak	235	649	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	09/28/2004	kak	235	649	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	09/28/2004	kak	235	649	SW 8082
Decachlorobiphenyl (Surr.)	30		%			09/28/2004	kak	235	649	SW 8082
Tetrachlorometaxylene (Surr.)	60		%			09/28/2004	kak	235	649	SW 8082
VOA Preservation pH	<2		units	NA		09/24/2004	sjg		1054	SW 9041A

** - Surrogate not added to sample due to a lab error.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824754	SB-56 2'					09/16/2004 14:50				
Solids, Total	98.07		%	0.01	0.01	09/17/2004	sas		2762	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/18/2004	acm	110		SW 3550
BNA Soil 8270 MDL										
Acenaphthene	<0.063		mg/kg dw	0.063	0.191	09/20/2004	ake	110	178	SW 8270C
Acenaphthylene	<0.059		mg/kg dw	0.059	0.178	09/20/2004	ake	110	178	SW 8270C
Anthracene	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C
Benzidine	<0.099		mg/kg dw	0.099	0.297	09/20/2004	ake	110	178	SW 8270C
Benzo(a)anthracene	<0.036		mg/kg dw	0.036	0.106	09/20/2004	ake	110	178	SW 8270C
Benzo(b)fluoranthene	<0.038		mg/kg dw	0.038	0.112	09/20/2004	ake	110	178	SW 8270C
Benzo(k)fluoranthene	<0.050		mg/kg dw	0.050	0.149	09/20/2004	ake	110	178	SW 8270C
Benzo(a)pyrene	<0.050		mg/kg dw	0.050	0.149	09/20/2004	ake	110	178	SW 8270C
Benzo(ghi)perylene	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C
Benzyl alcohol	<0.082		mg/kg dw	0.082	0.246	09/20/2004	ake	110	178	SW 8270C
Benzyl butyl phthalate	<0.044		mg/kg dw	0.044	0.131	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethyl)ether	<0.079		mg/kg dw	0.079	0.237	09/20/2004	ake	110	178	SW 8270C
Bis(2-chloroethoxy)methane	<0.074		mg/kg dw	0.074	0.224	09/20/2004	ake	110	178	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.033		mg/kg dw	0.033	0.097	09/20/2004	ake	110	178	SW 8270C
Bis(2chloroisopropyl)ether	<0.087		mg/kg dw	0.087	0.260	09/20/2004	ake	110	178	SW 8270C
4-Bromophenyl phenyl ether	<0.049		mg/kg dw	0.049	0.146	09/20/2004	ake	110	178	SW 8270C
Carbazole	<0.040		mg/kg dw	0.040	0.118	09/20/2004	ake	110	178	SW 8270C
4-Chloroaniline	<0.105		mg/kg dw	0.105	0.315	09/20/2004	ake	110	178	SW 8270C
2-Chloronaphthalene	<0.070		mg/kg dw	0.070	0.21	09/20/2004	ake	110	178	SW 8270C
4-Chlorophenylphenyl ether	<0.055		mg/kg dw	0.055	0.166	09/20/2004	ake	110	178	SW 8270C
Chrysene	<0.031		mg/kg dw	0.031	0.091	09/20/2004	ake	110	178	SW 8270C
Dibenzo(a,h)anthracene	<0.077		mg/kg dw	0.077	0.234	09/20/2004	ake	110	178	SW 8270C
Dibenzofuran	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/05/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824754	SB-56 2'					09/16/2004 14:50				
Di-n-butylphthalate	<0.044		mg/kg dw	0.044	0.131	09/20/2004	ake	110	178	SW 8270C
1,2-Dichlorobenzene	<0.104		mg/kg dw	0.104	0.312	09/20/2004	ake	110	178	SW 8270C
1,3-Dichlorobenzene	<0.093		mg/kg dw	0.093	0.278	09/20/2004	ake	110	178	SW 8270C
1,4-Dichlorobenzene	<0.086		mg/kg dw	0.086	0.257	09/20/2004	ake	110	178	SW 8270C
3,3-Dichlorobenzidine	<0.108		mg/kg dw	0.108	0.324	09/20/2004	ake	110	178	SW 8270C
Diethyl phthalate	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C
Dimethyl phthalate	<0.043		mg/kg dw	0.043	0.127	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrotoluene	<0.048		mg/kg dw	0.048	0.143	09/20/2004	ake	110	178	SW 8270C
2,6-Dinitrotoluene	<0.066		mg/kg dw	0.066	0.200	09/20/2004	ake	110	178	SW 8270C
Di-n-octylphthalate	<0.060		mg/kg dw	0.060	0.18	09/20/2004	ake	110	178	SW 8270C
Fluoranthene	<0.037		mg/kg dw	0.037	0.109	09/20/2004	ake	110	178	SW 8270C
Fluorene	<0.053		mg/kg dw	0.053	0.160	09/20/2004	ake	110	178	SW 8270C
Hexachlorobenzene	<0.030		mg/kg dw	0.030	0.088	09/20/2004	ake	110	178	SW 8270C
Hexachlorocyclopentadiene	<0.058		mg/kg dw	0.058	0.175	09/20/2004	ake	110	178	SW 8270C
Hexachloro-1,3-butadiene	<0.067		mg/kg dw	0.067	0.203	09/20/2004	ake	110	178	SW 8270C
Hexachloroethane	<0.083		mg/kg dw	0.083	0.249	09/20/2004	ake	110	178	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.032		mg/kg dw	0.032	0.094	09/20/2004	ake	110	178	SW 8270C
Isophorone	<0.059		mg/kg dw	0.059	0.178	09/20/2004	ake	110	178	SW 8270C
2-Methylnaphthalene	<0.064		mg/kg dw	0.064	0.194	09/20/2004	ake	110	178	SW 8270C
Naphthalene	<0.073		mg/kg dw	0.073	0.221	09/20/2004	ake	110	178	SW 8270C
2-Nitroaniline	<0.070		mg/kg dw	0.070	0.21	09/20/2004	ake	110	178	SW 8270C
3-Nitroaniline	<0.059		mg/kg dw	0.059	0.178	09/20/2004	ake	110	178	SW 8270C
4-Nitroaniline	<0.069		mg/kg dw	0.069	0.209	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene	<0.076		mg/kg dw	0.076	0.230	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodimethylamine	<0.112		mg/kg dw	0.112	0.336	09/20/2004	ake	110	178	SW 8270C
N-Nitrosodiphenylamine	<0.035		mg/kg dw	0.035	0.103	09/20/2004	ake	110	178	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
824754	SB-56 2'					09/16/2004 14:50				
N-Nitrosodi-n-propylamine	<0.084		mg/kg dw	0.084	0.252	09/20/2004	ake	110	178	SW 8270C
Phenanthrene	<0.039		mg/kg dw	0.039	0.115	09/20/2004	ake	110	178	SW 8270C
Pyrene	<0.051		mg/kg dw	0.051	0.15	09/20/2004	ake	110	178	SW 8270C
Pyridine	<0.113		mg/kg dw	0.113	0.340	09/20/2004	ake	110	178	SW 8270C
1,2,4-Trichlorobenzene	<0.073		mg/kg dw	0.073	0.221	09/20/2004	ake	110	178	SW 8270C
Nitrobenzene-d5 (surr)	87		%			09/20/2004	ake	110	178	SW 8270C
2-Fluorobiphenyl (surr)	86		%			09/20/2004	ake	110	178	SW 8270C
Terphenyl-d14 (surr)	118	OOO	%			09/20/2004	ake	110	178	SW 8270C
Benzoic Acid	<0.34		mg/kg dw	0.34	1.0	09/20/2004	ake	110	178	SW 8270C
4-Chloro-3-methylphenol	<0.072		mg/kg dw	0.072	0.218	09/20/2004	ake	110	178	SW 8270C
2-chlorophenol	<0.087		mg/kg dw	0.087	0.260	09/20/2004	ake	110	178	SW 8270C
3-Methylphenol	<0.079		mg/kg dw	0.079	0.237	09/20/2004	ake	110	178	SW 8270C
4-Methylphenol	<0.081		mg/kg dw	0.081	0.24	09/20/2004	ake	110	178	SW 8270C
Resols, Total	<0.159		mg/kg dw	0.159	0.478	09/20/2004	ake	110	178	SW 8270C
2,4-Dichlorophenol	<0.074		mg/kg dw	0.074	0.224	09/20/2004	ake	110	178	SW 8270C
2,4-Dimethylphenol	<0.063		mg/kg dw	0.063	0.191	09/20/2004	ake	110	178	SW 8270C
2,4-Dinitrophenol	<0.029		mg/kg dw	0.029	0.085	09/20/2004	ake	110	178	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.106		mg/kg dw	0.106	0.318	09/20/2004	ake	110	178	SW 8270C
2-Nitrophenol	<0.113		mg/kg dw	0.113	0.340	09/20/2004	ake	110	178	SW 8270C
4-Nitrophenol	<0.066		mg/kg dw	0.066	0.200	09/20/2004	ake	110	178	SW 8270C
Pentachlorophenol	<0.077		mg/kg dw	0.077	0.234	09/20/2004	ake	110	178	SW 8270C
Phenol	<0.077		mg/kg dw	0.077	0.234	09/20/2004	ake	110	178	SW 8270C
2,4,5-Trichlorophenol	<0.069		mg/kg dw	0.069	0.209	09/20/2004	ake	110	178	SW 8270C
2,4,6-Trichlorophenol	<0.054		mg/kg dw	0.054	0.163	09/20/2004	ake	110	178	SW 8270C
Phenol-d6 (surr)	88		%			09/20/2004	ake	110	178	SW 8270C
2-Fluorophenol (surr)	82		%			09/20/2004	ake	110	178	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 824754	SAMPLE DESCRIPTION SB-56 2'								DATE-TIME TAKEN 09/16/2004 14:50	
Tribromophenol (surr)	113		%			09/20/2004	ake	110	178	SW 8270C

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Arsenic, (GFAA) mdl		633	0.0250	mg/L	0.02646	106		09/27/2004
Mercury, mdl		2064	1.00	mg/L	1.08	108		09/23/2004
ICP Metals-Solid mdl								
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2805	5.00	ppm	5.26	105		09/21/2004
Barium, (ICP) mdl		2805	5.00	ppm	5.00	100		09/21/2004
Barium, (ICP) mdl		2805	5.00	ppm	5.07	101		09/21/2004
Cadmium, (ICP) mdl		2811	5.00	ppm	5.26	105		09/21/2004
Cadmium, (ICP) mdl		2811	5.00	ppm	5.11	102		09/21/2004
Cadmium, (ICP) mdl		2811	5.00	ppm	5.23	105		09/21/2004
Chromium, (ICP) mdl		2810	5.00	ppm	5.31	106		09/21/2004
Chromium, (ICP) mdl		2810	5.00	ppm	5.14	103		09/21/2004
Chromium, (ICP) mdl		2810	5.00	ppm	5.16	103		09/21/2004
Lead, (ICP) mdl		2827	5.00	ppm	5.27	105		09/21/2004
Lead, (ICP) mdl		2827	5.00	ppm	5.17	103		09/21/2004
Lead, (ICP) mdl		2827	5.00	ppm	5.24	105		09/21/2004
Selenium, (ICP) mdl		2804	5.00	ppm	5.32	106		09/21/2004
Selenium, (ICP) mdl		2804	5.00	ppm	5.10	102		09/21/2004
Selenium, (ICP) mdl		2804	5.00	ppm	5.04	101		09/21/2004
Silver, (ICP) mdl		639	1.00	ppm	1.02	102		09/21/2004
Silver, (ICP) mdl		639	1.00	ppm	0.99	99		09/21/2004
Silver, (ICP) mdl		639	1.00	ppm	0.99	99		09/21/2004
VOLATILE COMPOUNDS								
Benzene		5729	50.0	ug/L	51.3	103		09/22/2004
Chlorobenzene		5729	50.0	ug/L	47.8	96		09/22/2004
1,1-Dichloroethene		5729	50.0	ug/L	55.3	111		09/22/2004
Ethylbenzene		5729	50.0	ug/L	46.8	94		09/22/2004
MTBE		5729	50.0	ug/L	45.7	91		09/22/2004
1,2,4-Trimethylbenzene		5729	50.0	ug/L	46.7	93		09/22/2004
Toluene		5729	50.0	ug/L	49.1	98		09/22/2004
1,3,5-Trimethylbenzene		5729	50.0	ug/L	48.1	96		09/22/2004

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Trichloroethylene		5729	50.0	ug/L	50.8	102		09/22/2004
Xylenes, Total		5729	150.0	ug/L	147	98		09/22/2004
Dibromofluoromethane (surr)		5729	100	%	102	102		09/22/2004
Toluene-d8 (surr)		5729	100	%	96	96		09/22/2004
4-Bromofluorobenzene (surr)		5729	100	%	94	94		09/22/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	50.0	ug/L	55.2	110		09/21/2004
Bromoform		1045	50.0	ug/L	57.3	115		09/21/2004
Chlorobenzene		1045	50.0	ug/L	52.4	105		09/21/2004
1,1-Dichloroethane		1045	50.0	ug/L	55.4	111		09/21/2004
1,1-Dichloroethene		1045	50.0	ug/L	56.8	114		09/21/2004
Ethylbenzene		1045	50.0	ug/L	52.3	105		09/21/2004
MTBE		1045	50.0	ug/L	55.3	111		09/21/2004
1,1,2,2-Tetrachloroethane		1045	50.0	ug/L	51.7	103		09/21/2004
Toluene		1045	50.0	ug/L	51.2	102		09/21/2004
Trichloroethylene		1045	50.0	ug/L	56.3	113		09/21/2004
1,2,4-Trimethylbenzene		1045	50.0	ug/L	51.7	103		09/21/2004
1,3,5-Trimethylbenzene		1045	50.0	ug/L	53.4	107		09/21/2004
Vinyl Chloride		1045	50.0	ug/L	62.4	125		09/21/2004
Xylenes, Total		1045	150.0	ug/L	154	103		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	103	103		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	98	98		09/21/2004
Toluene-d8 (surr)		1045	100	%	97	97		09/21/2004
BNA Soil 8270 MDL								
Acenaphthene		178	50	ug/L	47	94		09/20/2004
Bis(2-ethylhexyl)phthalate		178	50	ug/L	51	102		09/20/2004
1,4-Dichlorobenzene		178	50	ug/L	47	94		09/20/2004
2,4-Dinitrotoluene		178	50	ug/L	51	102		09/20/2004
N-Nitrosodi-n-propylamine		178	50	ug/L	48	96		09/20/2004
Pyrene		178	50	ug/L	51	102		09/20/2004
1,2,4-Trichlorobenzene		178	50	ug/L	48	96		09/20/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Nitrobenzene-d5 (surr)		178	50.0	%	50.1	100		09/20/2004
2-Fluorobiphenyl (surr)		178	50.0	%	47.0	94		09/20/2004
Terphenyl-d14 (surr)		178	50.0	%	50.9	102		09/20/2004
4-Chloro-3-methylphenol		178	50	ug/L	47	94		09/20/2004
2-chlorophenol		178	50	ug/L	47	94		09/20/2004
4-Nitrophenol		178	50	ug/L	52	104		09/20/2004
Pentachlorophenol		178	50	ug/L	50	100		09/20/2004
Phenol		178	50	ug/L	47	94		09/20/2004
Phenol-d6 (surr)		178	100	%	48	48		09/20/2004
2-Fluorophenol (surr)		178	100	%	45	45		09/20/2004
Tribromophenol (surr)		178	100	%	50	50		09/20/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		848	60.00	ug/L	57.0	95		09/28/2004
1,4-Dichlorobenzene		848	60.00	ug/L	56.9	95		09/28/2004
2,4-Dinitrotoluene		848	60.00	ug/L	60.8	101		09/28/2004
N-Nitrosodi-n-propylamine		848	60.00	ug/L	56.5	94		09/28/2004
Pyrene		848	60.00	ug/L	56.9	95		09/28/2004
1,2,4-Trichlorobenzene		848	60.00	ug/L	57.9	96		09/28/2004
Nitrobenzene-d5 (surr)		848	60.00	ug/L	60.1	100		09/28/2004
2-Fluorobiphenyl (surr)		848	60.00	ug/L	56.2	94		09/28/2004
Terphenyl-d14 (surr)		848	60.00	ug/L	55.9	93		09/28/2004
4-Chloro-3-methylphenol		848	60.00	ug/L	58.2	97		09/28/2004
2-chlorophenol		848	60.00	ug/L	60.5	101		09/28/2004
4-Nitrophenol		848	60.00	ug/L	59.3	99		09/28/2004
Pentachlorophenol		848	60.00	ug/L	46.1	77		09/28/2004
Phenol		848	60.00	ug/L	60.9	102		09/28/2004
Phenol-d6 (surr)		848	120.0	ug/L	122	102		09/28/2004
2-Fluorophenol (surr)		848	120.0	ug/L	119	99		09/28/2004
Tribromophenol (surr)		848	120.0	ug/L	121	101		09/28/2004
PCB's Non-Aqueous								
PCB-1242		1901	0.96	ppm	0.96	100		09/30/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Decachlorobiphenyl (Surr.)		1901	100	%	95	95		09/30/2004
Tetrachlorometaxylene (Surr.)		1901	100	%	103	103		09/30/2004
PCB's Non-Aqueous								
PCB-1242		1901	0.96	ppm	1.03	107		10/01/2004
Decachlorobiphenyl (Surr.)		1901	100	%	91	91		10/01/2004
Tetrachlorometaxylene (Surr.)		1901	100	%	114	114		10/01/2004
PCB's Non-Aqueous								
PCB-1260		1904	0.96	ppm	1.10	115		10/04/2004
Decachlorobiphenyl (Surr.)		1904	100	%	96	96		10/04/2004
Tetrachlorometaxylene (Surr.)		1904	100	%	99	99		10/04/2004
PCB's Non-Aqueous								
PCB-1260		1904	0.64	ppm	0.66	103		10/04/2004
Decachlorobiphenyl (Surr.)		1904	100	%	88	88		10/04/2004
Tetrachlorometaxylene (Surr.)		1904	100	%	96	96		10/04/2004
PCBs Wisconsin Aqueous								
PCB-1221		649	0.64	ppm	0.59	92		09/28/2004
Decachlorobiphenyl (Surr.)		649	100	%	112	112		09/28/2004
Tetrachlorometaxylene (Surr.)		649	100	%	112	112		09/28/2004
PCBs Wisconsin Aqueous								
PCB-1221		649	0.96	ppm	0.91	95		09/28/2004
Decachlorobiphenyl (Surr.)		649	100	%	98	98		09/28/2004
Tetrachlorometaxylene (Surr.)		649	100	%	97	97		09/28/2004
EXTRACTABLE HYDROCARBONS-WATER								
Diesel		4714	2,500	ppm	2,700	108		10/01/2004
Gasoline		4714	2,500	ppm	2,270	91		10/01/2004
Motor Oil		4714	2,500	ppm	2,760	110		10/01/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5441	2,500	mg/kg	2,610	104		10/04/2004
Gasoline		5441	2,500	mg/kg	2,440	98		10/04/2004
Motor Oil		5441	2,500	mg/kg	2,430	97		10/04/2004
VOLATILES - BTEX (WATER)								

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Benzene		11067	100.	ug/L	104	104		09/23/2004
Toluene		11067	100.	ug/L	103	103		09/23/2004
Ethylbenzene		11067	100.	ug/L	108	108		09/23/2004
Xylenes, Total		11067	200	ug/L	205	102		09/23/2004
4-Bromofluorobenzene (surr.)		11067	100.0	%	99.8	100		09/23/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	50.0	mg/kg	49.0	98		09/23/2004
Toluene		5822	50.0	mg/kg	48.9	98		09/23/2004
Ethylbenzene		5822	50.0	mg/kg	48.6	97		09/23/2004
Xylenes, Total		5822	100	mg/kg	97.2	97		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	97.9	98		09/23/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Arsenic, (GFAA) mdl	913	633	<0.0021		mg/L	0.21	1.0	09/27/2004
Mercury, mdl		2064	0.0026	B	mg/kg	0.0012	0.0043	09/23/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl	1507	2805	<0.0039		mg/L	0.195	0.50	09/21/2004
Cadmium, (ICP) mdl	1507	2811	<0.0048		mg/L	0.24	0.84	09/21/2004
Chromium, (ICP) mdl	1507	2810	<0.0078		mg/L	0.39	1.0	09/21/2004
Lead, (ICP) mdl	1507	2827	<0.10		mg/L	5.0	5.0	09/21/2004
Lead, (ICP) mdl		2827	<0.10		mg/L	5.0	5.0	09/21/2004
Selenium, (ICP) mdl	1507	2804	<0.15		mg/L	7.5	7.5	09/21/2004
Selenium, (ICP) mdl		2804	<0.15		mg/L	7.5	7.5	09/21/2004
Silver, (ICP) mdl	1507	639	<0.00114		mg/L	0.57	1.0	09/21/2004
VOLATILE COMPOUNDS								
Benzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Bromodichloromethane		5729	<0.46		ug/L	0.46	1.4	09/22/2004
Bromoform		5729	<0.38		ug/L	0.38	1.1	09/22/2004
Bromomethane		5729	<0.62		ug/L	0.62	1.9	09/22/2004
Bromobenzene		5729	<0.38		ug/L	0.38	1.1	09/22/2004
Carbon disulfide		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Bromochloromethane		5729	<0.40		ug/L	0.40	1.2	09/22/2004
Carbon tetrachloride		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Dibromomethane		5729	<0.44		ug/L	0.44	1.3	09/22/2004
Chlorobenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
n-Butylbenzene		5729	0.13	B	ug/L	0.13	0.39	09/22/2004
sec-Butylbenzene		5729	<0.16		ug/L	0.16	0.48	09/22/2004
tert-Butylbenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Chloroethane		5729	<0.12		ug/L	0.12	0.36	09/22/2004
Chloroform		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Chloromethane		5729	<0.24		ug/L	0.24	0.72	09/22/2004
2-Chlorotoluene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
4-Chlorotoluene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Chlorodibromomethane		5729	<0.42		ug/L	0.42	1.3	09/22/2004
1,2-Dibromo-3-chloropropane		5729	<0.30		ug/L	0.30	0.90	09/22/2004
1,2-Dibromoethane (EDB)		5729	<0.42		ug/L	0.42	1.3	09/22/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

10/05/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2-Dichlorobenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,3-Dichlorobenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,4-Dichlorobenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Dichlorodifluoromethane		5729	<0.40		ug/L	0.4	1.2	09/22/2004
1,1-Dichloroethane		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,2-Dichloroethane		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Di-Isopropylether		5729	<0.32		ug/L	0.32	0.96	09/22/2004
1,3-Dichloropropane		5729	<0.25		ug/L	0.25	0.75	09/22/2004
2,2-Dichloropropane		5729	<0.73		ug/L	0.73	2.2	09/22/2004
1,1-Dichloropropene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,1-Dichloroethene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
trans-1,2-Dichloroethene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
cis-1,2-Dichloroethene		5729	<0.44		ug/L	0.44	1.3	09/22/2004
1,2-Dichloropropane		5729	<0.12		ug/L	0.12	0.36	09/22/2004
cis-1,3-Dichloropropene		5729	<0.43		ug/L	0.43	1.2	09/22/2004
trans-1,3-Dichloropropene		5729	<0.44		ug/L	0.44	1.3	09/22/2004
Hexachlorobutadiene		5729	<0.22		ug/L	0.22	0.66	09/22/2004
Ethylbenzene		5729	<0.43		ug/L	0.43	1.3	09/22/2004
Isopropylbenzene		5729	<0.44		ug/L	0.44	1.3	09/22/2004
p-Isopropyltoluene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Hexane		5729	<0.18		ug/L	0.18	0.54	09/22/2004
MTBE		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Methylene chloride		5729	<0.63		ug/L	0.63	1.9	09/22/2004
Napthalene		5729	<0.86		ug/L	0.86	2.6	09/22/2004
n-Propylbenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
Styrene		5729	<0.41		ug/L	0.41	1.2	09/22/2004
1,1,1,2-Tetrachloroethane		5729	<0.40		ug/L	0.40	1.2	09/22/2004
1,1,2,2-Tetrachloroethane		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,2,3-Trichlorobenzene		5729	1.11	B	ug/L	0.40	1.2	09/22/2004
1,2,4-Trichlorobenzene		5729	0.66	B	ug/L	0.25	0.75	09/22/2004
Tetrachloroethene		5729	<0.37		ug/L	0.37	1.1	09/22/2004
1,2,3-Trichloropropane		5729	<0.49		ug/L	0.49	1.5	09/22/2004
1,2,4-Trimethylbenzene		5729	<0.25		ug/L	0.25	0.75	09/22/2004

QUALITY CONTROL REPORT BLANKS

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HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Toluene		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,3,5-Trimethylbenzene		5729	<0.14		ug/L	0.14	0.42	09/22/2004
1,1,1-Trichloroethane		5729	<0.25		ug/L	0.25	0.75	09/22/2004
1,1,2-Trichloroethane		5729	<0.10		ug/L	0.10	0.3	09/22/2004
Trichloroethylene		5729	<0.43		ug/L	0.43	1.3	09/22/2004
Trichlorofluoromethane		5729	<0.47		ug/L	0.47	1.4	09/22/2004
Vinyl chloride		5729	<0.47		ug/L	0.47	1.4	09/22/2004
Xylenes, Total		5729	<0.38		ug/L	0.38	1.1	09/22/2004
Dibromofluoromethane (surr)		5729	103.0		%			09/22/2004
Toluene-d8 (surr)		5729	92.0		%			09/22/2004
4-Bromofluorobenzene (surr)		5729	87.0		%			09/22/2004
VOA 8260 NON-AQUEOUS LRL								09/22/2004
Acetone		1045	<8.0		ug/kg	8.0	24	09/21/2004
Benzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Bromobenzene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Bromochloromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Bromodichloromethane		1045	<2.25		ug/kg	2.25	6.75	09/21/2004
Bromoform		1045	<3.35		ug/kg	3.35	10.0	09/21/2004
Bromomethane		1045	<4.90		ug/kg	4.90	14.5	09/21/2004
Methyl ethyl ketone (MEK)		1045	<0.85		ug/kg	0.85	2.00	09/21/2004
n-Butylbenzene		1045	<5.0		ug/kg	0.47	5.0	09/21/2004
sec-Butylbenzene		1045	<5.0		ug/kg	1.45	5.0	09/21/2004
tert-Butylbenzene		1045	<5.0		ug/kg	0.5	5.0	09/21/2004
Carbon tetrachloride		1045	<6.0		ug/kg	6.0	18.0	09/21/2004
Chlorobenzene		1045	<0.425		ug/kg	0.425	1.275	09/21/2004
Chlorodibromomethane		1045	<1.40		ug/kg	1.40	4.20	09/21/2004
Chloroethane		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
Chloroform		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
Chloromethane		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
2-Chlorotoluene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
4-Chlorotoluene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
1,2-Dibromo-3-chloropropane		1045	<10		ug/kg	10	30	09/21/2004
1,2-Dibromoethane (EDB)		1045	<2.95		ug/kg	2.95	8.85	09/21/2004

QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dibromomethane		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,3-Dichlorobenzene		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,4-Dichlorobenzene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Dichlorodifluoromethane		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
1,1-Dichloroethane		1045	<0.80		ug/kg	0.80	2.4	09/21/2004
1,2-Dichloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
1,1-Dichloroethene		1045	<0.335		ug/kg	0.335	1.00	09/21/2004
cis-1,2-Dichloroethene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
trans-1,2-Dichloroethene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
1,2-Dichloropropane		1045	<0.43		ug/kg	0.43	1.29	09/21/2004
1,3-Dichloropropane		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
2,2-Dichloropropane		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
1,1-Dichloropropene		1045	<0.85		ug/kg	0.85	2.55	09/21/2004
cis-1,3-Dichloropropene		1045	<0.80		ug/kg	0.80	2.40	09/21/2004
trans-1,3-Dichloropropene		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Ethylbenzene		1045	<0.55		ug/kg	0.55	1.65	09/21/2004
Hexachlorobutadiene		1045	<2.90		ug/kg	2.90	8.70	09/21/2004
2-Hexanone		1045	<0.55		ug/kg	0.55	2.00	09/21/2004
Isopropylbenzene		1045	<0.36		ug/kg	0.36	1.08	09/21/2004
p-Isopropyltoluene		1045	<0.5		ug/kg	0.5	1.5	09/21/2004
Methylene chloride		1045	<50		ug/kg	7.0	50	09/21/2004
Methyl isobutyl ketone		1045	<0.70		ug/kg	0.70	2.00	09/21/2004
MTBE		1045	<4.75		ug/kg	4.75	14.2	09/21/2004
Naphthalene		1045	<5.0		ug/kg	0.80	5.0	09/21/2004
n-Propylbenzene		1045	<5.0		ug/kg	0.55	5.0	09/21/2004
Styrene		1045	<0.38		ug/kg	0.38	1.14	09/21/2004
1,1,1,2-Tetrachloroethane		1045	<1.80		ug/kg	1.80	5.40	09/21/2004
1,1,2,2-Tetrachloroethane		1045	<1.1		ug/kg	1.1	3.3	09/21/2004
Tetrachloroethene		1045	<0.65		ug/kg	0.65	1.95	09/21/2004
Toluene		1045	<0.70		ug/kg	0.70	2.10	09/21/2004
1,2,3-Trichlorobenzene		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
1,2,4-Trichlorobenzene		1045	<5.0		ug/kg	0.32	5.0	09/21/2004

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1,1,1-Trichloroethane		1045	<1.05		ug/kg	1.05	3.15	09/21/2004
1,1,2-Trichloroethane		1045	<1.2		ug/kg	1.2	3.6	09/21/2004
Trichloroethylene		1045	<0.95		ug/kg	0.95	2.85	09/21/2004
Trichlorofluoromethane		1045	<0.44		ug/kg	0.44	1.34	09/21/2004
1,2,3-Trichloropropane		1045	<0.90		ug/kg	0.90	2.7	09/21/2004
1,2,4-Trimethylbenzene		1045	<5.0		ug/kg	1.4	5.0	09/21/2004
1,3,5-Trimethylbenzene		1045	<5.0		ug/kg	2.3	5.0	09/21/2004
Vinyl Chloride		1045	<0.75		ug/kg	0.75	2.25	09/21/2004
Xylenes, Total		1045	<5.0		ug/kg	1.6	5.0	09/21/2004
4-Bromofluorobenzene (surr)		1045	97		%			09/21/2004
Dibromofluoromethane (surr)		1045	96		%			09/21/2004
Toluene-d8 (surr)		1045	95		%			09/21/2004
BNA Soil 8270 MDL								09/21/2004
Acenaphthene	110	176	<0.063	L	mg/kg	0.063	0.189	09/20/2004
Acenaphthylene	110	176	<0.059		mg/kg	0.059	0.177	09/20/2004
Anthracene	110	176	<0.039		mg/kg	0.039	0.117	09/20/2004
Benzdine	110	176	<0.098		mg/kg	0.098	0.294	09/20/2004
Benzo(a)anthracene	110	176	<0.035		mg/kg	0.035	0.105	09/20/2004
Benzo(b)fluoranthene	110	176	<0.037		mg/kg	0.037	0.111	09/20/2004
Benzo(k)fluoranthene	110	176	<0.049		mg/kg	0.049	0.147	09/20/2004
Benzo(a)pyrene	110	176	<0.049		mg/kg	0.049	0.147	09/20/2004
Benzo(ghi)perylene	110	176	<0.039		mg/kg	0.039	0.117	09/20/2004
Benzyl alcohol	110	176	<0.081		mg/kg	0.081	0.243	09/20/2004
Benzyl butyl phthalate	110	176	<0.043		mg/kg	0.043	0.129	09/20/2004
Bis(2-chloroethyl)ether	110	176	<0.078		mg/kg	0.078	0.234	09/20/2004
Bis(2-chloroethoxy)methane	110	176	<0.074		mg/kg	0.074	0.222	09/20/2004
Bis(2-ethylhexyl)phthalate	110	176	<0.032		mg/kg	0.032	0.096	09/20/2004
Bis(2chloroisopropyl)ether	110	176	<0.086		mg/kg	0.086	0.258	09/20/2004
4-Bromophenyl phenyl ether	110	176	<0.048		mg/kg	0.048	0.144	09/20/2004
Carbazole	110	176	<0.039		mg/kg	0.039	0.117	09/20/2004
4-Chloroaniline	110	176	<0.104		mg/kg	0.104	0.312	09/20/2004
2-Chloronaphthalene	110	176	<0.070		mg/kg	0.070	0.21	09/20/2004
4-Chlorophenylphenyl ether	110	176	<0.055		mg/kg	0.055	0.165	09/20/2004

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Chrysene	110	176	<0.030		mg/kg	0.030	0.090	09/20/2004
Dibenzo(a,h)anthracene	110	176	<0.077		mg/kg	0.077	0.231	09/20/2004
Dibenzofuran	110	176	<0.047		mg/kg	0.047	0.141	09/20/2004
Di-n-butylphthalate	110	176	<0.043		mg/kg	0.043	0.129	09/20/2004
1,2-Dichlorobenzene	110	176	<0.103		mg/kg	0.103	0.309	09/20/2004
1,3-Dichlorobenzene	110	176	<0.092		mg/kg	0.092	0.276	09/20/2004
1,4-Dichlorobenzene	110	176	<0.085		mg/kg	0.085	0.255	09/20/2004
3,3-Dichlorobenzidine	110	176	<0.107		mg/kg	0.107	0.321	09/20/2004
Diethyl phthalate	110	176	<0.047		mg/kg	0.047	0.141	09/20/2004
2,4-Dinitrotoluene	110	176	<0.047	L	mg/kg	0.047	0.141	09/20/2004
2,6-Dinitrotoluene	110	176	<0.066		mg/kg	0.066	0.198	09/20/2004
Di-n-octylphthalate	110	176	<0.060		mg/kg	0.060	0.18	09/20/2004
Fluorene	110	176	<0.053		mg/kg	0.053	0.159	09/20/2004
Hexachlorobenzene	110	176	<0.029		mg/kg	0.029	0.087	09/20/2004
Hexachlorocyclopentadiene	110	176	<0.058		mg/kg	0.058	0.174	09/20/2004
Hexachloro-1,3-butadiene	110	176	<0.067		mg/kg	0.067	0.201	09/20/2004
Hexachloroethane	110	176	<0.082		mg/kg	0.082	0.246	09/20/2004
Indeno(1,2,3-cd)pyrene	110	176	<0.031		mg/kg	0.031	0.093	09/20/2004
Isophorone	110	176	<0.059		mg/kg	0.059	0.177	09/20/2004
2-Methylnaphthalene	110	176	<0.064		mg/kg	0.064	0.192	09/20/2004
Naphthalene	110	176	<0.073		mg/kg	0.073	0.219	09/20/2004
2-Nitroaniline	110	176	<0.070		mg/kg	0.070	0.21	09/20/2004
3-Nitroaniline	110	176	<0.059		mg/kg	0.059	0.177	09/20/2004
4-Nitroaniline	110	176	<0.069		mg/kg	0.069	0.207	09/20/2004
Nitrobenzene	110	176	<0.076		mg/kg	0.076	0.228	09/20/2004
N-Nitrosodimethylamine	110	176	<0.111		mg/kg	0.111	0.333	09/20/2004
N-Nitrosodiphenylamine	110	176	<0.034		mg/kg	0.034	0.102	09/20/2004
N-Nitrosodi-n-propylamine	110	176	<0.083		mg/kg	0.083	0.249	09/20/2004
Phenanthrene	110	176	<0.038		mg/kg	0.038	0.114	09/20/2004
Pyrene	110	176	<0.050	L	mg/kg	0.050	0.15	09/20/2004
Pyridine	110	176	<0.112		mg/kg	0.112	0.336	09/20/2004
1,2,4-Trichlorobenzene	110	176	<0.073	L	mg/kg	0.073	0.219	09/20/2004
Nitrobenzene-d5 (surr)	110	176	78.0		%			09/20/2004

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2-Fluorobiphenyl (surr)	110	176	78.0	L	%			09/20/2004
Terphenyl-d14 (surr)	110	176	122.0	OOCL	%			09/20/2004
Benzoic Acid	110	176	<0.33		mg/kg	0.33	0.99	09/20/2004
4-Chloro-3-methylphenol	110	176	<0.072	L	mg/kg	0.072	0.216	09/20/2004
2-chlorophenol	110	176	<0.086		mg/kg	0.086	0.258	09/20/2004
2-Methylphenol	110	176	<0.078		mg/kg	0.078	0.234	09/20/2004
4-Methylphenol	110	176	<0.080		mg/kg	0.080	0.24	09/20/2004
Cresols, Total	110	176	<0.158		mg/kg	0.158	0.474	09/20/2004
2,4-Dichlorophenol	110	176	<0.074		mg/kg	0.074	0.222	09/20/2004
2,4-Dimethylphenol	110	176	<0.063		mg/kg	0.063	0.189	09/20/2004
2,4-Dinitrophenol	110	176	<0.028		mg/kg	0.028	0.084	09/20/2004
2-Methyl-4,6-dinitrophenol	110	176	<0.105		mg/kg	0.105	0.315	09/20/2004
2-Nitrophenol	110	176	<0.112		mg/kg	0.112	0.336	09/20/2004
4-Nitrophenol	110	176	<0.066		mg/kg	0.066	0.198	09/20/2004
Pentachlorophenol	110	176	<0.077	L	mg/kg	0.077	0.231	09/20/2004
Phenol	110	176	<0.077		mg/kg	0.077	0.231	09/20/2004
2,4,5-Trichlorophenol	110	176	<0.069		mg/kg	0.069	0.207	09/20/2004
2,4,6-Trichlorophenol	110	176	<0.054		mg/kg	0.054	0.162	09/20/2004
Phenol-d6 (surr)	110	176	75.0		%			09/20/2004
2-Fluorophenol (surr)	110	176	73.0		%			09/20/2004
Tribromophenol (surr)	110	176	114.0		%			09/20/2004
BNA - 8270 AQUEOUS WI								09/20/2004
Acenaphthene	445	846	<2.9		ug/L	2.9	8.7	09/24/2004
Acenaphthylene	445	846	<2.52		ug/L	2.52	7.56	09/24/2004
Anthracene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
Benzidine	445	846	<2.15		ug/L	2.15	6.45	09/24/2004
Benzo(a)anthracene	445	846	<2.72		ug/L	2.72	8.16	09/24/2004
Benzo(b)fluoranthene	445	846	<2.57		ug/L	2.57	7.71	09/24/2004
Benzo(k)fluoranthene	445	846	<2.6		ug/L	2.6	7.8	09/24/2004
Benzo(a)pyrene	445	846	<2.47		ug/L	2.47	7.41	09/24/2004
Benzo(ghi)perylene	445	846	<2.78		ug/L	2.78	8.34	09/24/2004
Benzyl Alcohol	445	846	<2.5		ug/L	2.5	7.5	09/24/2004
Benzyl butyl phthalate	445	846	<2.73		ug/L	2.73	8.19	09/24/2004

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Bis(2-chloroethyl)ether	445	846	<2.17		ug/L	2.17	6.51	09/24/2004
Bis(2-chloroethoxy)methane	445	846	<2.33		ug/L	2.33	6.99	09/24/2004
Bis(2-ethylhexyl)phthalate	445	846	<3.05		ug/L	3.05	9.15	09/24/2004
Bis(2chloroisopropyl)ether	445	846	<2.19		ug/L	2.19	6.57	09/24/2004
4-Bromophenyl phenyl ether	445	846	<3.27		ug/L	3.27	9.81	09/24/2004
4-Chloroaniline	445	846	<1.69		ug/L	1.69	5.07	09/24/2004
2-Chloronaphthalene	445	846	<2.32		ug/L	2.32	6.96	09/24/2004
4-Chlorophenylphenyl ether	445	846	<2.58		ug/L	2.58	7.74	09/24/2004
Chrysene	445	846	<2.67		ug/L	2.67	8.01	09/24/2004
Dibenzo(a,h)anthracene	445	846	<2.73		ug/L	2.73	8.19	09/24/2004
Dibenzofuran	445	846	<1.97		ug/L	1.97	5.91	09/24/2004
Di-n-butylphthalate	445	846	<2.49		ug/L	2.49	7.47	09/24/2004
1,2-Dichlorobenzene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
1,3-Dichlorobenzene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
1,4-Dichlorobenzene	445	846	<2.1		ug/L	2.1	6.3	09/24/2004
3,3-Dichlorobenzidine	445	846	<1.55		ug/L	1.55	4.65	09/24/2004
Diethyl phthalate	445	846	<2.49		ug/L	2.49	7.47	09/24/2004
1,2-Diphenylhydrazine	445	846	<2.36		ug/L	2.36	7.08	09/24/2004
Dimethyl phthalate	445	846	<2.58		ug/L	2.58	7.74	09/24/2004
2,4-Dinitrotoluene	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
2,6-Dinitrotoluene	445	846	<1.55		ug/L	1.55	4.65	09/24/2004
Di-n-octylphthalate	445	846	<2.82		ug/L	2.82	8.46	09/24/2004
Fluoranthene	445	846	<2.08		ug/L	2.08	6.24	09/24/2004
Fluorene	445	846	<2.13		ug/L	2.13	6.39	09/24/2004
Hexachlorobenzene	445	846	<2.15		ug/L	2.15	6.45	09/24/2004
Hexachloro-1,3-butadiene	445	846	<2.41		ug/L	2.41	7.23	09/24/2004
Hexachlorocyclopentadiene	445	846	<1.78		ug/L	1.78	5.34	09/24/2004
Hexachloroethane	445	846	<1.94		ug/L	1.94	5.82	09/24/2004
Indeno(1,2,3-cd)pyrene	445	846	<2.6		ug/L	2.6	7.8	09/24/2004
Isophorone	445	846	<2.37		ug/L	2.37	7.11	09/24/2004
2-Methylnapthalene	445	846	<2.23		ug/L	2.23	6.69	09/24/2004
Naphthalene	445	846	<2.68		ug/L	2.68	8.04	09/24/2004
2-Nitroaniline	445	846	<2.25		ug/L	2.25	6.75	09/24/2004

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3-Nitroaniline	445	846	<1.84		ug/L	1.84	5.52	09/24/2004
4-Nitroaniline	445	846	<1.36		ug/L	1.36	4.08	09/24/2004
Nitrobenzene	445	846	<2.04		ug/L	2.04	6.12	09/24/2004
N-Nitrosodimethylamine	445	846	<2.01		ug/L	2.01	6.03	09/24/2004
N-Nitrosodiphenylamine	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
N-Nitrosodi-n-propylamine	445	846	<2.44		ug/L	2.44	7.32	09/24/2004
N-Nitrosodi-n-butylamine	445	846	<2.76		ug/L	2.76	8.28	09/24/2004
N-Nitrosodiethylamine	445	846	<1.71		ug/L	1.71	5.13	09/24/2004
Phenanthrene	445	846	<2.56		ug/L	2.56	7.68	09/24/2004
N-Nitrosopyrrolidine	445	846	<2.55		ug/L	2.55	7.65	09/24/2004
Pentachlorobenzene	445	846	<1.51		ug/L	1.51	4.53	09/24/2004
Pyrene	445	846	<2.8		ug/L	2.8	8.4	09/24/2004
Pyridine	445	846	<1.36		ug/L	1.36	4.08	09/24/2004
1,2,4,5-Tetrachlorobenzene	445	846	<2.46		ug/L	2.46	7.38	09/24/2004
1,2,4-Trichlorobenzene	445	846	<2.33		ug/L	2.33	6.99	09/24/2004
Nitrobenzene-d5 (surr)	445	846	88.0		%	100	100	09/24/2004
2-Fluorobiphenyl (surr)	445	846	75.0		%	100	100	09/24/2004
Terphenyl-d14 (surr)	445	846	102.0		%	100	100	09/24/2004
Benzoic Acid	445	846	<10.0		ug/L	10.0	30.0	09/24/2004
4-Chloro-3-methylphenol	445	846	<2.7		ug/L	2.7	8.1	09/24/2004
2-chlorophenol	445	846	<2.48		ug/L	2.48	7.44	09/24/2004
Cresols, Total	445	846	<4.42		ug/L	4.42	13.3	09/24/2004
2,4-Dichlorophenol	445	846	<2.66		ug/L	2.66	7.98	09/24/2004
2,4-Dimethylphenol	445	846	<1.49		ug/L	1.49	4.47	09/24/2004
2,4-Dinitrophenol	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
2-Methyl-4,6-dinitrophenol	445	846	<2.98		ug/L	2.98	8.94	09/24/2004
2-Nitrophenol	445	846	<2.76		ug/L	2.76	8.28	09/24/2004
4-Nitrophenol	445	846	<1.8		ug/L	1.8	5.4	09/24/2004
2,5-Dinitrophenol	445	846	<4.21		ug/L	4.21	12.6	09/24/2004
Pentachlorophenol	445	846	<2.78		ug/L	2.78	8.34	09/24/2004
Phenol	445	846	<1.72		ug/L	1.72	5.16	09/24/2004
2,4,5-Trichlorophenol	445	846	<3.22		ug/L	3.22	9.66	09/24/2004
2,4,6-Trichlorophenol	445	846	<3.66		ug/L	3.66	11.0	09/24/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Phenol-d6 (surr)	445	846	34.0		%	100	100	09/24/2004
2-Fluorophenol (surr)	445	846	55.0		%	100	100	09/24/2004
Tribromophenol (surr)	445	846	100.0		%	100	100	09/24/2004
PCB's Non-Aqueous								
PCB-1016	834	1901	<0.25		mg/kg	0.15	0.25	10/01/2004
PCB-1221	834	1901	<0.25		mg/kg	0.19	0.25	10/01/2004
PCB-1232	834	1901	<0.25		mg/kg	0.029	0.25	10/01/2004
PCB-1242	834	1901	<0.25		mg/kg	0.049	0.25	10/01/2004
PCB-1248	834	1901	<0.25		mg/kg	0.019	0.25	10/01/2004
PCB-1254	834	1901	<0.25		mg/kg	0.025	0.25	10/01/2004
PCB-1260	834	1901	<0.25		mg/kg	0.14	0.25	10/01/2004
PCB-1268	834	1901	<0.25		mg/kg	0.063	0.25	10/01/2004
Decachlorobiphenyl (Surr.)	834	1901	74		%	1	1	10/01/2004
Tetrachlorometaxylene (Surr.)	834	1901	70		%	1	1	10/01/2004
PCBs Wisconsin Aqueous								
PCB 1016	235	649	<0.10		ug/L	0.10	0.30	09/28/2004
PCB-1242	235	649	<0.085		ug/L	0.085	0.26	09/28/2004
PCB-1221	235	649	<0.49		ug/L	0.49	1.5	09/28/2004
PCB-1232	235	649	<0.027		ug/L	0.027	0.081	09/28/2004
PCB-1248	235	649	<0.065		ug/L	0.065	0.20	09/28/2004
PCB-1254	235	649	<0.098		ug/L	0.098	0.29	09/28/2004
PCB-1260	235	649	<0.091		ug/L	0.091	0.27	09/28/2004
PCB-1268	235	649	<1.0		ug/L	1.0	1.0	09/28/2004
Decachlorobiphenyl (Surr.)	235	649	39		%			09/28/2004
Tetrachlorometaxylene (Surr.)	235	649	68		%			09/28/2004
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	2699	4714	<380		ug/L	380	380	10/01/2004
Diesel	2699	4714	<380		ug/L	85	380	10/01/2004
Gasoline	2699	4714	<380		ug/L	129	380	10/01/2004
Motor Oil	2699	4714	<380		ug/L	84	380	10/01/2004
N-Octacosane (Surr.)	2699	4714	120		%	100	100	10/01/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3188	5437	<10		mg/kg	10	10	10/02/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

TestAmerica Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Diesel	3188	5437	<10		mg/kg	6.7	10	10/02/2004
Gasoline	3188	5437	<10		mg/kg	5.7	10	10/02/2004
Motor Oil	3188	5437	<10		mg/kg	7.1	10	10/02/2004
N-Octacosane (Surr.)	3188	5437	51		%	1.0	1.0	10/02/2004
VOLATILES - BTEX (WATER)								
Benzene		11067	<2.0		ug/L	0.06	2.0	09/23/2004
Toluene		11067	<2.0		ug/L	0.079	2.0	09/23/2004
Ethylbenzene		11067	<2.0		ug/L	0.233	2.0	09/23/2004
Xylenes, Total		11067	<3.0		ug/L	0.311	3.0	09/23/2004
4-Bromofluorobenzene (surr.)		11067	92.3		%	1	1	09/23/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	<0.25		mg/kg	0.197	0.25	09/23/2004
Toluene		5822	<0.5		mg/kg	0.212	0.5	09/23/2004
Ethylbenzene		5822	<0.5		mg/kg	0.224	0.5	09/23/2004
Xylenes, Total		5822	<0.5		mg/kg	0.216	0.5	09/23/2004
4-Bromofluorobenzene (surr.)		5822	86.0		%	1	1	09/23/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Arsenic, (GFAA) mdl	913	633	0.0400	mg/L	0.04007	100		09/27/2004
Mercury, mdl		2064	0.154	mg/kg	0.132	86	B	09/23/2004
Barium, (ICP) mdl	1507	2805	1.0	mg/L	0.9521	95		09/21/2004
Barium, (ICP) mdl	1507	2805	1.00	mg/L	0.9521	95		09/21/2004
Cadmium, (ICP) mdl	1507	2811	1.0	mg/L	0.9440	94		09/21/2004
Cadmium, (ICP) mdl	1507	2811	1.00	mg/L	0.9440	94		09/21/2004
Chromium, (ICP) mdl	1507	2810	1.0	mg/L	0.9657	97		09/21/2004
Chromium, (ICP) mdl	1507	2810	1.00	mg/L	0.9657	97		09/21/2004
Lead, (ICP) mdl	1507	2827	2.0	mg/L	1.89	94		09/21/2004
Selenium, (ICP) mdl	1507	2804	4.0	mg/L	3.84	96		09/21/2004
Silver, (ICP) mdl	1507	639	1.00	mg/L	0.9628	96		09/21/2004
VOLATILE COMPOUNDS								
Benzene		5729	20.0	ug/L	20.8	104		09/23/2004
Chlorobenzene		5729	20.0	ug/L	18.7	94		09/23/2004
1,1-Dichloroethene		5729	20.0	ug/L	23.9	120		09/23/2004
Ethylbenzene		5729	20.0	ug/L	18.8	94		09/23/2004
MTBE		5729	20.0	ug/L	21.7	108		09/23/2004
1,2,4-Trimethylbenzene		5729	20.0	ug/L	17.4	87		09/23/2004
Toluene		5729	20.0	ug/L	18.8	94		09/23/2004
1,3,5-Trimethylbenzene		5729	20.0	ug/L	17.8	89		09/23/2004
Trichloroethylene		5729	20.0	ug/L	20.4	102		09/23/2004
Xylenes, Total		5729	60.0	ug/L	57.0	95		09/23/2004
Dibromofluoromethane (surr)		5729	100	%	105.0	105		09/23/2004
Toluene-d8 (surr)		5729	100	%	94.0	94		09/23/2004
4-Bromofluorobenzene (surr)		5729	100	%	96.0	96		09/23/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1045	28.79	ug/kg	31.1	108		09/21/2004
Bromoform		1045	28.79	ug/kg	27.0	94		09/21/2004
Chlorobenzene		1045	28.79	ug/kg	28.7	100		09/21/2004
1,1-Dichloroethane		1045	28.79	ug/kg	32.4	112		09/21/2004
1,1-Dichloroethene		1045	28.79	ug/kg	32.2	112		09/21/2004
Ethylbenzene		1045	28.79	ug/kg	29.2	101		09/21/2004
MTBE		1045	28.79	ug/kg	34.4	120		09/21/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0	101		09/21/2004
Toluene		1045	28.79	ug/kg	29.5	102		09/21/2004
Trichloroethylene		1045	28.79	ug/kg	27.9	97		09/21/2004
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4	95		09/21/2004
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6	99		09/21/2004
Vinyl Chloride		1045	28.79	ug/kg	31.1	108		09/21/2004
Xylenes, Total		1045	86.38	ug/kg	87.2	101		09/21/2004
4-Bromofluorobenzene (surr)		1045	100	%	102	102		09/21/2004
Dibromofluoromethane (surr)		1045	100	%	99	99		09/21/2004
Toluene-d8 (surr)		1045	100	%	100	100		09/21/2004
BNA Soil 8270 MDL								
Acenaphthene	110	176	3.33	mg/kg	4.13	124	L	09/20/2004
1,4-Dichlorobenzene	110	176	3.33	mg/kg	3.17	95		09/20/2004
2,4-Dinitrotoluene	110	176	3.33	mg/kg	4.34	130	L	09/20/2004
N-Nitrosodi-n-propylamine	110	176	3.33	mg/kg	3.42	103		09/20/2004
Pyrene	110	176	3.33	mg/kg	4.24	127	L	09/20/2004
1,2,4-Trichlorobenzene	110	176	3.33	mg/kg	3.30	99	L	09/20/2004
Nitrobenzene-d5 (surr)	110	176	100	%	106.0	106		09/20/2004
2-Fluorobiphenyl (surr)	110	176	100	%	115.0	115	L, OOC	09/20/2004
Terphenyl-d14 (surr)	110	176	100	%	140.0	140	L, OOC	09/20/2004
4-Chloro-3-methylphenol	110	176	3.33	mg/kg	4.14	124	L	09/20/2004
2-chlorophenol	110	176	3.33	mg/kg	3.13	94		09/20/2004
4-Nitrophenol	110	176	3.33	mg/kg	4.21	126		09/20/2004
Pentachlorophenol	110	176	3.33	mg/kg	0.53	16	L	09/20/2004
Phenol	110	176	3.33	mg/kg	3.21	96		09/20/2004
Phenol-d6 (surr)	110	176	100	%	97.0	97		09/20/2004
2-Fluorophenol (surr)	110	176	100	%	91.0	91		09/20/2004
Tribromophenol (surr)	110	176	100	%	146.0	146		09/20/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	445	846	100.0	ug/L	88.2	88		09/24/2004
1,4-Dichlorobenzene	445	846	100.0	ug/L	59.4	59		09/24/2004
2,4-Dinitrotoluene	445	846	100.0	ug/L	89.2	89		09/24/2004
N-Nitrosodi-n-propylamine	445	846	100.0	ug/L	74.2	74		09/24/2004

L - LCS recovery is outside of control limits.
OOC - Surrogate recovery outside QC limits

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Pyrene	445	846	100.0	ug/L	103	103		09/24/2004
1,2,4-Trichlorobenzene	445	846	100.0	ug/L	57.7	58		09/24/2004
Nitrobenzene-d5 (surr)	445	846	100	%	82.0	82		09/24/2004
2-Fluorobiphenyl (surr)	445	846	100	%	70.0	70		09/24/2004
Terphenyl-d14 (surr)	445	846	100	%	96.0	96		09/24/2004
4-Chloro-3-methylphenol	445	846	100.0	ug/L	87.9	88		09/24/2004
2-chlorophenol	445	846	100.0	ug/L	84.1	84		09/24/2004
4-Nitrophenol	445	846	100.0	ug/L	49.1	49		09/24/2004
Pentachlorophenol	445	846	100.0	ug/L	101	101		09/24/2004
Phenol	445	846	100.0	ug/L	38.5	38		09/24/2004
Phenol-d6 (surr)	445	846	100	%	36.0	36		09/24/2004
2-Fluorophenol (surr)	445	846	100	%	56.0	56		09/24/2004
Tribromophenol (surr)	445	846	100	%	92.0	92		09/24/2004
PCB's Non-Aqueous								
PCB-1221	834	1902	0.17	mg/kg	0.14	82		10/02/2004
Decachlorobiphenyl (Surr.)	834	1902	100	%	90	90		10/02/2004
Tetrachlorometaxylene (Surr.)	834	1902	100	%	78	78		10/02/2004
PCBs Wisconsin Aqueous								
PCB-1221	235	649	5.0	ug/L	3.0	60		09/28/2004
Decachlorobiphenyl (Surr.)	235	649	100	%	43	43		09/28/2004
Tetrachlorometaxylene (Surr.)	235	649	100	%	66	66		09/28/2004
EXTRACTABLE HYDROCARBONS-WATER								
Gasoline	2699	4714	2,000	ug/L	1,750	88		10/01/2004
N-Octacosane (Surr.)	2699	4714	100	%	111	111		10/01/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3188	5438	66.7	mg/kg	57.8	87		10/03/2004
N-Octacosane (Surr.)	3188	5438	100	%	95	95		10/03/2004
VOLATILES - BTEX (WATER)								
Benzene		11067	100	ug/L	70.0	70		09/23/2004
Toluene		11067	100.	ug/L	91.1	91		09/23/2004
Ethylbenzene		11067	100.	ug/L	107	107		09/23/2004
Xylenes, Total		11067	200	ug/L	205	102		09/23/2004
4-Bromofluorobenzene (surr.)		11067	100.0	%	94.3	94		09/23/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	12.4	mg/kg	15.1	122		09/23/2004
Toluene		5822	12.4	mg/kg	15.2	123		09/23/2004
Ethylbenzene		5822	12.4	mg/kg	15.1	122		09/23/2004
Xylenes, Total		5822	24.8	mg/kg	30.1	121		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	87.7	88		09/23/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job Number: 04.12941

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2762	92.52	92.64	%	0.1		09/17/2004	20
Solids, Total		2762	98.07	97.95	%	0.1		09/17/2004	20
Solids, Total		2763	95.22	95.26	%	0.0		09/17/2004	20
Solids, Total		2763	14.09	13.82	%	1.9		09/17/2004	20
Solids, Total		2763	14.09	13.82	%	1.9		09/17/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12941

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike		Percent Recovery	MS/MSD RPD
									Amount	Units		
Arsenic, (GFAA) mdl	913	633	4.59	1.7	3.86	mg/kg dw	75.3	4.39	4.13			
Mercury, mdl		2064	0.155	0.066	0.129	mg/kg dw	69.4	0.199	0.167	mg/kg dw	65.6	4.4
ICP Metals-Solid mdl										mg/kg dw	79.9	24.8
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1507	2805	128	57.0	104	mg/kg dw	68.5	122	99.6	mg/kg dw	65.1	5.0
Cadmium, (ICP) mdl	1507	2811	98.4	2.36	104	mg/kg dw	92.6	94.2	99.6	mg/kg dw	92.2	4.4
Chromium, (ICP) mdl	1507	2810	112	9.00	104	mg/kg dw	99.6	106	99.6	mg/kg dw	97.5	5.8
Lead, (ICP) mdl	1507	2827	207	16.8	208	mg/kg dw	91.4	197	200	mg/kg dw	90.5	4.7
Selenium, (ICP) mdl	1507	2804	399	<7.9	415	mg/kg dw	96.2	381	398	mg/kg dw	95.8	4.6
Silver, (ICP) mdl	1507	639	47.5	<0.60	50.0	mg/kg dw	95.0		1.000	mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5729	21	<0.25	20	ug/L	105.0	17.7	20.0	ug/L	88.5	17.1
Chlorobenzene		5729	20	<0.25	20	ug/L	100.0	17.4	20.0	ug/L	87.0	13.9
1,1-Dichloroethene		5729	20	<0.25	20	ug/L	100.0	18.3	20.0	ug/L	91.5	8.9
Ethylbenzene		5729	17.2	<0.43	20.0	ug/L	86.0	14.4	20.0	ug/L	72.0	17.7
1,2,4-Trimethylbenzene		5729	8.5	<0.25	20.0	ug/L	42.5	7.2	20.0	ug/L	36.0	11.1
Toluene		5729	18	<0.25	20	ug/L	90.0	15.5	20.0	ug/L	77.5	19.5
1,3,5-Trimethylbenzene		5729	8.3	<0.14	20.0	ug/L	41.5	7.1	20.0	ug/L	35.5	15.6
Trichloroethylene		5729	18.6	<0.43	20.0	ug/L	93.0	16.0	20.0	ug/L	80.0	15.0
BNA Soil 8270 MDL												
Phenol	110	178	18	<0.38	16.4	mg/kg	109.8	18	16.5	mg/kg	109.1	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12941

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Spike		
BNA Soil 8270 MDL												
Acenaphthene	110	178	2.8	<0.35	17.9	mg/kg dw	15.8	3.0	18.0	mg/kg dw	16.9	7.4
1,4-Dichlorobenzene	110	178	2.7	<0.46	17.9	mg/kg dw	15.2	2.8	18.0	mg/kg dw	15.7	3.9
2,4-Dinitrotoluene	110	178	2.5	<0.26	17.9	mg/kg dw	13.9	2.6	18.0	mg/kg dw	14.5	4.3
N-Nitrosodi-n-propylamine	110	178	2.7	<0.46	17.9	mg/kg dw	15.2	2.5	18.0	mg/kg dw	13.9	8.3
Pyrene	110	178	3.0	0.4	17.9	mg/kg dw	14.5	3.5	18.0	mg/kg dw	16.9	13.3
1,2,4-Trichlorobenzene	110	178	2.7	<0.39	17.9	mg/kg dw	15.2	2.8	18.0	mg/kg dw	15.7	3.9
4-Chloro-3-methylphenol	110	178	2.3	<0.39	17.9	mg/kg dw	12.7	2.4	18.0	mg/kg dw	13.3	4.7
2-chlorophenol	110	178	2.6	<0.47	17.9	mg/kg dw	14.5	2.6	18.0	mg/kg dw	14.5	0.0
4-Nitrophenol	110	178	2.0	<0.36	17.9	mg/kg dw	10.9	1.8	18.0	mg/kg dw	10.2	5.7
Pentachlorophenol	110	178	1.1	<0.41	17.9	mg/kg dw	6.1	1	18.0	mg/kg dw	5.4	10.5
Phenol	110	178	2.2	<0.41	17.9	mg/kg dw	12.1	2.2	18.0	mg/kg dw	12.0	0.0
BNA - 8270 AQUEOUS WI												
Acenaphthene	445	848	171	<30	109	ug/L	157	155	109	ug/L	143	9.8
1,4-Dichlorobenzene	445	848	129	<22	109	ug/L	119	114	109	ug/L	105	12.3
2,4-Dinitrotoluene	445	848	150	<28.2	109	ug/L	138	127	109	ug/L	117	16.6
N-Nitrosodi-n-propylamine	445	848	147	<26.5	109	ug/L	135	141	109	ug/L	130	4.2
Pyrene	445	848	180	<30	109	ug/L	166	152	109	ug/L	140	16.9
1,2,4-Trichlorobenzene	445	848	126	<25.2	109	ug/L	116	114	109	ug/L	105	10.0
4-Chloro-3-methylphenol	445	848	178	<30	109	ug/L	164	154	109	ug/L	142	14.5
2-chlorophenol	445	848	150	<26.9	109	ug/L	138	145	109	ug/L	133	3.4
4-Nitrophenol	445	848	95	<20	109	ug/L	87	72	109	ug/L	63	27.5
Pentachlorophenol	445	848	97	<30.2	109	ug/L	89	82	109	ug/L	75	16.8
Phenol	445	848	73	<18.7	109	ug/L	67	67	109	ug/L	62	8.6
PCB's Non-Aqueous												
PCB-1221	834	1902	<0.19	<0.28	0.18	mg/kg dw	68.8	<0.19	0.18	mg/kg dw	68.8	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Cindy Quast

Job Number: 04.12941

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike Amount	Units	Percent Recovery	MS/MSD RPD
EXTRACTABLE HYDROCARBONS-SOIL												
Diesel	3188	5438	NA	<10	1.0	mg/kg		NA	1.0	mg/kg		
Gasoline	3188	5438	53.5	<10	65.5	mg/kg	81.7	53.0	65.8	mg/kg	80.5	0.9
Motor Oil	3188	5438	NA	<10	0.0	mg/kg	0	NA	1.0	mg/kg		
VOLATILES - BTEX (WATER)												
Benzene		11067	70.1	<2.0	100.	ug/L	70.1	70.0	100.	ug/L	70.0	0.1
Toluene		11067	92.1	<2.0	100.	ug/L	92.1	92.1	100.	ug/L	92.1	0.0
Ethylbenzene		11067	108	<2.0	100.	ug/L	108.0	107	100.	ug/L	107.0	0.9
Xylenes, Total		11067	206	<3.0	200.	ug/L	103.0	206	200	ug/L	103.0	0.0
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5822	13.4	<0.25	12.5	mg/kg	107.2	10.1	12.2	mg/kg	82.8	28.1
Toluene		5822	13.7	<0.5	12.5	mg/kg	109.6	10.3	12.2	mg/kg	84.4	28.3
Ethylbenzene		5822	13.8	<0.5	12.5	mg/kg	110.4	10.4	12.2	mg/kg	85.2	28.1
Xylenes, Total		5822	27.4	<0.5	25.0	mg/kg	109.6	20.6	24.4	mg/kg	84.4	28.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/05/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.12941

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
Arsenic, (GFAA) mdl	913	633	0.0400	mg/L	0.04007		100.2		80 - 120		20
Mercury, mdl		2064	0.154	mg/kg	0.132		85.7		80 - 115		20
Barium, (ICP) mdl	1507	2805	1.0	mg/L	0.9521		95.2		90 - 110		20
Barium, (ICP) mdl	1507	2805	1.00	mg/L	0.9521		95.2		90 - 110		20
Cadmium, (ICP) mdl	1507	2811	1.0	mg/L	0.9440		94.4		90 - 110		20
Cadmium, (ICP) mdl	1507	2811	1.00	mg/L	0.9440		94.4		90 - 110		20
Chromium, (ICP) mdl	1507	2810	1.0	mg/L	0.9657		96.6		90 - 110		20
Chromium, (ICP) mdl	1507	2810	1.00	mg/L	0.9657		96.6		90 - 110		20
Lead, (ICP) mdl	1507	2827	2.0	mg/L	1.89		94.5		85 - 110		20
Selenium, (ICP) mdl	1507	2804	4.0	mg/L	3.84		96.0		90 - 110		20
Silver, (ICP) mdl	1507	639	1.00	mg/L	0.9628		96.3		80 - 120		
VOLATILE COMPOUNDS											
Benzene		5729	20.0	ug/L	20.8		104.0		81 - 124		27
Chlorobenzene		5729	20.0	ug/L	18.7		93.5		77 - 125		28
1,1-Dichloroethene		5729	20.0	ug/L	23.9		119.5		53 - 143		28
Ethylbenzene		5729	20.0	ug/L	18.8		94.0		65 - 140		24
1,2,4-Trimethylbenzene		5729	20.0	ug/L	21.7		108.5		70 - 133		26
Toluene		5729	20.0	ug/L	17.4		87.0		59 - 145		23
1,3,5-Trimethylbenzene		5729	20.0	ug/L	18.8		94.0		73 - 127		21
Trichloroethylene		5729	20.0	ug/L	17.8		89.0		63 - 141		24
Xylenes, Total		5729	60.0	ug/L	57.0		95.0		75 - 130		20
Dibromofluoromethane (surr)		5729	100	%	105.0		105.0		85 - 118		50
Toluene-d8 (surr)		5729	100	%	94.0		94.0		76 - 120		50
4-Bromofluorobenzene (surr)		5729	100	%	96.0		96.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1045	28.79	ug/kg	31.1		108.0		68 - 158		20
Bromoform		1045	28.79	ug/kg	27.0		93.8		61 - 151		20
Chlorobenzene		1045	28.79	ug/kg	28.7		99.7		65 - 155		20
1,1-Dichloroethane		1045	28.79	ug/kg	32.4		112.5		64 - 154		20
1,1-Dichloroethene		1045	28.79	ug/kg	32.2		111.8		55 - 148		20
Ethylbenzene		1045	28.79	ug/kg	29.2		101.4		69 - 159		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job No: 04.12941

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
MTBE		1045	28.79	ug/kg	34.4		119.5		71 - 161		20
1,1,2,2-Tetrachloroethane		1045	28.79	ug/kg	29.0		100.7		63 - 153		20
Toluene		1045	28.79	ug/kg	29.5		102.5		68 - 158		20
Trichloroethylene		1045	28.79	ug/kg	27.9		96.9		61 - 151		20
1,2,4-Trimethylbenzene		1045	28.79	ug/kg	27.4		95.2		68 - 158		20
1,3,5-Trimethylbenzene		1045	28.79	ug/kg	28.6		99.3		66 - 156		20
Vinyl Chloride		1045	28.79	ug/kg	31.1		108.0		47 - 137		20
Xylenes, Total		1045	86.38	ug/kg	87.2		100.9		69 - 159		20
4-Bromofluorobenzene (surr)		1045	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1045	100	%	99		99.0		56 - 146		20
Toluene-d8 (surr)		1045	100	%	100		100.0		52 - 142		
BNA Soil 8270 MDL											
Acenaphthene	110	176	3.33	mg/kg	4.13		124.0		69 - 108		35
1,4-Dichlorobenzene	110	176	3.33	mg/kg	3.17		95.2		49 - 96		35
2,4-Dinitrotoluene	110	176	3.33	mg/kg	4.34		130.3		68 - 129		35
N-Nitrosodi-n-propylamine	110	176	3.33	mg/kg	3.42		102.7		53 - 105		35
Pyrene	110	176	3.33	mg/kg	4.24		127.3		68 - 117		35
1,2,4-Trichlorobenzene	110	176	3.33	mg/kg	3.30		99.1		51 - 98		35
Nitrobenzene-d5 (surr)	110	176	100	%	106.0		106.0		56 - 113		
2-Fluorobiphenyl (surr)	110	176	100	%	115.0		115.0		67 - 107		
Terphenyl-d14 (surr)	110	176	100	%	140.0		140.0		66 - 115		
4-Chloro-3-methylphenol	110	176	3.33	mg/kg	4.14		124.3		67 - 115		35
2-chlorophenol	110	176	3.33	mg/kg	3.13		94.0		51 - 94		35
4-Nitrophenol	110	176	3.33	mg/kg	4.21		126.4		63 - 140		35
Pentachlorophenol	110	176	3.33	mg/kg	0.53		15.9		49 - 139		35
Phenol	110	176	3.33	mg/kg	3.21		96.4		50 - 98		35
Phenol-d6 (surr)	110	176	100	%	97.0		97.0		55 - 106		
2-Fluorophenol (surr)	110	176	100	%	91.0		91.0		52 - 96		
Tribromophenol (surr)	110	176	100	%	146.0		146.0		66 - 149		
BNA - 8270 AQUEOUS WI											
Acenaphthene	445	846	100.0	ug/L	88.2		88.2		42 - 127		20
1,4-Dichlorobenzene	445	846	100.0	ug/L	59.4		59.4		30 - 101		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/05/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.12941

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
2,4-Dinitrotoluene	445	846	100.0	ug/L	89.2		89.2		51 - 141		20
N-Nitrosodi-n-propylamine	445	846	100.0	ug/L	74.2		74.2		39 - 119		20
Pyrene	445	846	100.0	ug/L	103		103.0		44 - 130		20
1,2,4-Trichlorobenzene	445	846	100.0	ug/L	57.7		57.7		35 - 105		20
Nitrobenzene-d5 (surr)	445	846	100	%	82.0		82.0		37 - 127		20
2-Fluorobiphenyl (surr)	445	846	100	%	70.0		70.0		40 - 114		20
Terphenyl-d14 (surr)	445	846	100	%	96.0		96.0		38 - 116		20
4-Chloro-3-methylphenol	445	846	100.0	ug/L	87.9		87.9		41 - 127		20
2-chlorophenol	445	846	100.0	ug/L	84.1		84.1		35 - 107		20
4-Nitrophenol	445	846	100.0	ug/L	49.1		49.1		15 - 66		20
Pentachlorophenol	445	846	100.0	ug/L	101		101.0		19 - 109		20
Phenol	445	846	100.0	ug/L	38.5		38.5		0 - 90		20
Phenol-d6 (surr)	445	846	100	%	36.0		36.0		28 - 109		20
2-Fluorophenol (surr)	445	846	100	%	56.0		56.0		30 - 140		20
Tribromophenol (surr)	445	846	100	%	92.0		92.0		44 - 134		20
PCB's Non-Aqueous											
PCB-1221	834	1902	0.17	mg/kg	0.14		82.4		70 - 130		20
Chlorobiphenyl (Surr.)	834	1902	100	%	90		90.0		63 - 131		35
Tetrachlorometaxylene (Sur	834	1902	100	%	78		78.0		35 - 125		
PCBs Wisconsin Aqueous											
PCB-1221	235	649	5.0	ug/L	3.0	3.0	60.0	60.0	15 - 178	0.0	20
Decachlorobiphenyl (Surr.)	235	649	100	%	43	33	43.0	33.0	37 - 134	26.3	
Tetrachlorometaxylene (Sur	235	649	100	%	66	60	66.0	60.0	37 - 115	9.5	
EXTRACTABLE HYDROCARBONS-W											
Gasoline	2699	4714	2,000	ug/L	1,750	1,540	87.5	77.0	40 - 96	12.8	
N-Octacosane (Surr.)	2699	4714	100	%	111	100	111.0	100.0	41 - 151	10.4	20
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3188	5438	66.7	mg/kg	57.8		86.7		42 - 132		20
N-Octacosane (Surr.)	3188	5438	100	%	95		95.0		44 - 134		20
VOLATILES - BTEX (WATER)											
Benzene		11067	100	ug/L	70.0		70.0		47 - 114		20
Toluene		11067	100.	ug/L	91.1		91.1		69 - 113		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/05/2004

Job No: 04.12941

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Ethylbenzene		11067	100.	ug/L	107		107.0		74 - 121		20
Xylenes, Total		11067	200	ug/L	205		102.5		72 - 114		20
4-Bromofluorobenzene (surr VOLATILES - BTEX (NONAQUEO		11067	100.0	%	94.3		94.3		78 - 124		20
Benzene		5822	12.4	mg/kg	15.1		121.8		78 - 151		20
Toluene		5822	12.4	mg/kg	15.2		122.6		79 - 151		20
Ethylbenzene		5822	12.4	mg/kg	15.1		121.8		79 - 157		20
Xylenes, Total		5822	24.8	mg/kg	30.1		121.4		76 - 149		20
4-Bromofluorobenzene (surr		5822	100.	%	87.7		87.7		78 - 124		20

TestAmerica Job Number: 04.12941

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: _____

City: CEDAR RAPIDS

Date: 9-16-04 Receiver's Initials: WJH Time (Delivered): 20:45

Temperature Record

Cooler ID# (If Applicable)

2 °C (On Ice)

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | |
| <input type="checkbox"/> US Postal | <input type="checkbox"/> Other |

Exceptions Noted

- Sample(s) not received in a cooler.
 Samples(s) received same day of sampling.
 Temperature not taken:

Log-In by:

JP MF EM

OT _____

Client Name: HOWARD R. GREEN Client #: _____
 Address: 870 EMMETT LANE SW
 City/State/Zip Code: CEDAR RAPIDS, IA 52409
 Project Manager: CINDY QUAST
 Telephone Number: (319) 841-4424 Fax: (319) 841-4012
 Sampler Name: (Print Name) JON RYK
 Sampler Signature: [Signature]
 Email Address: ryk@hr.green.com

Project Name: CHAMBERLAIN
 Project #: F22 930 J23
 Site/Location ID: WATER LOC State: IA
 Report To: CINDY QUAST
 Invoice To: HRE
 Quote #: _____ PO#: _____

TAT <input type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	Email Results: Y N	SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	QC Deliverables	REMARKS									
										HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	40 ml vial	None				Other (Specify)	CYANIDE	PCPA & METALS	PCBs	SPEC'S (BNA'S)	VOCS	OA-1	OA-2	None
				TB-11	9/12/04	07:00	G		DW																			
				MW-5	9/15/04	08:45	G		GW																			
				SB-60 2'		9:45	G		S																			
				SB-60 4'		10:50	G		S																			
				SB-41 2'		14:30	G		S																			
				SB-86 2'		14:50	G		S																			
				SB-70 2'		15:05	G		S																			
				SB-70 6'		16:30	G		S																			
				SB-32 2'		16:50	G		S																			

Special Instructions: NO TAX ACCOUNT # 15404
NEED RESULTS TO COMPARE TO IOWA LRP
STATEWIDE STANDARDS

LABORATORY COMMENTS:

Relinquished By: [Signature] Date: 9/16/04 Time: 20:45 Received By: [Signature] Date: 9-16 Time: 20:25

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job: 04.13038

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
825186	TB-12	09/17/2004	09/17/2004
825187	SB-56 14'	09/17/2004	09/17/2004
825188	SB-64 10'	09/17/2004	09/17/2004
825189	SB-71 2'	09/17/2004	09/17/2004
825190	MW-3	09/17/2004	09/17/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert
Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825186	TB-12					09/17/2004 07:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/23/2004	dmd		5738	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5738	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/23/2004	dmd		5738	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5738	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Chloroethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd		5738	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/23/2004	dmd		5738	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/23/2004	dmd		5738	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/23/2004	dmd		5738	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/23/2004	dmd		5738	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/23/2004	dmd		5738	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/23/2004	dmd		5738	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/23/2004	dmd		5738	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/23/2004	dmd		5738	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825186	TB-12					09/17/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/23/2004	dmd		5738	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/23/2004	dmd		5738	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
1,2-Dichloropropane	<0.12	B	ug/L	0.12	0.36	09/23/2004	dmd		5738	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/23/2004	dmd		5738	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
Hexachlorobutadiene	0.39	B	ug/L	0.22	0.66	09/23/2004	dmd		5738	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/23/2004	dmd		5738	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/23/2004	dmd		5738	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/23/2004	dmd		5738	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/23/2004	dmd		5738	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/23/2004	dmd		5738	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd		5738	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,2,3-Trichlorobenzene	0.58	B	ug/L	0.40	1.2	09/23/2004	dmd		5738	SW 8260B
1,2,4-Trichlorobenzene	0.26	B	ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825186	TB-12					09/17/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/23/2004	dmd		5738	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/23/2004	dmd		5738	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/23/2004	dmd		5738	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/23/2004	dmd		5738	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/23/2004	dmd		5738	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5738	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5738	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5738	SW 8260B
Dibromofluoromethane (surr)	105		%			09/23/2004	dmd		5738	SW 8260B
luene-d8 (surr)	92		%			09/23/2004	dmd		5738	SW 8260B
-Bromofluorobenzene (surr)	88		%			09/23/2004	dmd		5738	SW 8260B
VOA Preservation pH	<2		units	NA		09/24/2004	sjg		1054	SW 9041A

SAMPLE NO. 825187
SAMPLE DESCRIPTION SB-56 14'

DATE-TIME TAKEN 09/17/2004 08:30

Solids, Total	84.37		%	0.01	0.01	09/20/2004	sas		2765	SM 2540 G
Prep, BNA-Nonaqueous (MDL)	Complete					09/20/2004	acm	111		SW 3550
BNA Soil 8270 MDL										

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825187	SB-56 14'					09/17/2004 08:30				
Acenaphthene	<0.072		mg/kg dw	0.072	0.217	09/21/2004	ake	111	180	SW 8270C
Acenaphthylene	<0.068		mg/kg dw	0.068	0.204	09/21/2004	ake	111	180	SW 8270C
Anthracene	<0.045		mg/kg dw	0.045	0.134	09/21/2004	ake	111	180	SW 8270C
Benzidine	<0.11		mg/kg dw	0.11	0.338	09/21/2004	ake	111	180	SW 8270C
Benzo(a)anthracene	<0.040		mg/kg dw	0.040	0.121	09/21/2004	ake	111	180	SW 8270C
Benzo(b)fluoranthene	<0.043		mg/kg dw	0.043	0.128	09/21/2004	ake	111	180	SW 8270C
Benzo(k)fluoranthene	<0.057		mg/kg dw	0.057	0.169	09/21/2004	ake	111	180	SW 8270C
Benzo(a)pyrene	<0.057		mg/kg dw	0.057	0.169	09/21/2004	ake	111	180	SW 8270C
Benzo(ghi)perylene	<0.045		mg/kg dw	0.045	0.134	09/21/2004	ake	111	180	SW 8270C
Benzyl alcohol	<0.094		mg/kg dw	0.094	0.280	09/21/2004	ake	111	180	SW 8270C
Benzyl butyl phthalate	<0.050		mg/kg dw	0.050	0.148	09/21/2004	ake	111	180	SW 8270C
Bis(2-chloroethyl)ether	<0.090		mg/kg dw	0.090	0.269	09/21/2004	ake	111	180	SW 8270C
Bis(2-chloroethoxy)methane	<0.085		mg/kg dw	0.085	0.255	09/21/2004	ake	111	180	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.037		mg/kg dw	0.037	0.11	09/21/2004	ake	111	180	SW 8270C
Bis(2chloroisopropyl)ether	<0.098		mg/kg dw	0.098	0.296	09/21/2004	ake	111	180	SW 8270C
4-Bromophenyl phenyl ether	<0.056		mg/kg dw	0.056	0.166	09/21/2004	ake	111	180	SW 8270C
Carbazole	<0.045		mg/kg dw	0.045	0.134	09/21/2004	ake	111	180	SW 8270C
4-Chloroaniline	<0.120		mg/kg dw	0.120	0.359	09/21/2004	ake	111	180	SW 8270C
2-Chloronaphthalene	<0.081		mg/kg dw	0.081	0.24	09/21/2004	ake	111	180	SW 8270C
4-Chlorophenylphenyl ether	<0.063		mg/kg dw	0.063	0.190	09/21/2004	ake	111	180	SW 8270C
Chrysene	<0.034		mg/kg dw	0.034	0.10	09/21/2004	ake	111	180	SW 8270C
Dibenzo(a,h)anthracene	<0.089		mg/kg dw	0.089	0.265	09/21/2004	ake	111	180	SW 8270C
Dibenzofuran	<0.055		mg/kg dw	0.055	0.162	09/21/2004	ake	111	180	SW 8270C
Di-n-butylphthalate	<0.050		mg/kg dw	0.050	0.148	09/21/2004	ake	111	180	SW 8270C
1,2-Dichlorobenzene	<0.118		mg/kg dw	0.118	0.356	09/21/2004	ake	111	180	SW 8270C
1,3-Dichlorobenzene	<0.11		mg/kg dw	0.11	0.318	09/21/2004	ake	111	180	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825187	SB-56 14'					09/17/2004 08:30				
1,4-Dichlorobenzene	<0.097		mg/kg dw	0.097	0.293	09/21/2004	ake	111	180	SW 8270C
3,3-Dichlorobenzidine	<0.123		mg/kg dw	0.123	0.369	09/21/2004	ake	111	180	SW 8270C
Diethyl phthalate	<0.055		mg/kg dw	0.055	0.162	09/21/2004	ake	111	180	SW 8270C
Dimethyl phthalate	<0.049		mg/kg dw	0.049	0.145	09/21/2004	ake	111	180	SW 8270C
2,4-Dinitrotoluene	<0.055		mg/kg dw	0.055	0.162	09/21/2004	ake	111	180	SW 8270C
2,6-Dinitrotoluene	<0.076		mg/kg dw	0.076	0.228	09/21/2004	ake	111	180	SW 8270C
Di-n-octylphthalate	<0.069		mg/kg dw	0.069	0.20	09/21/2004	ake	111	180	SW 8270C
Fluoranthene	<0.041		mg/kg dw	0.041	0.124	09/21/2004	ake	111	180	SW 8270C
Fluorene	<0.060		mg/kg dw	0.060	0.183	09/21/2004	ake	111	180	SW 8270C
Hexachlorobenzene	<0.033		mg/kg dw	0.033	0.10	09/21/2004	ake	111	180	SW 8270C
Hexachlorocyclopentadiene	<0.066		mg/kg dw	0.066	0.200	09/21/2004	ake	111	180	SW 8270C
Hexachloro-1,3-butadiene	<0.077		mg/kg dw	0.077	0.231	09/21/2004	ake	111	180	SW 8270C
Hexachloroethane	<0.095		mg/kg dw	0.095	0.283	09/21/2004	ake	111	180	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.036		mg/kg dw	0.036	0.11	09/21/2004	ake	111	180	SW 8270C
Isophorone	<0.068		mg/kg dw	0.068	0.204	09/21/2004	ake	111	180	SW 8270C
2-Methylnaphthalene	<0.073		mg/kg dw	0.073	0.220	09/21/2004	ake	111	180	SW 8270C
Naphthalene	<0.084		mg/kg dw	0.084	0.251	09/21/2004	ake	111	180	SW 8270C
2-Nitroaniline	<0.081		mg/kg dw	0.081	0.24	09/21/2004	ake	111	180	SW 8270C
3-Nitroaniline	<0.068		mg/kg dw	0.068	0.204	09/21/2004	ake	111	180	SW 8270C
4-Nitroaniline	<0.079		mg/kg dw	0.079	0.238	09/21/2004	ake	111	180	SW 8270C
Nitrobenzene	<0.088		mg/kg dw	0.088	0.262	09/21/2004	ake	111	180	SW 8270C
N-Nitrosodimethylamine	<0.128		mg/kg dw	0.128	0.383	09/21/2004	ake	111	180	SW 8270C
N-Nitrosodiphenylamine	<0.039		mg/kg dw	0.039	0.117	09/21/2004	ake	111	180	SW 8270C
N-Nitrosodi-n-propylamine	<0.096		mg/kg dw	0.096	0.287	09/21/2004	ake	111	180	SW 8270C
Phenanthrene	<0.044		mg/kg dw	0.044	0.132	09/21/2004	ake	111	180	SW 8270C
Pyrene	<0.057		mg/kg dw	0.057	0.18	09/21/2004	ake	111	180	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825187	SB-56 14'					09/17/2004 08:30				
Pyridine	<0.129		mg/kg dw	0.129	0.386	09/21/2004	ake	111	180	SW 8270C
1,2,4-Trichlorobenzene	<0.084		mg/kg dw	0.084	0.251	09/21/2004	ake	111	180	SW 8270C
Nitrobenzene-d5 (surr)	67		%			09/21/2004	ake	111	180	SW 8270C
2-Fluorobiphenyl (surr)	53	OOC	%			09/21/2004	ake	111	180	SW 8270C
Terphenyl-d14 (surr)	95		%			09/21/2004	ake	111	180	SW 8270C
Benzoic Acid	<0.38		mg/kg dw	0.38	1.1	09/21/2004	ake	111	180	SW 8270C
4-Chloro-3-methylphenol	<0.083		mg/kg dw	0.083	0.249	09/21/2004	ake	111	180	SW 8270C
2-chlorophenol	<0.098		mg/kg dw	0.098	0.296	09/21/2004	ake	111	180	SW 8270C
2-Methylphenol	<0.090		mg/kg dw	0.090	0.269	09/21/2004	ake	111	180	SW 8270C
4-Methylphenol	<0.092		mg/kg dw	0.092	0.27	09/21/2004	ake	111	180	SW 8270C
Cresols, Total	<0.181		mg/kg dw	0.181	0.545	09/21/2004	ake	111	180	SW 8270C
2,4-Dichlorophenol	<0.085		mg/kg dw	0.085	0.255	09/21/2004	ake	111	180	SW 8270C
2,4-Dimethylphenol	<0.072		mg/kg dw	0.072	0.217	09/21/2004	ake	111	180	SW 8270C
2,4-Dinitrophenol	<0.032		mg/kg dw	0.032	0.096	09/21/2004	ake	111	180	SW 8270C
2-Methyl-4,6-dinitrophenol	<0.121		mg/kg dw	0.121	0.363	09/21/2004	ake	111	180	SW 8270C
2-Nitrophenol	<0.129		mg/kg dw	0.129	0.386	09/21/2004	ake	111	180	SW 8270C
4-Nitrophenol	<0.076		mg/kg dw	0.076	0.228	09/21/2004	ake	111	180	SW 8270C
Pentachlorophenol	<0.089	L	mg/kg dw	0.089	0.265	09/21/2004	ake	111	180	SW 8270C
Phenol	<0.089		mg/kg dw	0.089	0.265	09/21/2004	ake	111	180	SW 8270C
2,4,5-Trichlorophenol	<0.079		mg/kg dw	0.079	0.238	09/21/2004	ake	111	180	SW 8270C
2,4,6-Trichlorophenol	<0.062		mg/kg dw	0.062	0.186	09/21/2004	ake	111	180	SW 8270C
Phenol-d6 (surr)	64		%			09/21/2004	ake	111	180	SW 8270C
2-Fluorophenol (surr)	62		%			09/21/2004	ake	111	180	SW 8270C
Tribromophenol (surr)	87		%			09/21/2004	ake	111	180	SW 8270C

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825188	SB-64 10'					09/17/2004 13:55				
Extraction Prep, soil	COMPLETE					09/24/2004	acm	3193		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	32,500		mg/kg	500	500	10/07/2004	ljm	3193	5449	IA-OA2/S-8015
Diesel	9,300		mg/kg	6.7	10	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Gasoline	<30	mdl	mg/kg	5.7	10	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Motor Oil	23,200		mg/kg	360	500	10/07/2004	ljm	3193	5449	IA-OA2/S-8015
N-Octacosane (Surr.)	6,590	p	%	1.0	1.0	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1
lenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1
Bromofluorobenzene (surr.)	88.2		%	1	1	09/23/2004	ake		5822	IA-OA1

SAMPLE NO. 825189 **SAMPLE DESCRIPTION** SB-71 2'

DATE-TIME TAKEN 09/17/2004 14:45

Extraction Prep, soil	COMPLETE					09/24/2004	acm	3193		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	672		mg/kg	100	100	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Diesel	<45	mdl	mg/kg	67	100	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Gasoline	<30	mdl	mg/kg	57	100	10/06/2004	ljm	3193	5445	IA-OA2/S-8015

mdl - Results calculated/entered to the method detection limit.
 p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825189	SAMPLE DESCRIPTION SB-71 2'					DATE-TIME TAKEN 09/17/2004 14:45				
Motor Oil	672		mg/kg	71	100	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
N-Octacosane (Surr.)	335	p	%	1.0	1.0	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1
4-Bromofluorobenzene (surr.)	89.2		%	1	1	09/23/2004	ake		5822	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
825190	MW-3	09/17/2004 13:10
Dissolved ICP Metals	COMPLETE	09/27/2004 11w 1695
Barium, Diss (ICP) mdl	0.087	09/27/2004 11w 6407 SW 6010B
Chromium, Diss (ICP) mdl	<0.0026	09/27/2004 11w 6423 SW 6010B
Silver, Diss (ICP) mdl	<0.0038	09/27/2004 11w 6421 SW 6010B
Arsenic, Diss (GFAA) mdl	<0.00036	09/22/2004 heh 50 SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014	09/24/2004 heh 39 SW 7131A
Lead, Diss (GFAA) mdl	<0.00050	09/21/2004 heh 43 SW 7421
Mercury, diss mdl	0.042 B	09/23/2004 heh 799 EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015	09/23/2004 mrm 38 SW 7740
Prep BNA (MDL)	Complete	09/20/2004 acm 445 SW 3510

B - This analyte was detected in the method blank.
 p - Surrogate recovery limits not applicable. Oil interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825190	MW-3					09/17/2004 13:10				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/23/2004	dmd	5738	5738	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/23/2004	dmd	5738	5738	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/23/2004	dmd	5738	5738	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/23/2004	dmd	5738	5738	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd	5738	5738	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/23/2004	dmd	5738	5738	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/23/2004	dmd	5738	5738	SW 8260B
i-Butylbenzene	<0.16		ug/L	0.16	0.48	09/23/2004	dmd	5738	5738	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/23/2004	dmd	5738	5738	SW 8260B
Chloroform	0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Chloromethane	0.56		ug/L	0.24	0.72	09/23/2004	dmd	5738	5738	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/23/2004	dmd	5738	5738	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/23/2004	dmd	5738	5738	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/23/2004	dmd	5738	5738	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd	5738	5738	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/23/2004	dmd	5738	5738	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825190	MW-3					09/17/2004 13:10				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/23/2004	dmd		5738	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/23/2004	dmd		5738	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
cis-1,2-Dichloroethene	0.91		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
1,2-Dichloropropane	<0.12	B	ug/L	0.12	0.36	09/23/2004	dmd		5738	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/23/2004	dmd		5738	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/23/2004	dmd		5738	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/23/2004	dmd		5738	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/23/2004	dmd		5738	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	09/23/2004	dmd		5738	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/23/2004	dmd		5738	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/23/2004	dmd		5738	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/23/2004	dmd		5738	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/23/2004	dmd		5738	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/23/2004	dmd		5738	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825190	MW-3					09/17/2004 13:10				
Tetrachloroethene	0.67		ug/L	0.37	1.1	09/23/2004	dmd		5738	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/23/2004	dmd		5738	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/23/2004	dmd		5738	SW 8260B
1,1,1-Trichloroethane	9.06		ug/L	0.25	0.75	09/23/2004	dmd		5738	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/23/2004	dmd		5738	SW 8260B
Trichloroethylene	15.9		ug/L	0.43	1.3	09/23/2004	dmd		5738	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5738	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/23/2004	dmd		5738	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/23/2004	dmd		5738	SW 8260B
Bromofluoromethane (surr)	105		%			09/23/2004	dmd		5738	SW 8260B
Toluene-d8 (surr)	91		%			09/23/2004	dmd		5738	SW 8260B
4-Bromofluorobenzene (surr)	86		%			09/23/2004	dmd		5738	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	09/28/2004	ake	445	848	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	09/28/2004	ake	445	848	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	09/28/2004	ake	445	848	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	09/28/2004	ake	445	848	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	09/28/2004	ake	445	848	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	09/28/2004	ake	445	848	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	09/28/2004	ake	445	848	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	09/28/2004	ake	445	848	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	09/28/2004	ake	445	848	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	09/28/2004	ake	445	848	SW 8270C

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825190	MW-3					09/17/2004 13:10				
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	09/28/2004	ake	445	848	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	09/28/2004	ake	445	848	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05		ug/L	3.05	9.15	09/28/2004	ake	445	848	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	09/28/2004	ake	445	848	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	09/28/2004	ake	445	848	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	09/28/2004	ake	445	848	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	09/28/2004	ake	445	848	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	09/28/2004	ake	445	848	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	09/28/2004	ake	445	848	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	09/28/2004	ake	445	848	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	09/28/2004	ake	445	848	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	09/28/2004	ake	445	848	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	09/28/2004	ake	445	848	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	09/28/2004	ake	445	848	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	09/28/2004	ake	445	848	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	09/28/2004	ake	445	848	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	09/28/2004	ake	445	848	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	09/28/2004	ake	445	848	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	09/28/2004	ake	445	848	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	09/28/2004	ake	445	848	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	09/28/2004	ake	445	848	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	09/28/2004	ake	445	848	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	09/28/2004	ake	445	848	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	09/28/2004	ake	445	848	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825190	MW-3					09/17/2004 13:10				
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	09/28/2004	ake	445	848	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	09/28/2004	ake	445	848	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	09/28/2004	ake	445	848	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	09/28/2004	ake	445	848	SW 8270C
2-Methylnapthalene	<2.23		ug/L	2.23	6.69	09/28/2004	ake	445	848	SW 8270C
Napthalene	<2.68		ug/L	2.68	8.04	09/28/2004	ake	445	848	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	09/28/2004	ake	445	848	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	09/28/2004	ake	445	848	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	09/28/2004	ake	445	848	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	09/28/2004	ake	445	848	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	09/28/2004	ake	445	848	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	09/28/2004	ake	445	848	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	09/28/2004	ake	445	848	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	09/28/2004	ake	445	848	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	09/28/2004	ake	445	848	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	09/28/2004	ake	445	848	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	09/28/2004	ake	445	848	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	09/28/2004	ake	445	848	SW 8270C
Nitrobenzene-d5 (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
2-Fluorobiphenyl (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
Terphenyl-d14 (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	09/28/2004	ake	445	848	SW 8270C

S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825190	SAMPLE DESCRIPTION MW-3					DATE-TIME TAKEN 09/17/2004 13:10				
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	09/28/2004	ake	445	848	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	09/28/2004	ake	445	848	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	09/28/2004	ake	445	848	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	09/28/2004	ake	445	848	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	09/28/2004	ake	445	848	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	09/28/2004	ake	445	848	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	09/28/2004	ake	445	848	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	09/28/2004	ake	445	848	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	09/28/2004	ake	445	848	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	09/28/2004	ake	445	848	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	09/28/2004	ake	445	848	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	09/28/2004	ake	445	848	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	09/28/2004	ake	445	848	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	09/28/2004	ake	445	848	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	09/28/2004	ake	445	848	SW 8270C
Phenol-d6 (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
2-Fluorophenol (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
Tribromophenol (surr)	0	OOPS	%	100	100	09/28/2004	ake	445	848	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/28/2004	ake	445	848	SW 8270C
PCBs Wisconsin Aqueous						09/21/2004	scb	235		SW 3510
PCB 1016	<0.10		ug/L	0.10	0.30	09/28/2004	kak	235	649	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	09/28/2004	kak	235	649	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	09/28/2004	kak	235	649	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	09/28/2004	kak	235	649	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	09/28/2004	kak	235	649	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	09/28/2004	kak	235	649	SW 8082

S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825190	SAMPLE DESCRIPTION MW-3								DATE-TIME TAKEN 09/17/2004 13:10	
PCB-1260	<0.091		ug/L	0.091	0.27	09/28/2004	kak	235	649	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	09/28/2004	kak	235	649	SW 8082
Decachlorobiphenyl (Surr.)	35		%			09/28/2004	kak	235	649	SW 8082
Tetrachlorometaxylene (Surr.)	66		%			09/28/2004	kak	235	649	SW 8082
VOA Preservation pH	<2		units	NA		09/24/2004	sjg		1054	SW 9041A

TestAmerica

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Dissolved ICP Metals		1695	1.0		1.0	100		09/27/2004
Barium, Diss (ICP) mdl		6407	5.00	mg/L	4.92	98		09/27/2004
Barium, Diss (ICP) mdl		6407	5.00	mg/L	4.90	98		09/27/2004
Chromium, Diss (ICP) mdl		6423	5.00	mg/L	5.02	100		09/27/2004
Chromium, Diss (ICP) mdl		6423	5.00	mg/L	5.06	101		09/27/2004
Silver, Diss (ICP) mdl		6421	1.000	mg/L	0.9694	97		09/27/2004
Silver, Diss (ICP) mdl		6421	1.000	mg/L	0.9786	98		09/27/2004
Arsenic, Diss (GFAA) mdl		50	0.0150	mg/L	0.01486	99		09/22/2004
Cadmium, Diss (GFAA) mdl		39	0.0010	mg/L	0.00098	98		09/24/2004
Lead, Diss (GFAA) mdl		43	0.0375	mg/L	0.03567	95		09/21/2004
Mercury, diss mdl		799	1.00	ug/L	1.05	105		09/23/2004
Selenium, Diss (GFAA) mdl		38	0.0250	mg/L	0.0267	107		09/23/2004
VOLATILE COMPOUNDS								
Benzene		5738	100.0	ug/L	104	104		09/23/2004
Chlorobenzene		5738	100.0	ug/L	102	102		09/23/2004
1,1-Dichloroethene		5738	100.0	ug/L	110	110		09/23/2004
Ethylbenzene		5738	100.0	ug/L	102	102		09/23/2004
MTBE		5738	100.0	ug/L	97.2	97		09/23/2004
1,2,4-Trimethylbenzene		5738	100.0	ug/L	99.4	99		09/23/2004
Toluene		5738	100.0	ug/L	105	105		09/23/2004
1,3,5-Trimethylbenzene		5738	100.0	ug/L	102	102		09/23/2004
Trichloroethylene		5738	100.0	ug/L	103	103		09/23/2004
Xylenes, Total		5738	300.0	ug/L	308	103		09/23/2004
Dibromofluoromethane (surr)		5738	100.0000	%	103	103		09/23/2004
Toluene-d8 (surr)		5738	100.0000	%	101	101		09/23/2004
4-Bromofluorobenzene (surr)		5738	100.0000	%	101	101		09/23/2004
BNA Soil 8270 MDL								
Acenaphthene		180	60.00	ug/L	60.4	101		09/21/2004
Bis(2-ethylhexyl)phthalate		180	60.00	ug/L	58.2	97		09/21/2004
1,4-Dichlorobenzene		180	60.00	ug/L	58.1	97		09/21/2004
2,4-Dinitrotoluene		180	60.00	ug/L	50.6	84		09/21/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
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8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
N-Nitrosodi-n-propylamine		180	60.00	ug/L	55.8	93		09/21/2004
Pyrene		180	60.00	ug/L	60.6	101		09/21/2004
1,2,4-Trichlorobenzene		180	60.00	ug/L	59.3	99		09/21/2004
Nitrobenzene-d5 (surr)		180	60.00	%	58.0	97		09/21/2004
2-Fluorobiphenyl (surr)		180	60.00	%	60.7	101		09/21/2004
Terphenyl-d14 (surr)		180	60.00	%	60.7	101		09/21/2004
4-Chloro-3-methylphenol		180	60.00	ug/L	59.8	100		09/21/2004
2-chlorophenol		180	60.00	ug/L	58.2	97		09/21/2004
4-Nitrophenol		180	60.00	ug/L	56.0	93		09/21/2004
Pentachlorophenol		180	60.00	ug/L	50.7	84		09/21/2004
Phenol		180	60.00	ug/L	57.8	96		09/21/2004
Phenol-d6 (surr)		180	120.00	%	57.8	48		09/21/2004
2-Fluorophenol (surr)		180	120.00	%	58.1	48		09/21/2004
Tribromophenol (surr)		180	120.00	%	61.2	51		09/21/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		848	60.00	ug/L	57.0	95		09/28/2004
1,4-Dichlorobenzene		848	60.00	ug/L	56.9	95		09/28/2004
2,4-Dinitrotoluene		848	60.00	ug/L	60.8	101		09/28/2004
N-Nitrosodi-n-propylamine		848	60.00	ug/L	56.5	94		09/28/2004
Pyrene		848	60.00	ug/L	56.9	95		09/28/2004
1,2,4-Trichlorobenzene		848	60.00	ug/L	57.9	96		09/28/2004
Nitrobenzene-d5 (surr)		848	60.00	ug/L	60.1	100		09/28/2004
2-Fluorobiphenyl (surr)		848	60.00	ug/L	56.2	94		09/28/2004
Terphenyl-d14 (surr)		848	60.00	ug/L	55.9	93		09/28/2004
4-Chloro-3-methylphenol		848	60.00	ug/L	58.2	97		09/28/2004
2-chlorophenol		848	60.00	ug/L	60.5	101		09/28/2004
4-Nitrophenol		848	60.00	ug/L	59.3	99		09/28/2004
Pentachlorophenol		848	60.00	ug/L	46.1	77		09/28/2004
Phenol		848	60.00	ug/L	60.9	102		09/28/2004
Phenol-d6 (surr)		848	120.0	ug/L	122	102		09/28/2004
2-Fluorophenol (surr)		848	120.0	ug/L	119	99		09/28/2004

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Tribromophenol (surr)		848	120.0	ug/L	121	101		09/28/2004
PCBs Wisconsin Aqueous								
PCB-1221		649	0.64	ppm	0.59	92		09/28/2004
Decachlorobiphenyl (Surr.)		649	100	%	112	112		09/28/2004
Tetrachlorometaxylene (Surr.)		649	100	%	112	112		09/28/2004
PCBs Wisconsin Aqueous								
PCB-1221		649	0.96	ppm	0.91	95		09/28/2004
Decachlorobiphenyl (Surr.)		649	100	%	98	98		09/28/2004
Tetrachlorometaxylene (Surr.)		649	100	%	97	97		09/28/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5445	2,500	mg/kg	2,400	96		10/06/2004
Gasoline		5445	2,500	mg/kg	2,220	89		10/06/2004
Motor Oil		5445	2,500	mg/kg	2,420	97		10/06/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Motor Oil		5449	5,000	mg/kg	4,990	100		10/07/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	50.0	mg/kg	49.0	98		09/23/2004
Toluene		5822	50.0	mg/kg	48.9	98		09/23/2004
Ethylbenzene		5822	50.0	mg/kg	48.6	97		09/23/2004
Xylenes, Total		5822	100	mg/kg	97.2	97		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	97.9	98		09/23/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dissolved ICP Metals		1695	COMPLETE					09/27/2004
Barium, Diss (ICP) mdl		6407	<0.0013		mg/L	0.0013	0.0047	09/27/2004
Chromium, Diss (ICP) mdl		6423	<0.0026		mg/L	0.0026	0.0092	09/27/2004
Silver, Diss (ICP) mdl		6421	<0.0038		mg/L	0.0038	0.0136	09/27/2004
Arsenic, Diss (GFAA) mdl		50	<0.00036		mg/L	0.00036	0.0013	09/22/2004
Cadmium, Diss (GFAA) mdl		39	<0.00014		mg/L	0.00014	0.00050	09/24/2004
Lead, Diss (GFAA) mdl		43	<0.00050		mg/L	0.00050	0.0018	09/21/2004
Mercury, diss mdl		799	0.054	B	ug/L	0.017	0.061	09/23/2004
Selenium, Diss (GFAA) mdl		38	<0.0015		mg/L	0.0015	0.0053	09/23/2004
VOLATILE COMPOUNDS								
Benzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Bromodichloromethane		5738	<0.46		ug/L	0.46	1.4	09/23/2004
Bromoform		5738	<0.38		ug/L	0.38	1.1	09/23/2004
Bromomethane		5738	<0.62		ug/L	0.62	1.9	09/23/2004
Bromobenzene		5738	<0.38		ug/L	0.38	1.1	09/23/2004
Carbon disulfide		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Bromochloromethane		5738	<0.40		ug/L	0.40	1.2	09/23/2004
Carbon tetrachloride		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Dibromomethane		5738	<0.44		ug/L	0.44	1.3	09/23/2004
Chlorobenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
n-Butylbenzene		5738	0.20	B	ug/L	0.13	0.39	09/23/2004
sec-Butylbenzene		5738	<0.16		ug/L	0.16	0.48	09/23/2004
tert-Butylbenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Chloroethane		5738	<0.12		ug/L	0.12	0.36	09/23/2004
Chloroform		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Chloromethane		5738	<0.24		ug/L	0.24	0.72	09/23/2004
2-Chlorotoluene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
4-Chlorotoluene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Chlorodibromomethane		5738	<0.42		ug/L	0.42	1.3	09/23/2004
1,2-Dibromo-3-chloropropane		5738	<0.30		ug/L	0.30	0.90	09/23/2004
1,2-Dibromoethane (EDB)		5738	<0.42		ug/L	0.42	1.3	09/23/2004
1,2-Dichlorobenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,3-Dichlorobenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,4-Dichlorobenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Dichlorodifluoromethane		5738	<0.40		ug/L	0.4	1.2	09/23/2004
1,1-Dichloroethane		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,2-Dichloroethane		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Di-Isopropylether		5738	<0.32		ug/L	0.32	0.96	09/23/2004
1,3-Dichloropropane		5738	<0.25		ug/L	0.25	0.75	09/23/2004
2,2-Dichloropropane		5738	<0.73		ug/L	0.73	2.2	09/23/2004
1,1-Dichloropropene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,1-Dichloroethene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
trans-1,2-Dichloroethene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
cis-1,2-Dichloroethene		5738	<0.44		ug/L	0.44	1.3	09/23/2004
1,2-Dichloropropane		5738	0.18	B	ug/L	0.12	0.36	09/23/2004
cis-1,3-Dichloropropene		5738	<0.43		ug/L	0.43	1.2	09/23/2004
trans-1,3-Dichloropropene		5738	<0.44		ug/L	0.44	1.3	09/23/2004
Hexachlorobutadiene		5738	0.63	B	ug/L	0.22	0.66	09/23/2004
Ethylbenzene		5738	<0.43		ug/L	0.43	1.3	09/23/2004
Isopropylbenzene		5738	<0.44		ug/L	0.44	1.3	09/23/2004
p-Isopropyltoluene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Hexane		5738	<0.18		ug/L	0.18	0.54	09/23/2004
MTBE		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Methylene chloride		5738	<0.63		ug/L	0.63	1.9	09/23/2004
Napthalene		5738	<0.86		ug/L	0.86	2.6	09/23/2004
n-Propylbenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Styrene		5738	<0.41		ug/L	0.41	1.2	09/23/2004
1,1,1,2-Tetrachloroethane		5738	<0.40		ug/L	0.40	1.2	09/23/2004
1,1,2,2-Tetrachloroethane		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,2,3-Trichlorobenzene		5738	0.93	B	ug/L	0.40	1.2	09/23/2004
1,2,4-Trichlorobenzene		5738	0.48	B	ug/L	0.25	0.75	09/23/2004
Tetrachloroethene		5738	<0.37		ug/L	0.37	1.1	09/23/2004
1,2,3-Trichloropropane		5738	<0.49		ug/L	0.49	1.5	09/23/2004
1,2,4-Trimethylbenzene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
Toluene		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,3,5-Trimethylbenzene		5738	<0.14		ug/L	0.14	0.42	09/23/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,1-Trichloroethane		5738	<0.25		ug/L	0.25	0.75	09/23/2004
1,1,2-Trichloroethane		5738	<0.10		ug/L	0.10	0.3	09/23/2004
Trichloroethylene		5738	<0.43		ug/L	0.43	1.3	09/23/2004
Trichlorofluoromethane		5738	<0.47		ug/L	0.47	1.4	09/23/2004
Vinyl chloride		5738	<0.47		ug/L	0.47	1.4	09/23/2004
Xylenes, Total		5738	<0.38		ug/L	0.38	1.1	09/23/2004
Dibromofluoromethane (surr)		5738	101.0		%			09/23/2004
Toluene-d8 (surr)		5738	88.0		%			09/23/2004
4-Bromofluorobenzene (surr)		5738	89.0		%			09/23/2004
BNA Soil 8270 MDL								
Acenaphthene	111	180	<0.063		mg/kg	0.063	0.189	09/21/2004
Acenaphthylene	111	180	<0.059		mg/kg	0.059	0.177	09/21/2004
Anthracene	111	180	<0.039		mg/kg	0.039	0.117	09/21/2004
Benzidine	111	180	<0.098		mg/kg	0.098	0.294	09/21/2004
Benzo(a)anthracene	111	180	<0.035		mg/kg	0.035	0.105	09/21/2004
Benzo(b)fluoranthene	111	180	<0.037		mg/kg	0.037	0.111	09/21/2004
Benzo(k)fluoranthene	111	180	<0.049		mg/kg	0.049	0.147	09/21/2004
Benzo(a)pyrene	111	180	<0.049		mg/kg	0.049	0.147	09/21/2004
Benzo(ghi)perylene	111	180	<0.039		mg/kg	0.039	0.117	09/21/2004
Benzyl alcohol	111	180	<0.081		mg/kg	0.081	0.243	09/21/2004
Benzyl butyl phthalate	111	180	<0.043		mg/kg	0.043	0.129	09/21/2004
Bis(2-chloroethyl)ether	111	180	<0.078		mg/kg	0.078	0.234	09/21/2004
Bis(2-chloroethoxy)methane	111	180	<0.074		mg/kg	0.074	0.222	09/21/2004
Bis(2-ethylhexyl)phthalate	111	180	<0.032		mg/kg	0.032	0.096	09/21/2004
Bis(2chloroisopropyl)ether	111	180	<0.086		mg/kg	0.086	0.258	09/21/2004
4-Bromophenyl phenyl ether	111	180	<0.048		mg/kg	0.048	0.144	09/21/2004
Carbazole	111	180	<0.039		mg/kg	0.039	0.117	09/21/2004
4-Chloroaniline	111	180	<0.104		mg/kg	0.104	0.312	09/21/2004
2-Chloronaphthalene	111	180	<0.070		mg/kg	0.070	0.21	09/21/2004
4-Chlorophenylphenyl ether	111	180	<0.055		mg/kg	0.055	0.165	09/21/2004
Chrysene	111	180	<0.030		mg/kg	0.030	0.090	09/21/2004
Dibenzo(a,h)anthracene	111	180	<0.077		mg/kg	0.077	0.231	09/21/2004
Dibenzofuran	111	180	<0.047		mg/kg	0.047	0.141	09/21/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Di-n-butylphthalate	111	180	<0.043		mg/kg	0.043	0.129	09/21/2004
1,2-Dichlorobenzene	111	180	<0.103		mg/kg	0.103	0.309	09/21/2004
1,3-Dichlorobenzene	111	180	<0.092		mg/kg	0.092	0.276	09/21/2004
1,4-Dichlorobenzene	111	180	<0.085		mg/kg	0.085	0.255	09/21/2004
3,3-Dichlorobenzidine	111	180	<0.107		mg/kg	0.107	0.321	09/21/2004
Diethyl phthalate	111	180	<0.047		mg/kg	0.047	0.141	09/21/2004
2,4-Dinitrotoluene	111	180	<0.047		mg/kg	0.047	0.141	09/21/2004
2,6-Dinitrotoluene	111	180	<0.066		mg/kg	0.066	0.198	09/21/2004
Di-n-octylphthalate	111	180	<0.060		mg/kg	0.060	0.18	09/21/2004
Fluorene	111	180	<0.053		mg/kg	0.053	0.159	09/21/2004
Hexachlorobenzene	111	180	<0.029		mg/kg	0.029	0.087	09/21/2004
Hexachlorocyclopentadiene	111	180	<0.058		mg/kg	0.058	0.174	09/21/2004
Hexachloro-1,3-butadiene	111	180	<0.067		mg/kg	0.067	0.201	09/21/2004
Hexachloroethane	111	180	<0.082		mg/kg	0.082	0.246	09/21/2004
Indeno(1,2,3-cd)pyrene	111	180	<0.031		mg/kg	0.031	0.093	09/21/2004
Isophorone	111	180	<0.059		mg/kg	0.059	0.177	09/21/2004
2-Methylnaphthalene	111	180	<0.064		mg/kg	0.064	0.192	09/21/2004
Naphthalene	111	180	<0.073		mg/kg	0.073	0.219	09/21/2004
2-Nitroaniline	111	180	<0.070		mg/kg	0.070	0.21	09/21/2004
3-Nitroaniline	111	180	<0.059		mg/kg	0.059	0.177	09/21/2004
4-Nitroaniline	111	180	<0.069		mg/kg	0.069	0.207	09/21/2004
Nitrobenzene	111	180	<0.076		mg/kg	0.076	0.228	09/21/2004
N-Nitrosodimethylamine	111	180	<0.111		mg/kg	0.111	0.333	09/21/2004
N-Nitrosodiphenylamine	111	180	<0.034		mg/kg	0.034	0.102	09/21/2004
N-Nitrosodi-n-propylamine	111	180	<0.083		mg/kg	0.083	0.249	09/21/2004
Phenanthrene	111	180	<0.038		mg/kg	0.038	0.114	09/21/2004
Pyrene	111	180	<0.050		mg/kg	0.050	0.15	09/21/2004
Pyridine	111	180	<0.112		mg/kg	0.112	0.336	09/21/2004
1,2,4-Trichlorobenzene	111	180	<0.073		mg/kg	0.073	0.219	09/21/2004
Nitrobenzene-d5 (surr)	111	180	63.0		%			09/21/2004
2-Fluorobiphenyl (surr)	111	180	65.0		%			09/21/2004
Terphenyl-d14 (surr)	111	180	83.0		%			09/21/2004
Benzoic Acid	111	180	<0.33		mg/kg	0.33	0.99	09/21/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
4-Chloro-3-methylphenol	111	180	<0.072		mg/kg	0.072	0.216	09/21/2004
2-chlorophenol	111	180	<0.086		mg/kg	0.086	0.258	09/21/2004
2-Methylphenol	111	180	<0.078		mg/kg	0.078	0.234	09/21/2004
4-Methylphenol	111	180	<0.080		mg/kg	0.080	0.24	09/21/2004
Cresols, Total	111	180	<0.158		mg/kg	0.158	0.474	09/21/2004
2,4-Dichlorophenol	111	180	<0.074		mg/kg	0.074	0.222	09/21/2004
2,4-Dimethylphenol	111	180	<0.063		mg/kg	0.063	0.189	09/21/2004
2,4-Dinitrophenol	111	180	<0.028		mg/kg	0.028	0.084	09/21/2004
2-Methyl-4,6-dinitrophenol	111	180	<0.105		mg/kg	0.105	0.315	09/21/2004
2-Nitrophenol	111	180	<0.112		mg/kg	0.112	0.336	09/21/2004
4-Nitrophenol	111	180	<0.066		mg/kg	0.066	0.198	09/21/2004
Pentachlorophenol	111	180	<0.077	L	mg/kg	0.077	0.231	09/21/2004
Phenol	111	180	<0.077		mg/kg	0.077	0.231	09/21/2004
2,4,5-Trichlorophenol	111	180	<0.069		mg/kg	0.069	0.207	09/21/2004
2,4,6-Trichlorophenol	111	180	<0.054		mg/kg	0.054	0.162	09/21/2004
Phenol-d6 (surr)	111	180	63.0		%			09/21/2004
2-Fluorophenol (surr)	111	180	63.0		%			09/21/2004
Tribromophenol (surr)	111	180	87.0		%			09/21/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	445	846	<2.9		ug/L	2.9	8.7	09/24/2004
Acenaphthylene	445	846	<2.52		ug/L	2.52	7.56	09/24/2004
Anthracene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
Benzidine	445	846	<2.15		ug/L	2.15	6.45	09/24/2004
Benzo(a)anthracene	445	846	<2.72		ug/L	2.72	8.16	09/24/2004
Benzo(b)fluoranthene	445	846	<2.57		ug/L	2.57	7.71	09/24/2004
Benzo(k)fluoranthene	445	846	<2.6		ug/L	2.6	7.8	09/24/2004
Benzo(a)pyrene	445	846	<2.47		ug/L	2.47	7.41	09/24/2004
Benzo(ghi)perylene	445	846	<2.78		ug/L	2.78	8.34	09/24/2004
Benzyl Alcohol	445	846	<2.5		ug/L	2.5	7.5	09/24/2004
Benzyl butyl phthalate	445	846	<2.73		ug/L	2.73	8.19	09/24/2004
Bis(2-chloroethyl)ether	445	846	<2.17		ug/L	2.17	6.51	09/24/2004
Bis(2-chloroethoxy)methane	445	846	<2.33		ug/L	2.33	6.99	09/24/2004
Bis(2-ethylhexyl)phthalate	445	846	<3.05		ug/L	3.05	9.15	09/24/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bis(2chloroisopropyl)ether	445	846	<2.19		ug/L	2.19	6.57	09/24/2004
4-Bromophenyl phenyl ether	445	846	<3.27		ug/L	3.27	9.81	09/24/2004
4-Chloroaniline	445	846	<1.69		ug/L	1.69	5.07	09/24/2004
2-Chloronaphthalene	445	846	<2.32		ug/L	2.32	6.96	09/24/2004
4-Chlorophenylphenyl ether	445	846	<2.58		ug/L	2.58	7.74	09/24/2004
Chrysene	445	846	<2.67		ug/L	2.67	8.01	09/24/2004
Dibenzo (a, h) anthracene	445	846	<2.73		ug/L	2.73	8.19	09/24/2004
Dibenzofuran	445	846	<1.97		ug/L	1.97	5.91	09/24/2004
Di-n-butylphthalate	445	846	<2.49		ug/L	2.49	7.47	09/24/2004
1,2-Dichlorobenzene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
1,3-Dichlorobenzene	445	846	<2.09		ug/L	2.09	6.27	09/24/2004
1,4-Dichlorobenzene	445	846	<2.1		ug/L	2.1	6.3	09/24/2004
3,3-Dichlorobenzidine	445	846	<1.55		ug/L	1.55	4.65	09/24/2004
Diethyl phthalate	445	846	<2.49		ug/L	2.49	7.47	09/24/2004
1,2-Diphenylhydrazine	445	846	<2.36		ug/L	2.36	7.08	09/24/2004
Dimethyl phthalate	445	846	<2.58		ug/L	2.58	7.74	09/24/2004
2,4-Dinitrotoluene	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
2,6-Dinitrotoluene	445	846	<1.55		ug/L	1.55	4.65	09/24/2004
Di-n-octylphthalate	445	846	<2.82		ug/L	2.82	8.46	09/24/2004
Fluoranthene	445	846	<2.08		ug/L	2.08	6.24	09/24/2004
Fluorene	445	846	<2.13		ug/L	2.13	6.39	09/24/2004
Hexachlorobenzene	445	846	<2.15		ug/L	2.15	6.45	09/24/2004
Hexachloro-1,3-butadiene	445	846	<2.41		ug/L	2.41	7.23	09/24/2004
Hexachlorocyclopentadiene	445	846	<1.78		ug/L	1.78	5.34	09/24/2004
Hexachloroethane	445	846	<1.94		ug/L	1.94	5.82	09/24/2004
Indeno (1,2,3-cd) pyrene	445	846	<2.6		ug/L	2.6	7.8	09/24/2004
Isophorone	445	846	<2.37		ug/L	2.37	7.11	09/24/2004
2-Methylnapthalene	445	846	<2.23		ug/L	2.23	6.69	09/24/2004
Naphthalene	445	846	<2.68		ug/L	2.68	8.04	09/24/2004
2-Nitroaniline	445	846	<2.25		ug/L	2.25	6.75	09/24/2004
3-Nitroaniline	445	846	<1.84		ug/L	1.84	5.52	09/24/2004
4-Nitroaniline	445	846	<1.36		ug/L	1.36	4.08	09/24/2004
Nitrobenzene	445	846	<2.04		ug/L	2.04	6.12	09/24/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
N-Nitrosodimethylamine	445	846	<2.01		ug/L	2.01	6.03	09/24/2004
N-Nitrosodiphenylamine	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
N-Nitrosodi-n-propylamine	445	846	<2.44		ug/L	2.44	7.32	09/24/2004
N-Nitrosodi-n-butylamine	445	846	<2.76		ug/L	2.76	8.28	09/24/2004
N-Nitrosodiethylamine	445	846	<1.71		ug/L	1.71	5.13	09/24/2004
Phenanthrene	445	846	<2.56		ug/L	2.56	7.68	09/24/2004
N-Nitrosopyrrolidine	445	846	<2.55		ug/L	2.55	7.65	09/24/2004
Pentachlorobenzene	445	846	<1.51		ug/L	1.51	4.53	09/24/2004
Pyrene	445	846	<2.8		ug/L	2.8	8.4	09/24/2004
Pyridine	445	846	<1.36		ug/L	1.36	4.08	09/24/2004
1,2,4,5-Tetrachlorobenzene	445	846	<2.46		ug/L	2.46	7.38	09/24/2004
1,2,4-Trichlorobenzene	445	846	<2.33		ug/L	2.33	6.99	09/24/2004
Nitrobenzene-d5 (surr)	445	846	88.0		%	100	100	09/24/2004
2-Fluorobiphenyl (surr)	445	846	75.0		%	100	100	09/24/2004
Terphenyl-d14 (surr)	445	846	102.0		%	100	100	09/24/2004
Benzoic Acid	445	846	<10.0		ug/L	10.0	30.0	09/24/2004
4-Chloro-3-methylphenol	445	846	<2.7		ug/L	2.7	8.1	09/24/2004
2-chlorophenol	445	846	<2.48		ug/L	2.48	7.44	09/24/2004
Cresols, Total	445	846	<4.42		ug/L	4.42	13.3	09/24/2004
2,4-Dichlorophenol	445	846	<2.66		ug/L	2.66	7.98	09/24/2004
2,4-Dimethylphenol	445	846	<1.49		ug/L	1.49	4.47	09/24/2004
2,4-Dinitrophenol	445	846	<2.59		ug/L	2.59	7.77	09/24/2004
2-Methyl-4,6-dinitrophenol	445	846	<2.98		ug/L	2.98	8.94	09/24/2004
2-Nitrophenol	445	846	<2.76		ug/L	2.76	8.28	09/24/2004
4-Nitrophenol	445	846	<1.8		ug/L	1.8	5.4	09/24/2004
2,5-Dinitrophenol	445	846	<4.21		ug/L	4.21	12.6	09/24/2004
Pentachlorophenol	445	846	<2.78		ug/L	2.78	8.34	09/24/2004
Phenol	445	846	<1.72		ug/L	1.72	5.16	09/24/2004
2,4,5-Trichlorophenol	445	846	<3.22		ug/L	3.22	9.66	09/24/2004
2,4,6-Trichlorophenol	445	846	<3.66		ug/L	3.66	11.0	09/24/2004
Phenol-d6 (surr)	445	846	34.0		%	100	100	09/24/2004
2-Fluorophenol (surr)	445	846	55.0		%	100	100	09/24/2004
Tribromophenol (surr)	445	846	100.0		%	100	100	09/24/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCBs Wisconsin Aqueous								
PCB 1016	235	649	<0.10		ug/L	0.10	0.30	09/28/2004
PCB-1242	235	649	<0.085		ug/L	0.085	0.26	09/28/2004
PCB-1221	235	649	<0.49		ug/L	0.49	1.5	09/28/2004
PCB-1232	235	649	<0.027		ug/L	0.027	0.081	09/28/2004
PCB-1248	235	649	<0.065		ug/L	0.065	0.20	09/28/2004
PCB-1254	235	649	<0.098		ug/L	0.098	0.29	09/28/2004
PCB-1260	235	649	<0.091		ug/L	0.091	0.27	09/28/2004
PCB-1268	235	649	<1.0		ug/L	1.0	1.0	09/28/2004
Decachlorobiphenyl (Surr.)	235	649	39		%			09/28/2004
Tetrachlorometaxylene (Surr.)	235	649	68		%			09/28/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3193	5444	<10		mg/kg	10	10	10/06/2004
Diesel	3193	5444	<10		mg/kg	6.7	10	10/06/2004
Gasoline	3193	5444	<10		mg/kg	5.7	10	10/06/2004
Motor Oil	3193	5444	<10		mg/kg	7.1	10	10/06/2004
N-Octacosane (Surr.)	3193	5444	61		%	1.0	1.0	10/06/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	<0.25		mg/kg	0.197	0.25	09/23/2004
Toluene		5822	<0.5		mg/kg	0.212	0.5	09/23/2004
Ethylbenzene		5822	<0.5		mg/kg	0.224	0.5	09/23/2004
Xylenes, Total		5822	<0.5		mg/kg	0.216	0.5	09/23/2004
4-Bromofluorobenzene (surr.)		5822	86.0		%	1	1	09/23/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Mercury, diss mdl		799	0.00164	ug/L	0.001634	100	L	09/23/2004
VOLATILE COMPOUNDS								
Benzene		5738	20.0	ug/L	19.6	98		09/23/2004
Chlorobenzene		5738	20.0	ug/L	18.0	90		09/23/2004
1,1-Dichloroethene		5738	20.0	ug/L	25.3	126		09/23/2004
Ethylbenzene		5738	20.0	ug/L	18.0	90		09/23/2004
MTBE		5738	20.0	ug/L	21.0	105		09/23/2004
1,2,4-Trimethylbenzene		5738	20.0	ug/L	18.3	92		09/23/2004
Toluene		5738	20.0	ug/L	18.3	92		09/23/2004
1,3,5-Trimethylbenzene		5738	20.0	ug/L	18.0	90		09/23/2004
Trichloroethylene		5738	20.0	ug/L	19.6	98		09/23/2004
Xylenes, Total		5738	60.0	ug/L	54.7	91		09/23/2004
Dibromofluoromethane (surr)		5738	100	%	110.0	110		09/23/2004
Toluene-d8 (surr)		5738	100	%	92.0	92		09/23/2004
4-Bromofluorobenzene (surr)		5738	100	%	97.0	97		09/23/2004
BNA Soil 8270 MDL								
Acenaphthene	111	180	3.33	mg/kg	3.30	99		09/21/2004
1,4-Dichlorobenzene	111	180	3.33	mg/kg	2.46	74		09/21/2004
2,4-Dinitrotoluene	111	180	3.33	mg/kg	3.04	91		09/21/2004
N-Nitrosodi-n-propylamine	111	180	3.33	mg/kg	2.76	83		09/21/2004
Pyrene	111	180	3.33	mg/kg	3.44	103		09/21/2004
1,2,4-Trichlorobenzene	111	180	3.33	mg/kg	2.48	74		09/21/2004
Nitrobenzene-d5 (surr)	111	180	100	%	82.0	82		09/21/2004
2-Fluorobiphenyl (surr)	111	180	100	%	94.0	94		09/21/2004
Terphenyl-d14 (surr)	111	180	100	%	87.0	87		09/21/2004
4-Chloro-3-methylphenol	111	180	3.33	mg/kg	3.25	98		09/21/2004
2-chlorophenol	111	180	3.33	mg/kg	2.48	74		09/21/2004
4-Nitrophenol	111	180	3.33	mg/kg	3.08	92		09/21/2004
Pentachlorophenol	111	180	3.33	mg/kg	0.65	20	L	09/21/2004
Phenol	111	180	3.33	mg/kg	2.51	75		09/21/2004
Phenol-d6 (surr)	111	180	100	%	77.0	77		09/21/2004
2-Fluorophenol (surr)	111	180	100	%	72.0	72		09/21/2004
Tribromophenol (surr)	111	180	100	%	103.0	103		09/21/2004

L - LCS recovery is outside of control limits.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
BNA - 8270 AQUEOUS WI								
Acenaphthene	445	846	100.0	ug/L	88.2	88		09/24/2004
1,4-Dichlorobenzene	445	846	100.0	ug/L	59.4	59		09/24/2004
2,4-Dinitrotoluene	445	846	100.0	ug/L	89.2	89		09/24/2004
N-Nitrosodi-n-propylamine	445	846	100.0	ug/L	74.2	74		09/24/2004
Pyrene	445	846	100.0	ug/L	103	103		09/24/2004
1,2,4-Trichlorobenzene	445	846	100.0	ug/L	57.7	58		09/24/2004
Nitrobenzene-d5 (surr)	445	846	100	%	82.0	82		09/24/2004
2-Fluorobiphenyl (surr)	445	846	100	%	70.0	70		09/24/2004
Terphenyl-d14 (surr)	445	846	100	%	96.0	96		09/24/2004
4-Chloro-3-methylphenol	445	846	100.0	ug/L	87.9	88		09/24/2004
2-chlorophenol	445	846	100.0	ug/L	84.1	84		09/24/2004
4-Nitrophenol	445	846	100.0	ug/L	49.1	49		09/24/2004
Pentachlorophenol	445	846	100.0	ug/L	101	101		09/24/2004
Phenol	445	846	100.0	ug/L	38.5	38		09/24/2004
Phenol-d6 (surr)	445	846	100	%	36.0	36		09/24/2004
2-Fluorophenol (surr)	445	846	100	%	56.0	56		09/24/2004
Tribromophenol (surr)	445	846	100	%	92.0	92		09/24/2004
PCBs Wisconsin Aqueous								
PCB-1221	235	649	5.0	ug/L	3.0	60		09/28/2004
Decachlorobiphenyl (Surr.)	235	649	100	%	43	43		09/28/2004
Tetrachlorometaxylene (Surr.)	235	649	100	%	66	66		09/28/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3193	5444	66.7	mg/kg	58.9	88		10/06/2004
N-Octacosane (Surr.)	3193	5444	100	%	103	103		10/06/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	12.4	mg/kg	15.1	122		09/23/2004
Toluene		5822	12.4	mg/kg	15.2	123		09/23/2004
Ethylbenzene		5822	12.4	mg/kg	15.1	122		09/23/2004
Xylenes, Total		5822	24.8	mg/kg	30.1	121		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	87.7	88		09/23/2004

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS %	Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1695	1.0		COMPLETE					09/27/2004
Barium, Diss (ICP) mdl		6407	0.9615	mg/L	0.048	0.8519	84			09/27/2004
Barium, Diss (ICP) mdl		6407	0.9615	mg/L	0.034	0.8353	83			09/27/2004
Chromium, Diss (ICP) mdl		6423	0.9615	mg/L	<0.0026	0.8547	89			09/27/2004
Chromium, Diss (ICP) mdl		6423	0.9615	mg/L	<0.0026	0.8525	89			09/27/2004
Silver, Diss (ICP) mdl		6421	0.9804	mg/L	<0.0038	0.8335	85			09/27/2004
Arsenic, Diss (GFAA) mdl		50	0.0227	mg/L	0.0024	0.02625	105			09/22/2004
Cadmium, Diss (GFAA) mdl		39	0.00119	mg/L	<0.0005	0.00124	104			09/24/2004
Lead, Diss (GFAA) mdl		43	0.0227	mg/L	<0.0040	0.01926	85			09/21/2004
Selenium, Diss (GFAA) mdl		38	0.0238	mg/L	<0.0015	0.0231	97			09/23/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13038

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2765	81.99	81.34	%	0.8		09/20/2004	20
Solids, Total		2765	82.31	83.76	%	1.7		09/20/2004	20
Dissolved ICP Metals		1695	COMPLETE	COMPLETE				09/27/2004	20
Barium, Diss (ICP) mdl		6407	0.048	0.050	mg/L	4.1		09/27/2004	20
Barium, Diss (ICP) mdl		6407	0.033	0.033	mg/L	0.0		09/27/2004	20
Chromium, Diss (ICP) mdl		6423	<0.0026	<0.0026	mg/L			09/27/2004	20
Chromium, Diss (ICP) mdl		6423	<0.0026	<0.0026	mg/L			09/27/2004	20
Silver, Diss (ICP) mdl		6421	<0.0038	<0.0038	mg/L			09/27/2004	20
Silver, Diss (ICP) mdl		6421	<0.0038	<0.0038	mg/L			09/27/2004	20
Arsenic, Diss (GFAA) mdl		50	<0.00036	<0.00036	mg/L			09/22/2004	20
Cadmium, Diss (GFAA) mdl		39	<0.0005	<0.0005	mg/L			09/24/2004	20
Lead, Diss (GFAA) mdl		43	<0.0040	<0.0040	mg/L			09/21/2004	20
Selenium, Diss (GFAA) mdl		38	<0.0015	<0.0015	mg/L			09/23/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13038

Analyte	Prep	Run	Matrix	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD Spike		Percent Recovery	MS/MSD RPD
	Batch Number	Batch Number	Spike Result						Amount	Units		
Mercury, diss mdl		799	0.00788	0.00646	0.0016	ug/L	86.9	0.0091	0.0016	ug/L	165.9	15.2
VOLATILE COMPOUNDS												
Benzene		5738	22	3.71	20	ug/L	91.5	21.8	20.0	ug/L	90.5	0.9
Chlorobenzene		5738	19	<0.25	20	ug/L	95.0	18.6	20.0	ug/L	93.0	2.1
1,1-Dichloroethene		5738	20	<0.25	20	ug/L	100.0	19.9	20.0	ug/L	99.5	0.5
Ethylbenzene		5738	17.2	<0.43	20.0	ug/L	86.0	16.7	20.0	ug/L	83.5	2.9
1,2,4-Trimethylbenzene		5738	12.9	<0.25	20.0	ug/L	64.5	12.0	20.0	ug/L	60.0	7.2
Toluene		5738	19	<0.25	20	ug/L	95.0	17.9	20.0	ug/L	89.5	6.0
1,3,5-Trimethylbenzene		5738	13.4	<0.14	20.0	ug/L	67.0	13.2	20.0	ug/L	66.0	1.5
Trichloroethylene		5738	17.1	<0.43	20.0	ug/L	85.5	16.9	20.0	ug/L	84.5	1.2
BNA Soil 8270 MDL												
Acenaphthene	111	180	3.34	<0.073	3.90	mg/kg dw	85.7	3.15	3.88	mg/kg dw	81.3	5.8
1,4-Dichlorobenzene	111	180	2.62	<0.098	3.90	mg/kg dw	67.2	2.64	3.88	mg/kg dw	68.2	0.9
2,4-Dinitrotoluene	111	180	3.45	<0.055	3.90	mg/kg dw	88.4	3.50	3.88	mg/kg dw	90.2	1.4
N-Nitrosodi-n-propylamine	111	180	3.16	<0.096	3.90	mg/kg dw	81.2	2.92	3.88	mg/kg dw	75.2	8.2
Pyrene	111	180	3.26	<0.058	3.90	mg/kg dw	83.6	3.09	3.88	mg/kg dw	79.8	5.2
1,2,4-Trichlorobenzene	111	180	2.67	<0.085	3.90	mg/kg dw	68.4	2.60	3.88	mg/kg dw	67.0	2.7
4-Chloro-3-methylphenol	111	180	3.80	<0.084	3.90	mg/kg dw	97.6	3.54	3.88	mg/kg dw	91.4	7.1
2-chlorophenol	111	180	3.24	<0.10	3.90	mg/kg dw	83.0	2.94	3.88	mg/kg dw	75.8	9.6
4-Nitrophenol	111	180	3.69	<0.077	3.90	mg/kg dw	94.5	3.67	3.88	mg/kg dw	94.8	0.3
Pentachlorophenol	111	180	1.46	<0.089	3.90	mg/kg dw	37.4	1.58	3.88	mg/kg dw	40.7	7.8
Phenol	111	180	3.20	<0.089	3.90	mg/kg dw	82.1	2.92	3.88	mg/kg dw	75.2	9.3
BNA - 8270 AQUEOUS WI												
Acenaphthene	445	848	171	<30	1087	ug/L	15.7	155	1087	ug/L	14.3	9.8
1,4-Dichlorobenzene	445	848	129	<22	1087	ug/L	11.9	114	1087	ug/L	10.5	12.3
2,4-Dinitrotoluene	445	848	150	<28.2	1087	ug/L	13.8	127	1087	ug/L	11.7	16.6
N-Nitrosodi-n-propylamine	445	848	147	<26.5	1087	ug/L	13.5	141	1087	ug/L	13.0	4.2

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13038

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike		Percent Recovery	MSD		Percent Recovery	MS/MSD RPD	
					Amount	Units		Result	Spike Amount			Units
Pyrene	445	848	180	<30	1087	ug/L	16.6	152	1087	ug/L	14.0	16.9
1,2,4-Trichlorobenzene	445	848	126	<25.2	1087	ug/L	11.6	114	1087	ug/L	10.5	10.0
4-Chloro-3-methylphenol	445	848	178	<30	1087	ug/L	16.4	154	1087	ug/L	14.2	14.5
2-chlorophenol	445	848	150	<26.9	1087	ug/L	13.8	145	1087	ug/L	13.3	3.4
4-Nitrophenol	445	848	95	<20	1087	ug/L	8.7	72	1087	ug/L	6.6	27.5
Pentachlorophenol	445	848	97	<30.2	1087	ug/L	8.9	82	1087	ug/L	7.5	16.8
Phenol	445	848	73	<18.7	1087	ug/L	6.7	67	1087	ug/L	6.2	8.6
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5822	13.4	<0.25	12.5	mg/kg	107.2	10.1	12.2	mg/kg	82.8	28.1
Toluene		5822	13.7	<0.5	12.5	mg/kg	109.6	10.3	12.2	mg/kg	84.4	28.3
Ethylbenzene		5822	13.8	<0.5	12.5	mg/kg	110.4	10.4	12.2	mg/kg	85.2	28.1
Xylenes, Total		5822	27.4	<0.5	25.0	mg/kg	109.6	20.6	24.4	mg/kg	84.4	28.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job No: 04.13038

Analyte	Prep	Run	LCS	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch								
Mercury, diss mdl		799	0.00164	ug/L	0.00163		99.6	80 - 125		20
VOLATILE COMPOUNDS										
Benzene		5738	20.0	ug/L	19.6		98.0	81 - 124		27
Chlorobenzene		5738	20.0	ug/L	18.0		90.0	77 - 125		28
1,1-Dichloroethene		5738	20.0	ug/L	25.3		126.5	53 - 143		28
Ethylbenzene		5738	20.0	ug/L	18.0		90.0	65 - 140		24
MTBE		5738	20.0	ug/L	21.0		105.0	70 - 133		26
1,2,4-Trimethylbenzene		5738	20.0	ug/L	18.3		91.5	59 - 145		23
Toluene		5738	20.0	ug/L	18.3		91.5	73 - 127		21
1,3,5-Trimethylbenzene		5738	20.0	ug/L	18.0		90.0	63 - 141		24
Trichloroethylene		5738	20.0	ug/L	19.6		98.0	81 - 121		16
Xylenes, Total		5738	60.0	ug/L	54.7		91.2	75 - 130		20
Dibromofluoromethane (surr)		5738	100	%	110.0		110.0	85 - 118		50
Toluene-d8 (surr)		5738	100	%	92.0		92.0	76 - 120		50
4-Bromofluorobenzene (surr)		5738	100	%	97.0		97.0	76 - 116		50
BNA Soil 8270 MDL										
Benaphthene	111	180	3.33	mg/kg	3.30		99.1	69 - 108		35
1,2-Dichlorobenzene	111	180	3.33	mg/kg	2.46		73.9	49 - 96		35
1,4-Dinitrotoluene	111	180	3.33	mg/kg	3.04		91.3	68 - 129		35
N-Nitrosodi-n-propylamine	111	180	3.33	mg/kg	2.76		82.9	53 - 105		35
Pyrene	111	180	3.33	mg/kg	3.44		103.3	68 - 117		35
1,2,4-Trichlorobenzene	111	180	3.33	mg/kg	2.48		74.5	51 - 98		35
Nitrobenzene-d5 (surr)	111	180	100	%	82.0		82.0	56 - 113		
2-Fluorobiphenyl (surr)	111	180	100	%	94.0		94.0	67 - 107		
Terphenyl-d14 (surr)	111	180	100	%	87.0		87.0	66 - 115		
4-Chloro-3-methylphenol	111	180	3.33	mg/kg	3.25		97.6	67 - 115		35
2-chlorophenol	111	180	3.33	mg/kg	2.48		74.5	51 - 94		35
4-Nitrophenol	111	180	3.33	mg/kg	3.08		92.5	63 - 140		35
Pentachlorophenol	111	180	3.33	mg/kg	0.65		19.5	49 - 139		35
Phenol	111	180	3.33	mg/kg	2.51		75.4	50 - 98		35
Phenol-d6 (surr)	111	180	100	%	77.0		77.0	55 - 106		
2-Fluorophenol (surr)	111	180	100	%	72.0		72.0	52 - 96		

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job No: 04.13038

Analyte	Prep Batch Number	Run Batch Number	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
Tribromophenol (surr)	111	180	100	%	103.0		103.0		66 - 149		
BNA - 8270 AQUEOUS WI											
Acenaphthene	445	846	100.0	ug/L	88.2		88.2		42 - 127		20
1,4-Dichlorobenzene	445	846	100.0	ug/L	59.4		59.4		30 - 101		20
2,4-Dinitrotoluene	445	846	100.0	ug/L	89.2		89.2		51 - 141		20
N-Nitrosodi-n-propylamine	445	846	100.0	ug/L	74.2		74.2		39 - 119		20
Pyrene	445	846	100.0	ug/L	103		103.0		44 - 130		20
1,2,4-Trichlorobenzene	445	846	100.0	ug/L	57.7		57.7		35 - 105		20
Nitrobenzene-d5 (surr)	445	846	100	%	82.0		82.0		37 - 127		20
2-Fluorobiphenyl (surr)	445	846	100	%	70.0		70.0		40 - 114		20
Terphenyl-d14 (surr)	445	846	100	%	96.0		96.0		38 - 116		20
4-Chloro-3-methylphenol	445	846	100.0	ug/L	87.9		87.9		41 - 127		20
2-chlorophenol	445	846	100.0	ug/L	84.1		84.1		35 - 107		20
4-Nitrophenol	445	846	100.0	ug/L	49.1		49.1		15 - 66		20
Pentachlorophenol	445	846	100.0	ug/L	101		101.0		19 - 109		20
Phenol	445	846	100.0	ug/L	38.5		38.5		D - 90		20
Phenol-d6 (surr)	445	846	100	%	36.0		36.0		28 - 109		20
2-Fluorophenol (surr)	445	846	100	%	56.0		56.0		30 - 140		20
Tribromophenol (surr)	445	846	100	%	92.0		92.0		44 - 134		20
PCBs Wisconsin Aqueous											
PCB-1221	235	649	5.0	ug/L	3.0	3.0	60.0	60.0	15 - 178	0.0	20
Decachlorobiphenyl (Surr.)	235	649	100	%	43	33	43.0	33.0	37 - 134	26.3	
Tetrachlorometaxylene (Sur	235	649	100	%	66	60	66.0	60.0	37 - 115	9.5	
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3193	5444	66.7	mg/kg	58.9		88.3		42 - 132		20
N-Octacosane (Surr.)	3193	5444	100	%	103		103.0		44 - 134		20
VOLATILES - BTEX (NONAQUEO											
Benzene		5822	12.4	mg/kg	15.1		121.8		78 - 151		20
Toluene		5822	12.4	mg/kg	15.2		122.6		79 - 151		20
Ethylbenzene		5822	12.4	mg/kg	15.1		121.8		79 - 157		20
Xylenes, Total		5822	24.8	mg/kg	30.1		121.4		76 - 149		20
4-Bromofluorobenzene (surr		5822	100.	%	87.7		87.7		78 - 124		20

TestAmerica Job Number: 04.13038

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Howard R. Green Project: Chamberlain

City: red & white

Date: 9/17/04 Receiver's Initials: mb Time (Delivered): 11:45

Temperature Record

Cooler ID# (If Applicable)

11 °C / On Ice

Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svcs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

Sample(s) not received in a cooler.

Samples(s) received same day of sampling.

Temperature not taken:

Log-In by:

JP MF EM

OT _____



ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job: 04.13164

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
825668	TB-13	09/20/2004	09/21/2004
825669	SB-71 6'	09/20/2004	09/21/2004
825670	SB-49 2'	09/20/2004	09/21/2004
825671	SB-49 6'	09/20/2004	09/21/2004
825672	MW-9	09/21/2004	09/21/2004
825674	MW-7	09/21/2004	09/21/2004
825675	MW-20	09/21/2004	09/21/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert
Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825668	TB-13					09/20/2004 07:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	0.14	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.27		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825668	TB-13					09/20/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	0.76	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	0.31	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825668	TB-13					09/20/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
1-bromofluoromethane (surr)	105		%			09/28/2004	dmd		5771	SW 8260B
luene-d8 (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/28/2004	dmd		5771	SW 8260B
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825669	SB-71 6'					09/20/2004 11:20				
Extraction Prep, soil	COMPLETE					09/24/2004	acm	3193		IOWA-0A2
EXTRACTABLE HYDROCARBONS-SOI										
Total Extractable Hydrocarbo	10.3		mg/kg	10	10	10/06/2004	ljm	3193	5445	IA-0A2/S-8015

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825669	SB-71 6'					09/20/2004 11:20				
Diesel	<10		mg/kg	6.7	10	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Gasoline	<10		mg/kg	5.7	10	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
Motor Oil	10.3		mg/kg	7.1	10	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
N-Octacosane (Surr.)	86		%	1.0	1.0	10/06/2004	ljm	3193	5445	IA-OA2/S-8015
VOLATILES - BTEX (NONAQUEOUS)										
Benzene	<0.25		mg/kg	0.197	0.25	09/23/2004	ake		5822	IA-OA1
Toluene	<0.5		mg/kg	0.212	0.5	09/23/2004	ake		5822	IA-OA1
Ethylbenzene	<0.5		mg/kg	0.224	0.5	09/23/2004	ake		5822	IA-OA1
Xylenes, Total	<0.5		mg/kg	0.216	0.5	09/23/2004	ake		5822	IA-OA1
4-Bromofluorobenzene (surr.)	88.6		%	1	1	09/23/2004	ake		5822	IA-OA1

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825670	SB-49 2'					09/20/2004 11:55				
5035 VOC Preservation	Complete					09/20/2004	sm1		18	SW 846 - 5035
Solids, Total	95.88		%	0.01	0.01	09/22/2004	sas		2768	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	21.0		ug/kg dw	8.3	25	09/29/2004	mnk		1056	SW 8260B
Benzene	0.89		ug/kg dw	0.57	1.72	09/29/2004	mnk		1056	SW 8260B
Bromobenzene	<0.73		ug/kg dw	0.73	2.19	09/29/2004	mnk		1056	SW 8260B
Bromochloromethane	<0.99		ug/kg dw	0.99	2.97	09/29/2004	mnk		1056	SW 8260B
Bromodichloromethane	<2.35		ug/kg dw	2.35	7.04	09/29/2004	mnk		1056	SW 8260B

ANALYTICAL REPORT

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10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825670	SB-49 2'					09/20/2004 11:55				
Bromoform	<3.49		ug/kg dw	3.49	10.4	09/29/2004	mmk		1056	SW 8260B
Bromomethane	<5.11		ug/kg dw	5.11	15.1	09/29/2004	mmk		1056	SW 8260B
Methyl ethyl ketone (MEK)	6.35		ug/kg dw	0.89	2.09	09/29/2004	mmk		1056	SW 8260B
n-Butylbenzene	<5.2		ug/kg dw	0.49	5.2	09/29/2004	mmk		1056	SW 8260B
sec-Butylbenzene	<5.2		ug/kg dw	1.51	5.2	09/29/2004	mmk		1056	SW 8260B
tert-Butylbenzene	<5.2		ug/kg dw	0.5	5.2	09/29/2004	mmk		1056	SW 8260B
Carbon tetrachloride	<6.3		ug/kg dw	6.3	18.8	09/29/2004	mmk		1056	SW 8260B
Chlorobenzene	<0.443		ug/kg dw	0.443	1.330	09/29/2004	mmk		1056	SW 8260B
Chlorodibromomethane	<1.46		ug/kg dw	1.46	4.38	09/29/2004	mmk		1056	SW 8260B
Chloroethane	<0.73		ug/kg dw	0.73	2.19	09/29/2004	mmk		1056	SW 8260B
Chloroform	<0.89		ug/kg dw	0.89	2.66	09/29/2004	mmk		1056	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/29/2004	mmk		1056	SW 8260B
Chlorotoluene	<0.68		ug/kg dw	0.68	2.03	09/29/2004	mmk		1056	SW 8260B
4-Chlorotoluene	<0.57		ug/kg dw	0.57	1.72	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromo-3-chloropropane	<10		ug/kg dw	10	31	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromoethane (EDB)	<3.08		ug/kg dw	3.08	9.23	09/29/2004	mmk		1056	SW 8260B
Dibromomethane	<0.78		ug/kg dw	0.78	2.35	09/29/2004	mmk		1056	SW 8260B
1,2-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/29/2004	mmk		1056	SW 8260B
1,3-Dichlorobenzene	<1.1		ug/kg dw	1.1	3.4	09/29/2004	mmk		1056	SW 8260B
1,4-Dichlorobenzene	<0.68		ug/kg dw	0.68	2.03	09/29/2004	mmk		1056	SW 8260B
Dichlorodifluoromethane	<0.99		ug/kg dw	0.99	2.97	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethane	<0.83		ug/kg dw	0.83	2.5	09/29/2004	mmk		1056	SW 8260B
1,2-Dichloroethane	<1.1		ug/kg dw	1.1	3.4	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethene	<0.349		ug/kg dw	0.349	1.04	09/29/2004	mmk		1056	SW 8260B
cis-1,2-Dichloroethene	<0.99		ug/kg dw	0.99	2.97	09/29/2004	mmk		1056	SW 8260B
trans-1,2-Dichloroethene	<0.78		ug/kg dw	0.78	2.35	09/29/2004	mmk		1056	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825670	SB-49 2'					09/20/2004 11:55				
1,2-Dichloropropane	<0.45		ug/kg dw	0.45	1.35	09/29/2004	mmk		1056	SW 8260B
1,3-Dichloropropane	<0.89		ug/kg dw	0.89	2.66	09/29/2004	mmk		1056	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.13	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloropropene	<0.89		ug/kg dw	0.89	2.66	09/29/2004	mmk		1056	SW 8260B
cis-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.50	09/29/2004	mmk		1056	SW 8260B
trans-1,3-Dichloropropene	<0.78		ug/kg dw	0.78	2.35	09/29/2004	mmk		1056	SW 8260B
Ethylbenzene	0.58		ug/kg dw	0.57	1.72	09/29/2004	mmk		1056	SW 8260B
Hexachlorobutadiene	<3.02		ug/kg dw	3.02	9.07	09/29/2004	mmk		1056	SW 8260B
2-Hexanone	<0.57		ug/kg dw	0.57	2.09	09/29/2004	mmk		1056	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.13	09/29/2004	mmk		1056	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/29/2004	mmk		1056	SW 8260B
Methylene chloride	<52		ug/kg dw	7.3	52	09/29/2004	mmk		1056	SW 8260B
Methyl isobutyl ketone	<0.73		ug/kg dw	0.73	2.09	09/29/2004	mmk		1056	SW 8260B
MTBE	<4.95		ug/kg dw	4.95	14.8	09/29/2004	mmk		1056	SW 8260B
Naphthalene	<5.2		ug/kg dw	0.83	5.2	09/29/2004	mmk		1056	SW 8260B
n-Propylbenzene	<5.2		ug/kg dw	0.57	5.2	09/29/2004	mmk		1056	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.19	09/29/2004	mmk		1056	SW 8260B
1,1,1,2-Tetrachloroethane	<1.88		ug/kg dw	1.88	5.63	09/29/2004	mmk		1056	SW 8260B
1,1,1,2-Tetrachloroethane	<1.1		ug/kg dw	1.1	3.4	09/29/2004	mmk		1056	SW 8260B
Tetrachloroethene	1.32		ug/kg dw	0.68	2.03	09/29/2004	mmk		1056	SW 8260B
Toluene	1.10		ug/kg dw	0.73	2.19	09/29/2004	mmk		1056	SW 8260B
1,2,3-Trichlorobenzene	<5.2		ug/kg dw	1.7	5.2	09/29/2004	mmk		1056	SW 8260B
1,2,4-Trichlorobenzene	<5.2		ug/kg dw	0.33	5.2	09/29/2004	mmk		1056	SW 8260B
1,1,1-Trichloroethane	3.72		ug/kg dw	1.10	3.29	09/29/2004	mmk		1056	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/29/2004	mmk		1056	SW 8260B
Trichloroethylene	78.0		ug/kg dw	0.99	2.97	09/29/2004	mmk		1056	SW 8260B

ANALYTICAL REPORT

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 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825670	SB-49 2'					09/20/2004 11:55				
Trichlorofluoromethane	<0.46		ug/kg dw	0.46	1.40	09/29/2004	mnk		1056	SW 8260B
1,2,3-Trichloropropane	<0.94		ug/kg dw	0.94	2.8	09/29/2004	mnk		1056	SW 8260B
1,2,4-Trimethylbenzene	<5.2		ug/kg dw	1.5	5.2	09/29/2004	mnk		1056	SW 8260B
1,3,5-Trimethylbenzene	<5.2		ug/kg dw	2.4	5.2	09/29/2004	mnk		1056	SW 8260B
Vinyl Chloride	<0.78		ug/kg dw	0.78	2.35	09/29/2004	mnk		1056	SW 8260B
Xylenes, Total	<5.2		ug/kg dw	1.7	5.2	09/29/2004	mnk		1056	SW 8260B
4-Bromofluorobenzene (surr)	106		%			09/29/2004	mnk		1056	SW 8260B
Dibromofluoromethane (surr)	100		%			09/29/2004	mnk		1056	SW 8260B
Toluene-d8 (surr)	94		%			09/29/2004	mnk		1056	SW 8260B
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
325671	SB-49 6'					09/20/2004 12:30				
5035 VOC Preservation	Complete					09/20/2004	sml		18	SW 846 - 5035
Solids, Total	94.41		%	0.01	0.01	09/22/2004	sas		2768	SM 2540 G
VOA 8260 NON-AQUEOUS LRL										
Acetone	67.4		ug/kg dw	8.5	25	09/29/2004	mnk		1056	SW 8260B
Benzene	2.58		ug/kg dw	0.58	1.75	09/29/2004	mnk		1056	SW 8260B
Bromobenzene	<0.74		ug/kg dw	0.74	2.22	09/29/2004	mnk		1056	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.02	09/29/2004	mnk		1056	SW 8260B
Bromodichloromethane	<2.38		ug/kg dw	2.38	7.15	09/29/2004	mnk		1056	SW 8260B
Bromoform	<3.55		ug/kg dw	3.55	10.6	09/29/2004	mnk		1056	SW 8260B

ANALYTICAL REPORT

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10/12/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825671	SB-49 6'					09/20/2004 12:30				
Bromomethane	<5.19		ug/kg dw	5.19	15.4	09/29/2004	mmk		1056	SW 8260B
Methyl ethyl ketone (MEK)	8.45		ug/kg dw	0.90	2.12	09/29/2004	mmk		1056	SW 8260B
n-Butylbenzene	<5.3		ug/kg dw	0.50	5.3	09/29/2004	mmk		1056	SW 8260B
sec-Butylbenzene	<5.3		ug/kg dw	1.54	5.3	09/29/2004	mmk		1056	SW 8260B
tert-Butylbenzene	<5.3		ug/kg dw	0.5	5.3	09/29/2004	mmk		1056	SW 8260B
Carbon tetrachloride	<6.4		ug/kg dw	6.4	19.1	09/29/2004	mmk		1056	SW 8260B
Chlorobenzene	<0.450		ug/kg dw	0.450	1.350	09/29/2004	mmk		1056	SW 8260B
Chlorodibromomethane	<1.48		ug/kg dw	1.48	4.45	09/29/2004	mmk		1056	SW 8260B
Chloroethane	<0.74		ug/kg dw	0.74	2.22	09/29/2004	mmk		1056	SW 8260B
Chloroform	<0.90		ug/kg dw	0.90	2.70	09/29/2004	mmk		1056	SW 8260B
Chloromethane	<0.5		ug/kg dw	0.5	1.6	09/29/2004	mmk		1056	SW 8260B
2-Chlorotoluene	<0.69		ug/kg dw	0.69	2.07	09/29/2004	mmk		1056	SW 8260B
4-Chlorotoluene	<0.58		ug/kg dw	0.58	1.75	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	32	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromoethane (EDB)	<3.12		ug/kg dw	3.12	9.37	09/29/2004	mmk		1056	SW 8260B
Dibromomethane	<0.79		ug/kg dw	0.79	2.38	09/29/2004	mmk		1056	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/29/2004	mmk		1056	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.5	09/29/2004	mmk		1056	SW 8260B
1,4-Dichlorobenzene	<0.69		ug/kg dw	0.69	2.07	09/29/2004	mmk		1056	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.02	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethane	<0.85		ug/kg dw	0.85	2.5	09/29/2004	mmk		1056	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.5	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethene	<0.355		ug/kg dw	0.355	1.06	09/29/2004	mmk		1056	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.02	09/29/2004	mmk		1056	SW 8260B
trans-1,2-Dichloroethene	<0.79		ug/kg dw	0.79	2.38	09/29/2004	mmk		1056	SW 8260B
1,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.37	09/29/2004	mmk		1056	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
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10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825671	SB-49 6'					09/20/2004 12:30				
1,3-Dichloropropane	<0.90		ug/kg dw	0.90	2.70	09/29/2004	mmk		1056	SW 8260B
2,2-Dichloropropane	<0.38		ug/kg dw	0.38	1.14	09/29/2004	mmk		1056	SW 8260
1,1-Dichloropropene	<0.90		ug/kg dw	0.90	2.70	09/29/2004	mmk		1056	SW 8260B
cis-1,3-Dichloropropene	<0.85		ug/kg dw	0.85	2.54	09/29/2004	mmk		1056	SW 8260B
trans-1,3-Dichloropropene	<0.79		ug/kg dw	0.79	2.38	09/29/2004	mmk		1056	SW 8260B
Ethylbenzene	<0.58		ug/kg dw	0.58	1.75	09/29/2004	mmk		1056	SW 8260B
Hexachlorobutadiene	<3.07		ug/kg dw	3.07	9.22	09/29/2004	mmk		1056	SW 8260B
2-Hexanone	<0.58		ug/kg dw	0.58	2.12	09/29/2004	mmk		1056	SW 8260B
Isopropylbenzene	<0.38		ug/kg dw	0.38	1.14	09/29/2004	mmk		1056	SW 8260B
p-Isopropyltoluene	<0.5		ug/kg dw	0.5	1.6	09/29/2004	mmk		1056	SW 8260B
Methylene chloride	<53		ug/kg dw	7.4	53	09/29/2004	mmk		1056	SW 8260B
ethyl isobutyl ketone	<0.74		ug/kg dw	0.74	2.12	09/29/2004	mmk		1056	SW 8260B
3E	<5.03		ug/kg dw	5.03	15.0	09/29/2004	mmk		1056	SW 8260B
naphthalene	<5.3		ug/kg dw	0.85	5.3	09/29/2004	mmk		1056	SW 8260B
n-Propylbenzene	<5.3		ug/kg dw	0.58	5.3	09/29/2004	mmk		1056	SW 8260B
Styrene	<0.40		ug/kg dw	0.40	1.21	09/29/2004	mmk		1056	SW 8260B
1,1,1,2-Tetrachloroethane	<1.91		ug/kg dw	1.91	5.72	09/29/2004	mmk		1056	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.5	09/29/2004	mmk		1056	SW 8260B
Tetrachloroethene	2.76		ug/kg dw	0.69	2.07	09/29/2004	mmk		1056	SW 8260B
Toluene	1.41		ug/kg dw	0.74	2.22	09/29/2004	mmk		1056	SW 8260B
1,2,3-Trichlorobenzene	<5.3		ug/kg dw	1.7	5.3	09/29/2004	mmk		1056	SW 8260B
1,2,4-Trichlorobenzene	<5.3		ug/kg dw	0.34	5.3	09/29/2004	mmk		1056	SW 8260B
1,1,1-Trichloroethane	10.9		ug/kg dw	1.11	3.34	09/29/2004	mmk		1056	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	3.8	09/29/2004	mmk		1056	SW 8260B
Trichloroethylene	172		ug/kg dw	1.0	3.02	09/29/2004	mmk		1056	SW 8260B
Trichlorofluoromethane	<0.47		ug/kg dw	0.47	1.42	09/29/2004	mmk		1056	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825671	SB-49 6'					09/20/2004 12:30				
1,2,3-Trichloropropane	<0.95		ug/kg dw	0.95	2.9	09/29/2004	mmk		1056	SW 8260B
1,2,4-Trimethylbenzene	<5.3		ug/kg dw	1.5	5.3	09/29/2004	mmk		1056	SW 8260B
1,3,5-Trimethylbenzene	<5.3		ug/kg dw	2.4	5.3	09/29/2004	mmk		1056	SW 8260B
Vinyl Chloride	<0.79		ug/kg dw	0.79	2.38	09/29/2004	mmk		1056	SW 8260B
Xylenes, Total	<5.3		ug/kg dw	1.7	5.3	09/29/2004	mmk		1056	SW 8260B
4-Bromofluorobenzene (surr)	103		%			09/29/2004	mmk		1056	SW 8260B
Dibromofluoromethane (surr)	98		%			09/29/2004	mmk		1056	SW 8260B
Toluene-d8 (surr)	96		%			09/29/2004	mmk		1056	SW 8260B

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825672	MW-9					09/21/2004 12:30				
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/08/2004	kak	236	652	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/08/2004	kak	236	652	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/08/2004	kak	236	652	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/08/2004	kak	236	652	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/08/2004	kak	236	652	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/08/2004	kak	236	652	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/08/2004	kak	236	652	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/08/2004	kak	236	652	SW 8082

ANALYTICAL REPORT

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 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825672	SAMPLE DESCRIPTION MW-9					DATE-TIME TAKEN 09/21/2004 12:30				
Decachlorobiphenyl (Surr.)	20		%			10/08/2004	kak	236	652	SW 8082
Tetrachlorometaxylene (Surr.)	57		%			10/08/2004	kak	236	652	SW 8082
Extraction Prep	COMPLETE					09/23/2004	acm	2705		IOWA-0A2
EXTRACTABLE HYDROCARBONS-WAT										
Total Extractable Hydrocarbo	<380		ug/L	380	380	10/06/2004	ljm	2705	4723	IA-OA2/S-8015
Diesel	<380		ug/L	85	380	10/06/2004	ljm	2705	4723	IA-OA2/S-8015
Gasoline	<380		ug/L	129	380	10/06/2004	ljm	2705	4723	IA-OA2/S-8015
Motor Oil	<380		ug/L	84	380	10/06/2004	ljm	2705	4723	IA-OA2/S-8015
N-Octacosane (Surr.)	87		%	100	100	10/06/2004	ljm	2705	4723	IA-OA2/S-8015

SAMPLE NO. 825674	SAMPLE DESCRIPTION MW-7					DATE-TIME TAKEN 09/21/2004 11:30				
Cyanide, Total mdl	0.0952		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals	COMPLETE					09/27/2004	llw		1695	
Barium, Diss (ICP) mdl	0.183		mg/L	0.0013	0.0047	09/27/2004	llw		6407	SW 6010B
Chromium, Diss (ICP) mdl	<0.0026		mg/L	0.0026	0.0092	09/27/2004	llw		6423	SW 6010B
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	09/27/2004	llw		6421	SW 6010B
Arsenic, Diss (GFAA) mdl	0.00072		mg/L	0.00036	0.0013	09/24/2004	heh		51	SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014		mg/L	0.00014	0.00050	09/24/2004	heh		39	SW 7131A
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	09/27/2004	heh		44	SW 7421
Mercury, diss mdl	0.046	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825674	SAMPLE DESCRIPTION MW-7				DATE-TIME TAKEN 09/21/2004 11:30					
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	09/28/2004	mrm		39	SW 7740
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

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 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825674	MW-7					09/21/2004 11:30				
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	15.7		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	12.0		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	0.61		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	74.8		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825674	MW-7					09/21/2004 11:30				
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	19.9		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	30.6		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	0.31		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	59.4		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	104		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	93		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

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10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825674	MW-7					09/21/2004 11:30				
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	4.08	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
benzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
benzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	2.58		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825674	MW-7					09/21/2004 11:30				
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	68		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	61		%	100	100	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825674	MW-7					09/21/2004 11:30				
Terphenyl-d14 (surr)	75		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	26	L, OOC	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	40		%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	94		%	100	100	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/08/2004	kak	236	653	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/08/2004	kak	236	653	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/08/2004	kak	236	653	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/08/2004	kak	236	653	SW 8082

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825674	SAMPLE DESCRIPTION MW-7					DATE-TIME TAKEN 09/21/2004 11:30				
PCB-1248	<0.065		ug/L	0.065	0.20	10/08/2004	kak	236	653	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/08/2004	kak	236	653	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/08/2004	kak	236	653	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/08/2004	kak	236	653	SW 8082
Decachlorobiphenyl (Surr.)	37		%			10/08/2004	kak	236	653	SW 8082
Tetrachlorometaxylene (Surr.)	61		%			10/08/2004	kak	236	653	SW 8082
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN							
825675	MW-20	09/21/2004 12:00							
Cyanide, Total mdl	0.0948	mg/L	0.0022	0.0078	10/04/2004	lbb	1402	EPA 335.4	
Dissolved ICP Metals	COMPLETE				09/27/2004	llw	1695		
Barium, Diss (ICP) mdl	0.184	mg/L	0.0013	0.0047	09/27/2004	llw	6407	SW 6010B	
Chromium, Diss (ICP) mdl	<0.0026	mg/L	0.0026	0.0092	09/27/2004	llw	6423	SW 6010B	
Silver, Diss (ICP) mdl	<0.0038	mg/L	0.0038	0.0136	09/27/2004	llw	6421	SW 6010B	
Arsenic, Diss (GFAA) mdl	0.00070	mg/L	0.00036	0.0013	09/24/2004	heh	51	SW 7060A	
Cadmium, Diss (GFAA) mdl	<0.00014	mg/L	0.00014	0.00050	09/24/2004	heh	39	SW 7131A	
Lead, Diss (GFAA) mdl	<0.00050	mg/L	0.00050	0.0018	09/27/2004	heh	44	SW 7421	
Mercury, diss mdl	0.051	B	ug/L	0.017	0.061	10/06/2004	heh	800	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015	mg/L	0.0015	0.0053	09/28/2004	mrn	39	SW 7740	
Prep BNA (MDL)	Complete				09/28/2004	scb	447	SW 3510	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825675	MW-20					09/21/2004 12:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
i-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.36		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825675	MW-20					09/21/2004 12:00				
1,1-Dichloroethane	15.3		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	11.9		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	0.63		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	73.5		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	0.19	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825675	MW-20					09/21/2004 12:00				
Tetrachloroethene	20.3		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	30.2		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	0.15		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	57.8		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
bromofluoromethane (surr)	102		%			09/28/2004	dmd		5771	SW 8260B
luene-d8 (surr)	94		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	87		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

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 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
825675	MW-20								09/21/2004 12:00	
Bis (2-chloroethyl) ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis (2-chloroethoxy) methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis (2-ethylhexyl) phthalate	4.12	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis (2chloroisopropyl) ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
Dibenzo (a, h) anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	2.87		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825675	SAMPLE DESCRIPTION MW-20								DATE-TIME TAKEN 09/21/2004 12:00	
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Indeno (1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	67		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	61		%	100	100	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	79		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
825675	MW-20					09/21/2004 12:00				
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	26	L, OOC	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	38	OOO	%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	95		%	100	100	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/08/2004	kak	236	653	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/08/2004	kak	236	653	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/08/2004	kak	236	653	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/08/2004	kak	236	653	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/08/2004	kak	236	653	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/08/2004	kak	236	653	SW 8082

L - LCS recovery is outside of control limits.

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 825675	SAMPLE DESCRIPTION MW-20									DATE-TIME TAKEN 09/21/2004 12:00
PCB-1260	<0.091		ug/L	0.091	0.27	10/08/2004	kak	236	653	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/08/2004	kak	236	653	SW 8082
Decachlorobiphenyl (Surr.)	22		%			10/08/2004	kak	236	653	SW 8082
Tetrachlorometaxylene (Surr.)	62		%			10/08/2004	kak	236	653	SW 8082
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1402	247.5	ug/L	263	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	259	105		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	262	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	261	106		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	129	104		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	128	103		10/04/2004
Dissolved ICP Metals		1695	1.0		1.0	100		09/27/2004
Barium, Diss (ICP) mdl		6407	5.00	mg/L	4.92	98		09/27/2004
Barium, Diss (ICP) mdl		6407	5.00	mg/L	4.90	98		09/27/2004
Chromium, Diss (ICP) mdl		6423	5.00	mg/L	5.02	100		09/27/2004
Chromium, Diss (ICP) mdl		6423	5.00	mg/L	5.06	101		09/27/2004
Silver, Diss (ICP) mdl		6421	1.000	mg/L	0.9694	97		09/27/2004
Silver, Diss (ICP) mdl		6421	1.000	mg/L	0.9786	98		09/27/2004
Arsenic, Diss (GFAA) mdl		51	0.0150	mg/L	0.01537	102		09/24/2004
Cadmium, Diss (GFAA) mdl		39	0.0010	mg/L	0.00098	98		09/24/2004
Lead, Diss (GFAA) mdl		44	0.0250	mg/L	0.02577	103		09/27/2004
Mercury, diss mdl		800	1.00	ug/L	0.9804	98		10/06/2004
Selenium, Diss (GFAA) mdl		39	0.0375	mg/L	0.0403	108		09/28/2004
VOLATILE COMPOUNDS								
Benzene		5771	50.0	ug/L	52.3	105		09/28/2004
Chlorobenzene		5771	50.0	ug/L	50.6	101		09/28/2004
1,1-Dichloroethene		5771	50.0	ug/L	54.4	109		09/28/2004
Ethylbenzene		5771	50.0	ug/L	49.8	100		09/28/2004
MTBE		5771	50.0	ug/L	42.3	85		09/28/2004
1,2,4-Trimethylbenzene		5771	50.0	ug/L	50.4	101		09/28/2004
Toluene		5771	50.0	ug/L	51.3	103		09/28/2004
1,3,5-Trimethylbenzene		5771	50.0	ug/L	51.6	103		09/28/2004
Trichloroethylene		5771	50.0	ug/L	51.2	102		09/28/2004
Xylenes, Total		5771	150.0	ug/L	156	104		09/28/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Dibromofluoromethane (surr)		5771	100	%	96	96		09/28/2004
Toluene-d8 (surr)		5771	100	%	98	98		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	105	105		09/28/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1056	50.0	ug/L	50.8	102		09/29/2004
Bromoform		1056	50.0	ug/L	54.0	108		09/29/2004
Chlorobenzene		1056	50.0	ug/L	53.8	108		09/29/2004
1,1-Dichloroethane		1056	50.0	ug/L	49.0	98		09/29/2004
1,1-Dichloroethene		1056	50.0	ug/L	49.7	99		09/29/2004
Ethylbenzene		1056	50.0	ug/L	58.0	116		09/29/2004
MTBE		1056	50.0	ug/L	47.3	95		09/29/2004
1,1,2,2-Tetrachloroethane		1056	50.0	ug/L	48.1	96		09/29/2004
Toluene		1056	50.0	ug/L	51.1	102		09/29/2004
Trichloroethylene		1056	50.0	ug/L	55.9	112		09/29/2004
1,2,4-Trimethylbenzene		1056	50.0	ug/L	58.4	117		09/29/2004
1,3,5-Trimethylbenzene		1056	50.0	ug/L	59.7	119		09/29/2004
Vinyl Chloride		1056	50.0	ug/L	45.2	90		09/29/2004
Xylenes, Total		1056	150.0	ug/L	166	111		09/29/2004
4-Bromofluorobenzene (surr)		1056	100	%	104	104		09/29/2004
Dibromofluoromethane (surr)		1056	100	%	94	94		09/29/2004
Toluene-d8 (surr)		1056	100	%	95	95		09/29/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		849	50.0	ug/L	49.3	99		10/01/2004
1,4-Dichlorobenzene		849	50.0	ug/L	49.6	99		10/01/2004
2,4-Dinitrotoluene		849	50.0	ug/L	54.2	108		10/01/2004
N-Nitrosodi-n-propylamine		849	50.0	ug/L	50.9	102		10/01/2004
Pyrene		849	50.0	ug/L	50.0	100		10/01/2004
1,2,4-Trichlorobenzene		849	50.0	ug/L	49.0	98		10/01/2004
Nitrobenzene-d5 (surr)		849	50.0	ug/L	51.6	103		10/01/2004
2-Fluorobiphenyl (surr)		849	50.0	ug/L	49.0	98		10/01/2004
Terphenyl-d14 (surr)		849	50.0	ug/L	49.3	99		10/01/2004

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
4-Chloro-3-methylphenol		849	50.0	ug/L	51.5	103		10/01/2004
2-chlorophenol		849	50.0	ug/L	50.4	101		10/01/2004
4-Nitrophenol		849	50.0	ug/L	53.6	107		10/01/2004
Pentachlorophenol		849	50.0	ug/L	50.7	101		10/01/2004
Phenol		849	50.0	ug/L	50.9	102		10/01/2004
Phenol-d6 (surr)		849	100.0	ug/L	101	101		10/01/2004
2-Fluorophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
Tribromophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
PCBs Wisconsin Aqueous					101	101		10/01/2004
PCB-1248		652	0.64	ppm	0.62	97		10/07/2004
Decachlorobiphenyl (Surr.)		652	100	%	105	105		10/07/2004
Tetrachlorometaxylene (Surr.)		652	100	%	95	95		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248		652	0.64	ppm	0.62	97		10/08/2004
Decachlorobiphenyl (Surr.)		652	100	%	86	86		10/08/2004
Tetrachlorometaxylene (Surr.)		652	100	%	96	96		10/08/2004
PCBs Wisconsin Aqueous								
PCB-1248		653	0.64	ppm	0.62	97		10/08/2004
Decachlorobiphenyl (Surr.)		653	100	%	86	86		10/08/2004
Tetrachlorometaxylene (Surr.)		653	100	%	96	96		10/08/2004
PCBs Wisconsin Aqueous								
PCB-1248		653	0.64	ppm	0.64	100		10/08/2004
Decachlorobiphenyl (Surr.)		653	100	%	88	88		10/08/2004
Tetrachlorometaxylene (Surr.)		653	100	%	100	100		10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Diesel		4723	5,000	ppm	5,070	101		10/05/2004
Gasoline		4723	5,000	ppm	4,640	93		10/05/2004
Motor Oil		4723	5,000	ppm	4,630	93		10/05/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Diesel		5445	2,500	mg/kg	2,400	96		10/06/2004
Gasoline		5445	2,500	mg/kg	2,220	89		10/06/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Motor Oil		5445	2,500	mg/kg	2,420	97		10/06/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	50.0	mg/kg	49.0	98		09/23/2004
Toluene		5822	50.0	mg/kg	48.9	98		09/23/2004
Ethylbenzene		5822	50.0	mg/kg	48.6	97		09/23/2004
Xylenes, Total		5822	100	mg/kg	97.2	97		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	97.9	98		09/23/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1402	<0.0022		mg/L	0.0022	0.0078	10/04/2004
Dissolved ICP Metals		1695	COMPLETE					09/27/2004
Barium, Diss (ICP) mdl		6407	<0.0013		mg/L	0.0013	0.0047	09/27/2004
Chromium, Diss (ICP) mdl		6423	<0.0026		mg/L	0.0026	0.0092	09/27/2004
Silver, Diss (ICP) mdl		6421	<0.0038		mg/L	0.0038	0.0136	09/27/2004
Arsenic, Diss (GFAA) mdl		51	<0.00036		mg/L	0.00036	0.0013	09/24/2004
Cadmium, Diss (GFAA) mdl		39	<0.00014		mg/L	0.00014	0.00050	09/24/2004
Lead, Diss (GFAA) mdl		44	<0.00050		mg/L	0.00050	0.0018	09/27/2004
Mercury, diss mdl		800	0.037	B	ug/L	0.017	0.061	10/06/2004
Selenium, Diss (GFAA) mdl		39	<0.0015		mg/L	0.0015	0.0053	09/28/2004
VOLATILE COMPOUNDS								
Benzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromodichloromethane		5771	<0.46		ug/L	0.46	1.4	09/28/2004
Bromoform		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Bromomethane		5771	<0.62		ug/L	0.62	1.9	09/28/2004
Bromobenzene		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Carbon disulfide		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromochloromethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
Carbon tetrachloride		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dibromomethane		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Chlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
n-Butylbenzene		5771	0.13	B	ug/L	0.13	0.39	09/28/2004
sec-Butylbenzene		5771	<0.16		ug/L	0.16	0.48	09/28/2004
tert-Butylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloroethane		5771	<0.12		ug/L	0.12	0.36	09/28/2004
Chloroform		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloromethane		5771	<0.24		ug/L	0.24	0.72	09/28/2004
2-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
4-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chlorodibromomethane		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dibromo-3-chloropropane		5771	<0.30		ug/L	0.30	0.90	09/28/2004
1,2-Dibromoethane (EDB)		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,3-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,4-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dichlorodifluoromethane		5771	<0.40		ug/L	0.4	1.2	09/28/2004
1,1-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Di-Isopropylether		5771	<0.32		ug/L	0.32	0.96	09/28/2004
1,3-Dichloropropane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
2,2-Dichloropropane		5771	<0.73		ug/L	0.73	2.2	09/28/2004
1,1-Dichloropropene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
trans-1,2-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
cis-1,2-Dichloroethene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
1,2-Dichloropropane		5771	<0.12		ug/L	0.12	0.36	09/28/2004
cis-1,3-Dichloropropene		5771	<0.43		ug/L	0.43	1.2	09/28/2004
trans-1,3-Dichloropropene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Hexachlorobutadiene		5771	0.47	B	ug/L	0.22	0.66	09/28/2004
Ethylbenzene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Isopropylbenzene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
p-Isopropyltoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Hexane		5771	0.23	B	ug/L	0.18	0.54	09/28/2004
MTBE		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Methylene chloride		5771	<0.63		ug/L	0.63	1.9	09/28/2004
Napthalene		5771	<0.86		ug/L	0.86	2.6	09/28/2004
n-Propylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Styrene		5771	<0.41		ug/L	0.41	1.2	09/28/2004
1,1,1,2-Tetrachloroethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
1,1,2,2-Tetrachloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2,3-Trichlorobenzene		5771	1.34	B	ug/L	0.40	1.2	09/28/2004
1,2,4-Trichlorobenzene		5771	0.61	B	ug/L	0.25	0.75	09/28/2004
Tetrachloroethene		5771	<0.37		ug/L	0.37	1.1	09/28/2004
1,2,3-Trichloropropane		5771	<0.49		ug/L	0.49	1.5	09/28/2004
1,2,4-Trimethylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Toluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004

QUALITY CONTROL REPORT BLANKS

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10/12/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,3,5-Trimethylbenzene		5771	<0.14		ug/L	0.14	0.42	09/28/2004
1,1,1-Trichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1,2-Trichloroethane		5771	<0.10		ug/L	0.10	0.3	09/28/2004
Trichloroethylene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Trichlorofluoromethane		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Vinyl chloride		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Xylenes, Total		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Dibromofluoromethane (surr)		5771	98.0		%			09/28/2004
Toluene-d8 (surr)		5771	93.0		%			09/28/2004
4-Bromofluorobenzene (surr)		5771	91.0		%			09/28/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone	1056		<8.0		ug/kg	8.0	24	09/29/2004
Benzene	1056		<0.55		ug/kg	0.55	1.65	09/29/2004
Bromobenzene	1056		<0.70		ug/kg	0.70	2.10	09/29/2004
Bromochloromethane	1056		<0.95		ug/kg	0.95	2.85	09/29/2004
Bromodichloromethane	1056		<2.25		ug/kg	2.25	6.75	09/29/2004
Bromoform	1056		<3.35		ug/kg	3.35	10.0	09/29/2004
Bromomethane	1056		<4.90		ug/kg	4.90	14.5	09/29/2004
Methyl ethyl ketone (MEK)	1056		<0.85		ug/kg	0.85	2.00	09/29/2004
n-Butylbenzene	1056		<5.0		ug/kg	0.47	5.0	09/29/2004
sec-Butylbenzene	1056		<5.0		ug/kg	1.45	5.0	09/29/2004
tert-Butylbenzene	1056		<5.0		ug/kg	0.5	5.0	09/29/2004
Carbon tetrachloride	1056		<6.0		ug/kg	6.0	18.0	09/29/2004
Chlorobenzene	1056		<0.425		ug/kg	0.425	1.275	09/29/2004
Chlorodibromomethane	1056		<1.40		ug/kg	1.40	4.20	09/29/2004
Chloroethane	1056		<0.70		ug/kg	0.70	2.10	09/29/2004
Chloroform	1056		<0.85		ug/kg	0.85	2.55	09/29/2004
Chloromethane	1056		<0.5		ug/kg	0.5	1.5	09/29/2004
2-Chlorotoluene	1056		<0.65		ug/kg	0.65	1.95	09/29/2004
4-Chlorotoluene	1056		<0.55		ug/kg	0.55	1.65	09/29/2004
1,2-Dibromo-3-chloropropane	1056		<10		ug/kg	10	30	09/29/2004
1,2-Dibromoethane (EDB)	1056		<2.95		ug/kg	2.95	8.85	09/29/2004
Dibromomethane	1056		<0.75		ug/kg	0.75	2.25	09/29/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,2-Dichlorobenzene		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,3-Dichlorobenzene		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,4-Dichlorobenzene		1056	<0.65		ug/kg	0.65	1.95	09/29/2004
Dichlorodifluoromethane		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
1,1-Dichloroethane		1056	<0.80		ug/kg	0.80	2.4	09/29/2004
1,2-Dichloroethane		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,1-Dichloroethene		1056	<0.335		ug/kg	0.335	1.00	09/29/2004
cis-1,2-Dichloroethene		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
trans-1,2-Dichloroethene		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
1,2-Dichloropropane		1056	<0.43		ug/kg	0.43	1.29	09/29/2004
1,3-Dichloropropane		1056	<0.85		ug/kg	0.85	2.55	09/29/2004
2,2-Dichloropropane		1056	<0.36		ug/kg	0.36	1.08	09/29/2004
1,1-Dichloropropene		1056	<0.85		ug/kg	0.85	2.55	09/29/2004
cis-1,3-Dichloropropene		1056	<0.80		ug/kg	0.80	2.40	09/29/2004
trans-1,3-Dichloropropene		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
Ethylbenzene		1056	<0.55		ug/kg	0.55	1.65	09/29/2004
Hexachlorobutadiene		1056	<2.90		ug/kg	2.90	8.70	09/29/2004
2-Hexanone		1056	<0.55		ug/kg	0.55	2.00	09/29/2004
Isopropylbenzene		1056	<0.36		ug/kg	0.36	1.08	09/29/2004
p-Isopropyltoluene		1056	<0.5		ug/kg	0.5	1.5	09/29/2004
Methylene chloride		1056	<50		ug/kg	7.0	50	09/29/2004
Methyl isobutyl ketone		1056	<0.70		ug/kg	0.70	2.00	09/29/2004
MTBE		1056	<4.75		ug/kg	4.75	14.2	09/29/2004
Naphthalene		1056	<5.0		ug/kg	0.80	5.0	09/29/2004
n-Propylbenzene		1056	<5.0		ug/kg	0.55	5.0	09/29/2004
Styrene		1056	<0.38		ug/kg	0.38	1.14	09/29/2004
1,1,1,2-Tetrachloroethane		1056	<1.80		ug/kg	1.80	5.40	09/29/2004
1,1,2,2-Tetrachloroethane		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
Tetrachloroethene		1056	<0.65		ug/kg	0.65	1.95	09/29/2004
Toluene		1056	<0.70		ug/kg	0.70	2.10	09/29/2004
1,2,3-Trichlorobenzene		1056	<5.0		ug/kg	1.6	5.0	09/29/2004
1,2,4-Trichlorobenzene		1056	<5.0		ug/kg	0.32	5.0	09/29/2004
1,1,1-Trichloroethane		1056	<1.05		ug/kg	1.05	3.15	09/29/2004

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1,1,2-Trichloroethane		1056	<1.2		ug/kg	1.2	3.6	09/29/2004
Trichloroethylene		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
Trichlorofluoromethane		1056	<0.44		ug/kg	0.44	1.34	09/29/2004
1,2,3-Trichloropropane		1056	<0.90		ug/kg	0.90	2.7	09/29/2004
1,2,4-Trimethylbenzene		1056	<5.0		ug/kg	1.4	5.0	09/29/2004
1,3,5-Trimethylbenzene		1056	<5.0		ug/kg	2.3	5.0	09/29/2004
Vinyl Chloride		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
Xylenes, Total		1056	<5.0		ug/kg	1.6	5.0	09/29/2004
4-Bromofluorobenzene (surr)		1056	106		%			09/29/2004
Dibromofluoromethane (surr)		1056	95		%			09/29/2004
Toluene-d8 (surr)		1056	98		%			09/29/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	<2.9		ug/L	2.9	8.7	10/01/2004
Acenaphthylene	447	849	<2.52		ug/L	2.52	7.56	10/01/2004
Anthracene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
Benzidine	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Benzo(a)anthracene	447	849	<2.72		ug/L	2.72	8.16	10/01/2004
Benzo(b)fluoranthene	447	849	<2.57		ug/L	2.57	7.71	10/01/2004
Benzo(k)fluoranthene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Benzo(a)pyrene	447	849	<2.47		ug/L	2.47	7.41	10/01/2004
Benzo(ghi)perylene	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Benzyl Alcohol	447	849	<2.5		ug/L	2.5	7.5	10/01/2004
Benzyl butyl phthalate	447	849	<2.73		ug/L	2.73	8.19	10/01/2004
Bis(2-chloroethyl)ether	447	849	<2.17		ug/L	2.17	6.51	10/01/2004
Bis(2-chloroethoxy)methane	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Bis(2-ethylhexyl)phthalate	447	849	4.55	B	ug/L	3.05	9.15	10/01/2004
Bis(2chloroisopropyl)ether	447	849	<2.19		ug/L	2.19	6.57	10/01/2004
4-Bromophenyl phenyl ether	447	849	<3.27		ug/L	3.27	9.81	10/01/2004
4-Chloroaniline	447	849	<1.69		ug/L	1.69	5.07	10/01/2004
2-Chloronaphthalene	447	849	<2.32		ug/L	2.32	6.96	10/01/2004
4-Chlorophenylphenyl ether	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
Chrysene	447	849	<2.67		ug/L	2.67	8.01	10/01/2004
Dibenzo(a,h)anthracene	447	849	<2.73		ug/L	2.73	8.19	10/01/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dibenzofuran	447	849	<1.97		ug/L	1.97	5.91	10/01/2004
Di-n-butylphthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,3-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,4-Dichlorobenzene	447	849	<2.1		ug/L	2.1	6.3	10/01/2004
3,3-Dichlorobenzidine	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Diethyl phthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Diphenylhydrazine	447	849	<2.36		ug/L	2.36	7.08	10/01/2004
Dimethyl phthalate	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
2,4-Dinitrotoluene	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2,6-Dinitrotoluene	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Di-n-octylphthalate	447	849	<2.82		ug/L	2.82	8.46	10/01/2004
Fluoranthene	447	849	<2.08		ug/L	2.08	6.24	10/01/2004
Fluorene	447	849	<2.13		ug/L	2.13	6.39	10/01/2004
Hexachlorobenzene	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Hexachloro-1,3-butadiene	447	849	<2.41		ug/L	2.41	7.23	10/01/2004
Hexachlorocyclopentadiene	447	849	<1.78		ug/L	1.78	5.34	10/01/2004
Hexachloroethane	447	849	<1.94		ug/L	1.94	5.82	10/01/2004
Indeno (1,2,3-cd)pyrene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Isophorone	447	849	<2.37		ug/L	2.37	7.11	10/01/2004
2-Methylnaphthalene	447	849	<2.23		ug/L	2.23	6.69	10/01/2004
Naphthalene	447	849	<2.68		ug/L	2.68	8.04	10/01/2004
2-Nitroaniline	447	849	<2.25		ug/L	2.25	6.75	10/01/2004
3-Nitroaniline	447	849	<1.84		ug/L	1.84	5.52	10/01/2004
4-Nitroaniline	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
Nitrobenzene	447	849	<2.04		ug/L	2.04	6.12	10/01/2004
N-Nitrosodimethylamine	447	849	<2.01		ug/L	2.01	6.03	10/01/2004
N-Nitrosodiphenylamine	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
N-Nitrosodi-n-propylamine	447	849	<2.44		ug/L	2.44	7.32	10/01/2004
N-Nitrosodi-n-butylamine	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
N-Nitrosodiethylamine	447	849	<1.71		ug/L	1.71	5.13	10/01/2004
Phenanthrene	447	849	<2.56		ug/L	2.56	7.68	10/01/2004
N-Nitrosopyrrolidine	447	849	<2.55		ug/L	2.55	7.65	10/01/2004

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Pentachlorobenzene	447	849	<1.51		ug/L	1.51	4.53	10/01/2004
Pyrene	447	849	<2.8		ug/L	2.8	8.4	10/01/2004
Pyridine	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
1,2,4,5-Tetrachlorobenzene	447	849	<2.46		ug/L	2.46	7.38	10/01/2004
1,2,4-Trichlorobenzene	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Nitrobenzene-d5 (surr)	447	849	66.0		%	100	100	10/01/2004
2-Fluorobiphenyl (surr)	447	849	59.0		%	100	100	10/01/2004
Terphenyl-d14 (surr)	447	849	97.0		%	100	100	10/01/2004
Benzoic Acid	447	849	<10.0		ug/L	10.0	30.0	10/01/2004
4-Chloro-3-methylphenol	447	849	<2.7		ug/L	2.7	8.1	10/01/2004
2-chlorophenol	447	849	<2.48		ug/L	2.48	7.44	10/01/2004
Cresols, Total	447	849	<4.42		ug/L	4.42	13.3	10/01/2004
2,4-Dichlorophenol	447	849	<2.66		ug/L	2.66	7.98	10/01/2004
2,4-Dimethylphenol	447	849	<1.49		ug/L	1.49	4.47	10/01/2004
2,4-Dinitrophenol	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2-Methyl-4,6-dinitrophenol	447	849	<2.98		ug/L	2.98	8.94	10/01/2004
2-Nitrophenol	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
4-Nitrophenol	447	849	<1.8		ug/L	1.8	5.4	10/01/2004
2,5-Dinitrophenol	447	849	<4.21		ug/L	4.21	12.6	10/01/2004
Pentachlorophenol	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Phenol	447	849	<1.72		ug/L	1.72	5.16	10/01/2004
2,4,5-Trichlorophenol	447	849	<3.22		ug/L	3.22	9.66	10/01/2004
2,4,6-Trichlorophenol	447	849	<3.66		ug/L	3.66	11.0	10/01/2004
Phenol-d6 (surr)	447	849	25.0	OOC, L	%	100	100	10/01/2004
2-Fluorophenol (surr)	447	849	42.0		%	100	100	10/01/2004
Tribromophenol (surr)	447	849	97.0		%	100	100	10/01/2004
PCBs Wisconsin Aqueous								
PCB 1016	236	652	<0.10		ug/L	0.10	0.30	10/08/2004
PCB-1242	236	652	<0.085		ug/L	0.085	0.26	10/08/2004
PCB-1221	236	652	<0.49		ug/L	0.49	1.5	10/08/2004
PCB-1232	236	652	<0.027		ug/L	0.027	0.081	10/08/2004
PCB-1248	236	652	<0.065		ug/L	0.065	0.20	10/08/2004
PCB-1254	236	652	<0.098		ug/L	0.098	0.29	10/08/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCB-1260	236	652	<0.091		ug/L	0.091	0.27	10/08/2004
PCB-1268	236	652	<1.0		ug/L	1.0	1.0	10/08/2004
Decachlorobiphenyl (Surr.)	236	652	27		%			10/08/2004
Tetrachlorometaxylene (Surr.)	236	652	59		%			10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	2705	4724	<380		ug/L	380	380	10/06/2004
Diesel	2705	4724	<380		ug/L	85	380	10/06/2004
Gasoline	2705	4724	<380		ug/L	129	380	10/06/2004
Motor Oil	2705	4724	<380		ug/L	84	380	10/06/2004
N-Octacosane (Surr.)	2705	4724	95		%	100	100	10/06/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3193	5444	<10		mg/kg	10	10	10/06/2004
Diesel	3193	5444	<10		mg/kg	6.7	10	10/06/2004
Gasoline	3193	5444	<10		mg/kg	5.7	10	10/06/2004
Motor Oil	3193	5444	<10		mg/kg	7.1	10	10/06/2004
N-Octacosane (Surr.)	3193	5444	61		%	1.0	1.0	10/06/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	<0.25		mg/kg	0.197	0.25	09/23/2004
Toluene		5822	<0.5		mg/kg	0.212	0.5	09/23/2004
Ethylbenzene		5822	<0.5		mg/kg	0.224	0.5	09/23/2004
Xylenes, Total		5822	<0.5		mg/kg	0.216	0.5	09/23/2004
4-Bromofluorobenzene (surr.)		5822	86.0		%	1	1	09/23/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1402	0.198	mg/L	0.197	100		10/04/2004
Mercury, diss mdl		800	1.64	ug/L	1.64	100	B	10/06/2004
VOLATILE COMPOUNDS								
Benzene		5771	20.0	ug/L	22.0	110		09/28/2004
Chlorobenzene		5771	20.0	ug/L	21.4	107		09/28/2004
1,1-Dichloroethene		5771	20.0	ug/L	24.0	120		09/28/2004
Ethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
MTBE		5771	20.0	ug/L	20.0	100		09/28/2004
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
Toluene		5771	20.0	ug/L	21.4	107		09/28/2004
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6	108		09/28/2004
Trichloroethylene		5771	20.0	ug/L	21.4	107		09/28/2004
Xylenes, Total		5771	60.0	ug/L	63.5	106		09/28/2004
Dibromofluoromethane (surr)		5771	100	%	102.0	102		09/28/2004
Toluene-d8 (surr)		5771	100	%	99.0	99		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	102.0	102		09/28/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1056	32.41	ug/kg	32.2	99		09/29/2004
Bromoform		1056	32.41	ug/kg	39.2	121		09/29/2004
Chlorobenzene		1056	32.41	ug/kg	35.4	109		09/29/2004
1,1-Dichloroethane		1056	32.41	ug/kg	32.3	100		09/29/2004
1,1-Dichloroethene		1056	32.41	ug/kg	27.9	86		09/29/2004
Ethylbenzene		1056	32.41	ug/kg	35.4	109		09/29/2004
MTBE		1056	32.41	ug/kg	36.2	112		09/29/2004
1,1,2,2-Tetrachloroethane		1056	32.41	ug/kg	33.7	104		09/29/2004
Toluene		1056	32.41	ug/kg	31.9	98		09/29/2004
Trichloroethylene		1056	32.41	ug/kg	32.6	101		09/29/2004
1,2,4-Trimethylbenzene		1056	32.41	ug/kg	37.1	114		09/29/2004
1,3,5-Trimethylbenzene		1056	32.41	ug/kg	37.8	117		09/29/2004
Vinyl Chloride		1056	32.41	ug/kg	25.1	77		09/29/2004
Xylenes, Total		1056	97.24	ug/kg	102	105		09/29/2004
4-Bromofluorobenzene (surr)		1056	100	%	109	109		09/29/2004
Dibromofluoromethane (surr)		1056	100	%	102	102		09/29/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Toluene-d8 (surr)		1056	100	%	96	96		09/29/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	100.0	ug/L	75.7	76		10/01/2004
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9	45		10/01/2004
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8	99		10/01/2004
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9	65		10/01/2004
Pyrene	447	849	100.0	ug/L	86.5	86		10/01/2004
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7	47		10/01/2004
Nitrobenzene-d5 (surr)	447	849	100	%	58.0	58		10/01/2004
2-Fluorobiphenyl (surr)	447	849	100	%	70.0	70		10/01/2004
Terphenyl-d14 (surr)	447	849	100	%	94.0	94		10/01/2004
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6	80		10/01/2004
2-Chlorophenol	447	849	100.0	ug/L	49.0	49		10/01/2004
4-Nitrophenol	447	849	100.0	ug/L	41.0	41		10/01/2004
Pentachlorophenol	447	849	100.0	ug/L	95.7	96		10/01/2004
Phenol	447	849	100.0	ug/L	23.4	23		10/01/2004
Phenol-d6 (surr)	447	849	100	%	23.0	23	L, OOC	10/01/2004
2-Fluorophenol (surr)	447	849	100	%	34.0	34	OOC	10/01/2004
Tribromophenol (surr)	447	849	100	%	98.0	98		10/01/2004
PCBs Wisconsin Aqueous								
PCB-1248	236	652	5.0	ug/L	3.0	60		10/08/2004
Decachlorobiphenyl (Surr.)	236	652	100	%	27	27		10/08/2004
Tetrachlorometaxylene (Surr.)	236	652	100	%	70	70		10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Gasoline	2705	4723	2,000	ug/L	1,450	72		10/05/2004
N-Octacosane (Surr.)	2705	4723	100	%	89	89		10/05/2004
EXTRACTABLE HYDROCARBONS-SOIL								
Gasoline	3193	5444	66.7	mg/kg	58.9	88		10/06/2004
N-Octacosane (Surr.)	3193	5444	100	%	103	103		10/06/2004
VOLATILES - BTEX (NONAQUEOUS)								
Benzene		5822	12.4	mg/kg	15.1	122		09/23/2004
Toluene		5822	12.4	mg/kg	15.2	123		09/23/2004
Ethylbenzene		5822	12.4	mg/kg	15.1	122		09/23/2004

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Xylenes, Total		5822	24.8	mg/kg	30.1	121		09/23/2004
4-Bromofluorobenzene (surr.)		5822	100.	%	87.7	88		09/23/2004

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1695	1.0		COMPLETE				09/27/2004
Barium, Diss (ICP) mdl		6407	0.9615	mg/L	0.048	0.8519	84		09/27/2004
Barium, Diss (ICP) mdl		6407	0.9615	mg/L	0.034	0.8353	83		09/27/2004
Chromium, Diss (ICP) mdl		6423	0.9615	mg/L	<0.0026	0.8547	89		09/27/2004
Chromium, Diss (ICP) mdl		6423	0.9615	mg/L	<0.0026	0.8525	89		09/27/2004
Silver, Diss (ICP) mdl		6421	0.9804	mg/L	<0.0038	0.8335	85		09/27/2004
Arsenic, Diss (GFAA) mdl		51	0.0227	mg/L	0.00070	0.02555	110		09/24/2004
Cadmium, Diss (GFAA) mdl		39	0.00119	mg/L	<0.0005	0.00124	104		09/24/2004
Lead, Diss (GFAA) mdl		44	0.0227	mg/L	<0.00050	0.0235	104		09/27/2004
Selenium, Diss (GFAA) mdl		39	0.0238	mg/L	<0.0015	0.0208	87		09/28/2004

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13164

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2768	85.52	85.09	%	0.5		09/22/2004	20
Dissolved ICP Metals		1695	COMPLETE	COMPLETE				09/27/2004	20
Barium, Diss (ICP) mdl		6407	0.048	0.050	mg/L	4.1		09/27/2004	20
Barium, Diss (ICP) mdl		6407	0.033	0.033	mg/L	0.0		09/27/2004	20
Chromium, Diss (ICP) mdl		6423	<0.0026	<0.0026	mg/L			09/27/2004	20
Chromium, Diss (ICP) mdl		6423	<0.0026	<0.0026	mg/L			09/27/2004	20
Silver, Diss (ICP) mdl		6421	<0.0038	<0.0038	mg/L			09/27/2004	20
Silver, Diss (ICP) mdl		6421	<0.0038	<0.0038	mg/L			09/27/2004	20
Arsenic, Diss (GFAA) mdl		51	0.00072	0.00060	mg/L	18.2		09/24/2004	20
Cadmium, Diss (GFAA) mdl		39	<0.0005	<0.0005	mg/L			09/24/2004	20
Lead, Diss (GFAA) mdl		44	<0.00050	<0.00050	mg/L			09/27/2004	20
Selenium, Diss (GFAA) mdl		39	<0.0015	<0.0015	mg/L			09/28/2004	20

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13164

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD		
	Batch	Batch	Spike									Result	Result
	Number	Number	Result		Amount				Amount	Units			
Cyanide, Total mdl		1402	0.205	<0.0022	0.198	mg/L	103.5	0.211	0.198	mg/L	106.6	2.9	
Mercury, diss mdl		800	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4	
VOLATILE COMPOUNDS													
Benzene		5771	24	<0.25	20	ug/L	120.0	22.3	20.0	ug/L	111.5	7.3	
Chlorobenzene		5771	22	<0.25	20	ug/L	110.0	22.2	20.0	ug/L	111.0	0.9	
1,1-Dichloroethene		5771	24	<0.25	20	ug/L	120.0	24.4	20.0	ug/L	122.0	1.7	
Ethylbenzene		5771	20.1	<0.43	20.0	ug/L	100.5	20.6	20.0	ug/L	103.0	2.5	
1,2,4-Trimethylbenzene		5771	13.0	<0.25	20.0	ug/L	65.0	16.2	20.0	ug/L	81.0	21.9	
Toluene		5771	22	<0.25	20	ug/L	110.0	21.5	20.0	ug/L	107.5	2.3	
1,3,5-Trimethylbenzene		5771	14.1	<0.14	20.0	ug/L	70.5	17.4	20.0	ug/L	87.0	21.0	
VOA 8260 NON-AQUEOUS LRL													
Benzene		1056	76.3	<0.71	84.32	ug/kg dw	90.5	87.3	93.93	ug/kg dw	92.9	13.4	
Bromoform		1056	91.5	<4.30	84.32	ug/kg dw	108.5	110	93.93	ug/kg dw	116.8	18.1	
Chlorobenzene		1056	80.7	<0.546	84.32	ug/kg dw	95.7	90.1	93.93	ug/kg dw	95.9	11.0	
1,1-Dichloroethane		1056	77.4	<1.0	84.32	ug/kg dw	91.7	90.3	93.93	ug/kg dw	96.2	15.5	
1,1-Dichloroethene		1056	75.3	<0.430	84.32	ug/kg dw	89.3	84.8	93.93	ug/kg dw	90.3	11.9	
Ethylbenzene		1056	81.9	<0.71	84.32	ug/kg dw	97.1	93.8	93.93	ug/kg dw	99.9	13.6	
MTBE		1056	86.1	<6.10	84.32	ug/kg dw	102.1	103	93.93	ug/kg dw	109.7	17.9	
1,1,2,2-Tetrachloroethane		1056	80.6	<1.4	84.32	ug/kg dw	95.6	91.1	93.93	ug/kg dw	97.0	12.3	
Toluene		1056	77.6	<0.90	84.32	ug/kg dw	92.0	86.1	93.93	ug/kg dw	91.7	10.4	
Trichloroethylene		1056	81.9	<1.2	84.32	ug/kg dw	97.1	92.3	93.93	ug/kg dw	98.2	12.0	
1,2,4-Trimethylbenzene		1056	82.5	<6.4	84.32	ug/kg dw	97.8	93.2	93.93	ug/kg dw	99.2	12.1	
1,3,5-Trimethylbenzene		1056	81.5	<6.4	84.32	ug/kg dw	96.6	96.8	93.93	ug/kg dw	103.0	17.2	
Vinyl Chloride		1056	69.4	<0.96	84.32	ug/kg dw	82.3	77.7	93.93	ug/kg dw	82.8	11.4	
Xylenes, Total		1056	239	<6.4	253	ug/kg dw	94.4	266	281	ug/kg dw	94.5	10.7	
BNA - 8270 AQUEOUS WI													
Acenaphthene		447	849	158	<6.3	217.4	ug/L	72.7	170	217.4	ug/L	78.2	7.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13164

Analyte	Prep	Run	Matrix	Sample	Spike		Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike		Result	Amount		Units	Result	Spike		
1,4-Dichlorobenzene	447	849	125	<4.6	217.4	ug/L	57.5	124	217.4	ug/L	57.0	0.8
2,4-Dinitrotoluene	447	849	198	82.4	217.4	ug/L	53.2	210	217.4	ug/L	58.7	5.9
N-Nitrosodi-n-propylamine	447	849	154	<5.29	217.4	ug/L	70.8	160	217.4	ug/L	73.6	3.8
Pyrene	447	849	177	<6.1	217.4	ug/L	81.4	183	217.4	ug/L	84.2	3.3
1,2,4-Trichlorobenzene	447	849	129	<5.06	217.4	ug/L	59.3	132	217.4	ug/L	60.7	2.3
4-Chloro-3-methylphenol	447	849	173	<5.9	217.4	ug/L	79.6	183	217.4	ug/L	84.2	5.6
2-chlorophenol	447	849	130	<5.38	217.4	ug/L	59.8	136	217.4	ug/L	62.6	4.5
4-Nitrophenol	447	849	89.3	<3.9	217.4	ug/L	41.1	103	217.4	ug/L	47.4	14.2
Pentachlorophenol	447	849	215	<6.03	217.4	ug/L	98.9	226	217.4	ug/L	104.0	5.0
Phenol	447	849	72.6	17.6	217.4	ug/L	25.3	79.2	217.4	ug/L	28.3	8.7
VOLATILES - BTEX (NONAQUEOUS)												
Benzene		5822	13.4	<0.25	12.5	mg/kg	107.2	10.1	12.2	mg/kg	82.8	28.1
Toluene		5822	13.7	<0.5	12.5	mg/kg	109.6	10.3	12.2	mg/kg	84.4	28.3
Ethylbenzene		5822	13.8	<0.5	12.5	mg/kg	110.4	10.4	12.2	mg/kg	85.2	28.1
Xylenes, Total		5822	27.4	<0.5	25.0	mg/kg	109.6	20.6	24.4	mg/kg	84.4	2

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job No: 04.13164

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Cyanide, Total mdl		1402	0.198	mg/L	0.197		99.5		90 - 110		20
Mercury, diss mdl		800	1.64	ug/L	1.64		100.0		80 - 125		20
VOLATILE COMPOUNDS											
Benzene		5771	20.0	ug/L	22.0		110.0		81 - 124		27
Chlorobenzene		5771	20.0	ug/L	21.4		107.0		77 - 125		28
1,1-Dichloroethene		5771	20.0	ug/L	24.0		120.0		53 - 143		28
Ethylbenzene		5771	20.0	ug/L	20.8		104.0		65 - 140		24
MTBE		5771	20.0	ug/L	20.0		100.0		70 - 133		26
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8		104.0		59 - 145		23
Toluene		5771	20.0	ug/L	21.4		107.0		73 - 127		21
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6		108.0		63 - 141		24
Trichloroethylene		5771	20.0	ug/L	21.4		107.0		81 - 121		16
Xylenes, Total		5771	60.0	ug/L	63.5		105.8		75 - 130		20
Dibromofluoromethane (surr)		5771	100	%	102.0		102.0		85 - 118		50
Toluene-d8 (surr)		5771	100	%	99.0		99.0		76 - 120		50
4-Bromofluorobenzene (surr)		5771	100	%	102.0		102.0		76 - 116		50
8260 NON-AQUEOUS LRL											
Benzene		1056	32.41	ug/kg	32.2		99.4		68 - 158		20
Bromoform		1056	32.41	ug/kg	39.2		121.0		61 - 151		20
Chlorobenzene		1056	32.41	ug/kg	35.4		109.2		65 - 155		20
1,1-Dichloroethane		1056	32.41	ug/kg	32.3		99.7		64 - 154		20
1,1-Dichloroethene		1056	32.41	ug/kg	27.9		86.1		55 - 148		20
Ethylbenzene		1056	32.41	ug/kg	35.4		109.2		69 - 159		20
MTBE		1056	32.41	ug/kg	36.2		111.7		71 - 161		20
1,1,2,2-Tetrachloroethane		1056	32.41	ug/kg	33.7		104.0		63 - 153		20
Toluene		1056	32.41	ug/kg	31.9		98.4		68 - 158		20
Trichloroethylene		1056	32.41	ug/kg	32.6		100.6		61 - 151		20
1,2,4-Trimethylbenzene		1056	32.41	ug/kg	37.1		114.5		68 - 158		20
1,3,5-Trimethylbenzene		1056	32.41	ug/kg	37.8		116.6		66 - 156		20
Vinyl Chloride		1056	32.41	ug/kg	25.1		77.4		47 - 137		20
Xylenes, Total		1056	97.24	ug/kg	102		104.9		69 - 159		20
4-Bromofluorobenzene (surr)		1056	100	%	109		109.0		75 - 119		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/12/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.13164

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD Max.	
	Batch	Batch								Amount	Result
Dibromofluoromethane (surr)		1056	100	%	102		102.0		56 - 146		
Toluene-d8 (surr)		1056	100	%	96		96.0		52 - 142		
BNA - 8270 AQUEOUS WI											
Acenaphthene	447	849	100.0	ug/L	75.7		75.7		42 - 127		20
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9		44.9		30 - 101		20
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8		98.8		51 - 141		20
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9		64.9		39 - 119		20
Pyrene	447	849	100.0	ug/L	86.5		86.5		44 - 130		20
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7		46.7		35 - 105		20
Nitrobenzene-d5 (surr)	447	849	100	%	58.0		58.0		37 - 127		20
2-Fluorobiphenyl (surr)	447	849	100	%	70.0		70.0		40 - 114		20
Terphenyl-d14 (surr)	447	849	100	%	94.0		94.0		38 - 116		20
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6		79.6		41 - 127		20
2-chlorophenol	447	849	100.0	ug/L	49.0		49.0		35 - 107		20
4-Nitrophenol	447	849	100.0	ug/L	41.0		41.0		15 - 66		20
Pentachlorophenol	447	849	100.0	ug/L	95.7		95.7		19 - 109		20
Phenol	447	849	100.0	ug/L	23.4		23.4		D - 90		20
Phenol-d6 (surr)	447	849	100	%	23.0		23.0		28 - 109		20
2-Fluorophenol (surr)	447	849	100	%	34.0		34.0		30 - 140		20
Tribromophenol (surr)	447	849	100	%	98.0		98.0		44 - 134		20
PCBs Wisconsin Aqueous											
PCB-1248	236	652	5.0	ug/L	3.0	3.0	60.0	60.0	34 - 111	0.0	20
Decachlorobiphenyl (Surr.)	236	652	100	%	27	23	27.0	23.0	37 - 134	16.0	
Tetrachlorometaxylene (Sur	236	652	100	%	70	69	70.0	69.0	37 - 115	1.4	
EXTRACTABLE HYDROCARBONS-W											
Gasoline	2705	4723	2,000	ug/L	1,450	1,080	72.5	54.0	40 - 96	29.2	
N-Octacosane (Surr.)	2705	4723	100	%	89	76	89.0	76.0	41 - 151	15.8	20
EXTRACTABLE HYDROCARBONS-S											
Gasoline	3193	5444	66.7	mg/kg	58.9		88.3		42 - 132		20
N-Octacosane (Surr.)	3193	5444	100	%	103		103.0		44 - 134		20
VOLATILES - BTEX (NONAQUEO											
Benzene		5822	12.4	mg/kg	15.1		121.8		78 - 151		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job No: 04.13164

Analyte	Prep	Run	LCS	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch								
Toluene		5822	12.4	mg/kg	15.2		122.6	79 - 151		20
Ethylbenzene		5822	12.4	mg/kg	15.1		121.8	79 - 157		20
Xylenes, Total		5822	24.8	mg/kg	30.1		121.4	76 - 149		20
4-Bromofluorobenzene (surr		5822	100.	%	87.7		87.7	78 - 124		

TestAmerica Job Number: 04.13164

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-21-04 Receiver's Initials Am Time (Delivered): 20:40

Temperature Record

Cooler ID# (If Applicable)

4 °C / On Ice

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| <input type="checkbox"/> US Postal | |

Exceptions Noted

Sample(s) not received in a cooler.

Samples(s) received same day of sampling.

Temperature not taken:

Log-In by:

JP MF EM

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job: 04.13342

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
826411	TB-14	09/22/2004	09/23/2004
826412	MW-12	09/22/2004	09/23/2004
826413	MW-11	09/23/2004	09/23/2004
826414	MW-13	09/23/2004	09/23/2004
826415	MW-14	09/23/2004	09/23/2004
826416	MW-10	09/23/2004	09/23/2004
826417	MW-1	09/23/2004	09/23/2004
826418	MW-1R	09/23/2004	09/23/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert

Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826411	SAMPLE DESCRIPTION TB-14								DATE-TIME TAKEN 09/22/2004 07:00	
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
o-mobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826411	TB-14					09/22/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	0.13		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	0.79		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	0.46	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	0.28	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826411	SAMPLE DESCRIPTION TB-14					DATE-TIME TAKEN 09/22/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	0.34		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromofluoromethane (surr)	101		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	94		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
826412	MW-12	09/22/2004 10:15
Prep BNA (MDL)	Complete	
BNA - 8270 AQUEOUS WI		09/28/2004 scb 447 SW 3510
Acenaphthene	<2.9 ug/L	2.9 8.7 10/01/2004 ake 447 849 SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826412	MW-12					09/22/2004 10:15				
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo (a) anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo (b) fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo (k) fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo (a) pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo (ghi) perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis (2-chloroethyl) ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis (2-chloroethoxy) methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis (2-ethylhexyl) phthalate	4.08	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis (2chloroisopropyl) ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
Dibenzo (a, h) anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Table with columns: Analyte, Result, Flag, Units, MDL, LOQ, Date Analyzed, Analyst Initials, Prep Batch, Run Batch, Method. Includes sample data for Diethyl phthalate, 1,2-Diphenylhydrazine, etc.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826412	MW-12					09/22/2004 10:15				
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	73		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	68		%	100	100	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	97		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	30	L	%	100	100	10/01/2004	ake	447	849	SW 8270C

L - LCS recovery is outside of control limits.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826412	SAMPLE DESCRIPTION MW-12					DATE-TIME TAKEN 09/22/2004 10:15				
2-Fluorophenol (surr)	45		%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	110		%	100	100	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/08/2004	kak	236	653	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/08/2004	kak	236	653	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/08/2004	kak	236	653	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/08/2004	kak	236	653	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/08/2004	kak	236	653	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/08/2004	kak	236	653	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/08/2004	kak	236	653	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/08/2004	kak	236	653	SW 8082
Polychlorobiphenyl (Surr.)	16		%			10/08/2004	kak	236	653	SW 8082
Tetrachlorometaxylene (Surr.)	63		%			10/08/2004	kak	236	653	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
826413	MW-11	09/23/2004 11:05
Prep BNA (MDL)	Complete	09/28/2004 scb 447 SW 3510
BNA - 8270 AQUEOUS WI		
Acenaphthene	<2.9	10/01/2004 ake 447 849 SW 8270C
Acenaphthylene	<2.52	10/01/2004 ake 447 849 SW 8270C

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826413	MW-11					09/23/2004 11:05				
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Ben-zidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Ben-zo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Ben-zo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Ben-zo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Ben-zo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Ben-zo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Ben-zyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Ben-zyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
Diben-zo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826413	MW-11					09/23/2004 11:05				
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Benzo(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
-Sophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnapthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Napthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826413	MW-11					09/23/2004 11:05				
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	69		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	66		%	100	100	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	76		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	28	L, OOC	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	43		%	100	100	10/01/2004	ake	447	849	SW 8270C

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342
 Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826413	SAMPLE DESCRIPTION MW-11					DATE-TIME TAKEN 09/23/2004 11:05				
Tribromophenol (surr)	103		%	100	100	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/08/2004	kak	236	653	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/08/2004	kak	236	653	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/08/2004	kak	236	653	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/08/2004	kak	236	653	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/08/2004	kak	236	653	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/08/2004	kak	236	653	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/08/2004	kak	236	653	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/08/2004	kak	236	653	SW 8082
1,2-dichlorobiphenyl (Surr.)	17		%			10/08/2004	kak	236	653	SW 8082
1,2,4-trichlorometaxylene (Surr.)	60		%			10/08/2004	kak	236	653	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
826414	MW-13	09/23/2004 11:40
Extraction Prep	COMPLETE	09/24/2004 acm 2707 IOWA-0A2
EXTRACTABLE HYDROCARBONS-WAT		
Total Extractable Hydrocarbo	467 ug/L	380 380 10/06/2004 ljm 2707 4726 IA-OA2/S-8015
Diesel	<380 ug/L	85 380 10/06/2004 ljm 2707 4726 IA-OA2/S-8015
Gasoline	<380 ug/L	129 380 10/06/2004 ljm 2707 4726 IA-OA2/S-8015

ANALYTICAL REPORT

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10/11/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826414	SAMPLE DESCRIPTION MW-13					DATE-TIME TAKEN 09/23/2004 11:40				
Motor Oil	467		ug/L	84	380	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
N-Octacosane (Surr.)	114		%	100	100	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
VOLATILES - BTEX (WATER)										
Benzene	<2.0		ug/L	0.06	2.0	09/28/2004	ake		11087	IA-OA1
Toluene	<2.0		ug/L	0.079	2.0	09/28/2004	ake		11087	IA-OA1
Ethylbenzene	<2.0		ug/L	0.233	2.0	09/28/2004	ake		11087	IA-OA1
Xylenes, Total	<3.0		ug/L	0.311	3.0	09/28/2004	ake		11087	IA-OA1
4-Bromofluorobenzene (surr.)	98.4		%	1	1	09/28/2004	ake		11087	IA-OA1
VOA Preservation pH	<2		units	NA		09/28/2004	mmk		1057	SW 9041A

SAMPLE NO. 826415	SAMPLE DESCRIPTION MW-14					DATE-TIME TAKEN 09/23/2004 12:15				
Extraction Prep	COMPLETE					09/24/2004	acm	2707		IOWA-OA2
EXTRACTABLE HYDROCARBONS-WAT										
Total Extractable Hydrocarbo	1,120		ug/L	380	380	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
Diesel	<380		ug/L	85	380	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
Gasoline	<380		ug/L	129	380	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
Motor Oil	1,120		ug/L	84	380	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
N-Octacosane (Surr.)	113		%	100	100	10/06/2004	ljm	2707	4726	IA-OA2/S-8015
VOLATILES - BTEX (WATER)										
Benzene	<2.0		ug/L	0.06	2.0	09/28/2004	ake		11087	IA-OA1

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826415	SAMPLE DESCRIPTION MW-14					DATE-TIME TAKEN 09/23/2004 12:15				
Toluene	<2.0		ug/L	0.079	2.0	09/28/2004	ake		11087	IA-OA1
Ethylbenzene	<2.0		ug/L	0.233	2.0	09/28/2004	ake		11087	IA-OA1
Xylenes, Total	<3.0		ug/L	0.311	3.0	09/28/2004	ake		11087	IA-OA1
4-Bromofluorobenzene (surr.)	98.8		%	1	1	09/28/2004	ake		11087	IA-OA1
VOA Preservation pH	<2		units	NA		09/28/2004	mnk		1057	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826416	MW-10					09/23/2004 14:40				
Amide, Total	mdl	0.0093	mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals		COMPLETE				10/06/2004	llw		1702	
Barium, Diss (ICP)	mdl	0.025	mg/L	0.0013	0.0047	10/06/2004	llw		6426	SW 6010B
Chromium, Diss (ICP)	mdl	0.0091	mg/L	0.0026	0.0092	10/06/2004	llw		6442	SW 6010B
Silver, Diss (ICP)	mdl	<0.0038	mg/L	0.0038	0.0136	10/06/2004	llw		6440	SW 6010B
Arsenic, Diss (GFAA)	mdl	0.00750	mg/L	0.00036	0.0013	10/01/2004	mrn		52	SW 7060A
Cadmium, Diss (GFAA)	mdl	<0.00014	mg/L	0.00014	0.00050	10/01/2004	mrn		40	SW 7131A
Lead, Diss (GFAA)	mdl	<0.00050	mg/L	0.00050	0.0018	09/27/2004	heh		44	SW 7421
Mercury, diss	mdl	0.061	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2
Selenium, Diss (GFAA)	mdl	<0.0015	mg/L	0.0015	0.0053	09/28/2004	mrn		39	SW 7740
Prep BNA (MDL)		Complete				09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene		<0.25	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826416	SAMPLE DESCRIPTION MW-10					DATE-TIME TAKEN 09/23/2004 14:40				
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	0.58		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.25		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	2.73		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
826416	MW-10								09/23/2004 14:40	
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	1.26		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	1.45		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	12.7		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826416	MW-10					09/23/2004 14:40				
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	44.6		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	30.7		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	99		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	92		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	86		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826416	MW-10					09/23/2004 14:40				
Bis (2-ethylhexyl) phthalate	<3.05	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis (2chloroisopropyl) ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
Dibenzo (a, h) anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826416	MW-10					09/23/2004 14:40				
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	72		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	81		%	100	100	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	101		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826416	SAMPLE DESCRIPTION MW-10					DATE-TIME TAKEN 09/23/2004 14:40				
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	27	L, OOC	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	44		%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	114		%	100	100	10/01/2004	ake	447	849	SW 8270C
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
826417	MW-1								09/23/2004 16:05	
Cyanide, Total mdl	0.0735		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826417	SAMPLE DESCRIPTION MW-1					DATE-TIME TAKEN 09/23/2004 16:05				
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	4.36		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	0.97		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	155		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826417	MW-1					09/23/2004 16:05				
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	1.01		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	3.00		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	0.20		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	607		ug/L	4.3	13	09/30/2004	dmd		5780	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	102		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	91		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	89		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826417	MW-1					09/23/2004 16:05				
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
benzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
benzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826417	MW-1					09/23/2004 16:05				
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnapthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Napthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	74		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	74		%	100	100	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826417	MW-1					09/23/2004 16:05				
Terphenyl-d14 (surr)	74		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	30	L	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	40	OOO	%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	100		%	100	100	10/01/2004	ake	447	849	SW 8270C
VOA Preservation pH	<2		units	NA		09/29/2004	sjg		1058	SW 9041A

L - LCS recovery is outside of control limits.
 OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826418	SAMPLE DESCRIPTION MW-1R					DATE-TIME TAKEN 09/23/2004 16:20				
Cyanide, Total mdl	0.0714		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	0.20		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.34		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826418	MW-1R					09/23/2004 16:20				
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	5.06		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	178		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826418	MW-1R					09/23/2004 16:20				
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	0.85		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	3.31		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	623		ug/L	4.3	13	09/30/2004	dmd		5780	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	103		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	92		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826418	MW-1R					09/23/2004 16:20				
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	3.21	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
benzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
benzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826418	MW-1R					09/23/2004 16:20				
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	68		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	69		%	100	100	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826418	MW-1R					09/23/2004 16:20				
Terphenyl-d14 (surr)	67		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	29	L	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	38	OOO	%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	95		%	100	100	10/01/2004	ake	447	849	SW 8270C
VOA Preservation pH	<2		units	NA		09/29/2004	sjg		1058	SW 9041A

L - LCS recovery is outside of control limits.

OOO - Surrogate recovery outside QC limits due to matrix interferences.

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 - 319-277-2401 - 800-750-2401 - FAX 319-277-2401

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1402	247.5	ug/L	263	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	259	105		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	262	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	261	106		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	129	104		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	128	103		10/04/2004
Dissolved ICP Metals		1702	1.0		1.0	100		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.10	102		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.09	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.10	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.00	100		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	1.01	101		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	0.9839	98		10/06/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0228	101		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00109	109		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00108	108		10/01/2004
Lead, Diss (GFAA) mdl		44	0.0250	mg/L	0.02577	103		09/27/2004
Mercury, diss mdl		800	1.00	ug/L	0.9804	98		10/06/2004
Selenium, Diss (GFAA) mdl		39	0.0375	mg/L	0.0403	108		09/28/2004
VOLATILE COMPOUNDS								
Benzene		5771	50.0	ug/L	52.3	105		09/28/2004
Chlorobenzene		5771	50.0	ug/L	50.6	101		09/28/2004
1,1-Dichloroethene		5771	50.0	ug/L	54.4	109		09/28/2004
Ethylbenzene		5771	50.0	ug/L	49.8	100		09/28/2004
MTBE		5771	50.0	ug/L	42.3	85		09/28/2004
1,2,4-Trimethylbenzene		5771	50.0	ug/L	50.4	101		09/28/2004
Toluene		5771	50.0	ug/L	51.3	103		09/28/2004
1,3,5-Trimethylbenzene		5771	50.0	ug/L	51.6	103		09/28/2004

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

 Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Trichloroethylene		5771	50.0	ug/L	51.2	102		09/28/2004
Xylenes, Total		5771	150.0	ug/L	156	104		09/28/2004
Dibromofluoromethane (surr)		5771	100	%	96	96		09/28/2004
Toluene-d8 (surr)		5771	100	%	98	98		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	105	105		09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5780	100.0	ug/L	94.9	95		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		849	50.0	ug/L	49.3	99		10/01/2004
1,4-Dichlorobenzene		849	50.0	ug/L	49.6	99		10/01/2004
2,4-Dinitrotoluene		849	50.0	ug/L	54.2	108		10/01/2004
N-Nitrosodi-n-propylamine		849	50.0	ug/L	50.9	102		10/01/2004
Pyrene		849	50.0	ug/L	50.0	100		10/01/2004
1,2,4-Trichlorobenzene		849	50.0	ug/L	49.0	98		10/01/2004
Nitrobenzene-d5 (surr)		849	50.0	ug/L	51.6	103		10/01/2004
2-Fluorobiphenyl (surr)		849	50.0	ug/L	49.0	98		10/01/2004
Terphenyl-d14 (surr)		849	50.0	ug/L	49.3	99		10/01/2004
4-Chloro-3-methylphenol		849	50.0	ug/L	51.5	103		10/01/2004
2-chlorophenol		849	50.0	ug/L	50.4	101		10/01/2004
4-Nitrophenol		849	50.0	ug/L	53.6	107		10/01/2004
Pentachlorophenol		849	50.0	ug/L	50.7	101		10/01/2004
Phenol		849	50.0	ug/L	50.9	102		10/01/2004
Phenol-d6 (surr)		849	100.0	ug/L	101	101		10/01/2004
2-Fluorophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
Tribromophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
PCBs Wisconsin Aqueous								
PCB-1248		653	0.64	ppm	0.62	97		10/08/2004
Decachlorobiphenyl (Surr.)		653	100	%	86	86		10/08/2004
Tetrachlorometaxylene (Surr.)		653	100	%	96	96		10/08/2004
PCBs Wisconsin Aqueous								
PCB-1248		653	0.64	ppm	0.64	100		10/08/2004

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2401

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Decachlorobiphenyl (Surr.)		653	100	%	88	88		10/08/2004
Tetrachlorometaxylene (Surr.)		653	100	%	100	100		10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Diesel		4726	2,500	ppm	2,420	97		10/06/2004
Gasoline		4726	2,500	ppm	2,330	93		10/06/2004
Motor Oil		4726	2,500	ppm	2,290	92		10/06/2004
VOLATILES - BTEX (WATER)								
Benzene		11087	100.	ug/L	98.7	99		09/27/2004
Toluene		11087	100.	ug/L	98.0	98		09/27/2004
Ethylbenzene		11087	100.	ug/L	97.5	98		09/27/2004
Xylenes, Total		11087	200	ug/L	193	96		09/27/2004
4-Bromofluorobenzene (surr.)		11087	100.0	%	98.5	98		09/27/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/11/2004

TestAmerica Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1402	<0.0022		mg/L	0.0022	0.0078	10/04/2004
Dissolved ICP Metals		1702	COMPLETE					10/06/2004
Barium, Diss (ICP) mdl		6426	<0.0013		mg/L	0.0013	0.0047	10/06/2004
Chromium, Diss (ICP) mdl		6442	<0.0026		mg/L	0.0026	0.0092	10/06/2004
Silver, Diss (ICP) mdl		6440	<0.0038		mg/L	0.0038	0.0136	10/06/2004
Arsenic, Diss (GFAA) mdl		52	<0.00036		mg/L	0.00036	0.0013	10/01/2004
Cadmium, Diss (GFAA) mdl		40	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Lead, Diss (GFAA) mdl		44	<0.00050		mg/L	0.00050	0.0018	09/27/2004
Mercury, diss mdl		800	0.037	B	ug/L	0.017	0.061	10/06/2004
Selenium, Diss (GFAA) mdl		39	<0.0015		mg/L	0.0015	0.0053	09/28/2004
VOLATILE COMPOUNDS								
Benzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromodichloromethane		5771	<0.46		ug/L	0.46	1.4	09/28/2004
Bromoform		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Bromomethane		5771	<0.62		ug/L	0.62	1.9	09/28/2004
Bromobenzene		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Carbon disulfide		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromochloromethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
Carbon tetrachloride		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dibromomethane		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Chlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
n-Butylbenzene		5771	0.13	B	ug/L	0.13	0.39	09/28/2004
sec-Butylbenzene		5771	<0.16		ug/L	0.16	0.48	09/28/2004
tert-Butylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloroethane		5771	<0.12		ug/L	0.12	0.36	09/28/2004
Chloroform		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloromethane		5771	<0.24		ug/L	0.24	0.72	09/28/2004
2-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
4-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chlorodibromomethane		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dibromo-3-chloropropane		5771	<0.30		ug/L	0.30	0.90	09/28/2004
1,2-Dibromoethane (EDB)		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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10/11/2004

TestAmerica Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,3-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,4-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dichlorodifluoromethane		5771	<0.40		ug/L	0.4	1.2	09/28/2004
1,1-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Di-Isopropylether		5771	<0.32		ug/L	0.32	0.96	09/28/2004
1,3-Dichloropropane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
2,2-Dichloropropane		5771	<0.73		ug/L	0.73	2.2	09/28/2004
1,1-Dichloropropene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
trans-1,2-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
cis-1,2-Dichloroethene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
1,2-Dichloropropane		5771	<0.12		ug/L	0.12	0.36	09/28/2004
cis-1,3-Dichloropropene		5771	<0.43		ug/L	0.43	1.2	09/28/2004
trans-1,3-Dichloropropene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Hexachlorobutadiene		5771	0.47	B	ug/L	0.22	0.66	09/28/2004
Ethylbenzene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Isopropylbenzene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
p-Isopropyltoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Hexane		5771	0.23	B	ug/L	0.18	0.54	09/28/2004
MTBE		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Methylene chloride		5771	<0.63		ug/L	0.63	1.9	09/28/2004
Napthalene		5771	<0.86		ug/L	0.86	2.6	09/28/2004
n-Propylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Styrene		5771	<0.41		ug/L	0.41	1.2	09/28/2004
1,1,1,2-Tetrachloroethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
1,1,2,2-Tetrachloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2,3-Trichlorobenzene		5771	1.34	B	ug/L	0.40	1.2	09/28/2004
1,2,4-Trichlorobenzene		5771	0.61	B	ug/L	0.25	0.75	09/28/2004
Tetrachloroethene		5771	<0.37		ug/L	0.37	1.1	09/28/2004
1,2,3-Trichloropropane		5771	<0.49		ug/L	0.49	1.5	09/28/2004
1,2,4-Trimethylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Toluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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10/11/2004

TestAmerica Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,3,5-Trimethylbenzene		5771	<0.14		ug/L	0.14	0.42	09/28/2004
1,1,1-Trichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1,2-Trichloroethane		5771	<0.10		ug/L	0.10	0.3	09/28/2004
Trichloroethylene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Trichlorofluoromethane		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Vinyl chloride		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Xylenes, Total		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Dibromofluoromethane (surr)		5771	98.0		%			09/28/2004
Toluene-d8 (surr)		5771	93.0		%			09/28/2004
4-Bromofluorobenzene (surr)		5771	91.0		%			09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5780	<0.43		ug/L	0.43	1.3	09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	<2.9		ug/L	2.9	8.7	10/01/2004
Acenaphthylene	447	849	<2.52		ug/L	2.52	7.56	10/01/2004
Anthracene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
Benzidine	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Benzo(a)anthracene	447	849	<2.72		ug/L	2.72	8.16	10/01/2004
Benzo(b)fluoranthene	447	849	<2.57		ug/L	2.57	7.71	10/01/2004
Benzo(k)fluoranthene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Benzo(a)pyrene	447	849	<2.47		ug/L	2.47	7.41	10/01/2004
Benzo(ghi)perylene	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Benzyl Alcohol	447	849	<2.5		ug/L	2.5	7.5	10/01/2004
Benzyl butyl phthalate	447	849	<2.73		ug/L	2.73	8.19	10/01/2004
Bis(2-chloroethyl)ether	447	849	<2.17		ug/L	2.17	6.51	10/01/2004
Bis(2-chloroethoxy)methane	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Bis(2-ethylhexyl)phthalate	447	849	4.55	B	ug/L	3.05	9.15	10/01/2004
Bis(2chloroisopropyl)ether	447	849	<2.19		ug/L	2.19	6.57	10/01/2004
4-Bromophenyl phenyl ether	447	849	<3.27		ug/L	3.27	9.81	10/01/2004
4-Chloroaniline	447	849	<1.69		ug/L	1.69	5.07	10/01/2004
2-Chloronaphthalene	447	849	<2.32		ug/L	2.32	6.96	10/01/2004
4-Chlorophenylphenyl ether	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
Chrysene	447	849	<2.67		ug/L	2.67	8.01	10/01/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/11/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dibenzo(a,h)anthracene	447	849	<2.73		ug/L	2.73	8.19	10/01/2004
Dibenzofuran	447	849	<1.97		ug/L	1.97	5.91	10/01/2004
Di-n-butylphthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,3-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,4-Dichlorobenzene	447	849	<2.1		ug/L	2.1	6.3	10/01/2004
3,3-Dichlorobenzidine	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Diethyl phthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Diphenylhydrazine	447	849	<2.36		ug/L	2.36	7.08	10/01/2004
Dimethyl phthalate	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
2,4-Dinitrotoluene	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2,6-Dinitrotoluene	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Di-n-octylphthalate	447	849	<2.82		ug/L	2.82	8.46	10/01/2004
Fluoranthene	447	849	<2.08		ug/L	2.08	6.24	10/01/2004
Fluorene	447	849	<2.13		ug/L	2.13	6.39	10/01/2004
Hexachlorobenzene	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Hexachloro-1,3-butadiene	447	849	<2.41		ug/L	2.41	7.23	10/01/2004
Hexachlorocyclopentadiene	447	849	<1.78		ug/L	1.78	5.34	10/01/2004
Hexachloroethane	447	849	<1.94		ug/L	1.94	5.82	10/01/2004
Indeno(1,2,3-cd)pyrene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Isophorone	447	849	<2.37		ug/L	2.37	7.11	10/01/2004
2-Methylnaphthalene	447	849	<2.23		ug/L	2.23	6.69	10/01/2004
Naphthalene	447	849	<2.68		ug/L	2.68	8.04	10/01/2004
2-Nitroaniline	447	849	<2.25		ug/L	2.25	6.75	10/01/2004
3-Nitroaniline	447	849	<1.84		ug/L	1.84	5.52	10/01/2004
4-Nitroaniline	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
Nitrobenzene	447	849	<2.04		ug/L	2.04	6.12	10/01/2004
N-Nitrosodimethylamine	447	849	<2.01		ug/L	2.01	6.03	10/01/2004
N-Nitrosodiphenylamine	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
N-Nitrosodi-n-propylamine	447	849	<2.44		ug/L	2.44	7.32	10/01/2004
N-Nitrosodi-n-butylamine	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
N-Nitrosodiethylamine	447	849	<1.71		ug/L	1.71	5.13	10/01/2004
Phenanthrene	447	849	<2.56		ug/L	2.56	7.68	10/01/2004

QUALITY CONTROL REPORT BLANKS

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10/11/2004

TestAmerica Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
N-Nitrosopyrrolidine	447	849	<2.55		ug/L	2.55	7.65	10/01/2004
Pentachlorobenzene	447	849	<1.51		ug/L	1.51	4.53	10/01/2004
Pyrene	447	849	<2.8		ug/L	2.8	8.4	10/01/2004
Pyridine	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
1,2,4,5-Tetrachlorobenzene	447	849	<2.46		ug/L	2.46	7.38	10/01/2004
1,2,4-Trichlorobenzene	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Nitrobenzene-d5 (surr)	447	849	66.0		%	100	100	10/01/2004
2-Fluorobiphenyl (surr)	447	849	59.0		%	100	100	10/01/2004
Terphenyl-d14 (surr)	447	849	97.0		%	100	100	10/01/2004
Benzoic Acid	447	849	<10.0		ug/L	10.0	30.0	10/01/2004
4-Chloro-3-methylphenol	447	849	<2.7		ug/L	2.7	8.1	10/01/2004
2-chlorophenol	447	849	<2.48		ug/L	2.48	7.44	10/01/2004
Cresols, Total	447	849	<4.42		ug/L	4.42	13.3	10/01/2004
2,4-Dichlorophenol	447	849	<2.66		ug/L	2.66	7.98	10/01/2004
2,4-Dimethylphenol	447	849	<1.49		ug/L	1.49	4.47	10/01/2004
2,4-Dinitrophenol	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2-Methyl-4,6-dinitrophenol	447	849	<2.98		ug/L	2.98	8.94	10/01/2004
2-Nitrophenol	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
4-Nitrophenol	447	849	<1.8		ug/L	1.8	5.4	10/01/2004
2,5-Dinitrophenol	447	849	<4.21		ug/L	4.21	12.6	10/01/2004
Pentachlorophenol	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Phenol	447	849	<1.72		ug/L	1.72	5.16	10/01/2004
2,4,5-Trichlorophenol	447	849	<3.22		ug/L	3.22	9.66	10/01/2004
2,4,6-Trichlorophenol	447	849	<3.66		ug/L	3.66	11.0	10/01/2004
Phenol-d6 (surr)	447	849	25.0	OOC, L	%	100	100	10/01/2004
2-Fluorophenol (surr)	447	849	42.0		%	100	100	10/01/2004
Tribromophenol (surr)	447	849	97.0		%	100	100	10/01/2004
PCBs Wisconsin Aqueous								
PCB 1016	236	652	<0.10		ug/L	0.10	0.30	10/08/2004
PCB-1242	236	652	<0.085		ug/L	0.085	0.26	10/08/2004
PCB-1221	236	652	<0.49		ug/L	0.49	1.5	10/08/2004
PCB-1232	236	652	<0.027		ug/L	0.027	0.081	10/08/2004
PCB-1248	236	652	<0.065		ug/L	0.065	0.20	10/08/2004

QUALITY CONTROL REPORT BLANKS

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10/11/2004

TestAmerica Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCB-1254	236	652	<0.098		ug/L	0.098	0.29	10/08/2004
PCB-1260	236	652	<0.091		ug/L	0.091	0.27	10/08/2004
PCB-1268	236	652	<1.0		ug/L	1.0	1.0	10/08/2004
Decachlorobiphenyl (Surr.)	236	652	27		%			10/08/2004
Tetrachlorometaxylene (Surr.)	236	652	59		%			10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	2707	4724	<380		ug/L	380	380	10/06/2004
Diesel	2707	4724	<380		ug/L	85	380	10/06/2004
Gasoline	2707	4724	<380		ug/L	129	380	10/06/2004
Motor Oil	2707	4724	<380		ug/L	84	380	10/06/2004
N-Octacosane (Surr.)	2707	4724	93		%	100	100	10/06/2004
VOLATILES - BTEX (WATER)								
Benzene		11087	<2.0		ug/L	0.06	2.0	09/27/2004
Toluene		11087	<2.0		ug/L	0.079	2.0	09/27/2004
Ethylbenzene		11087	<2.0		ug/L	0.233	2.0	09/27/2004
Xylenes, Total		11087	<3.0		ug/L	0.311	3.0	09/27/2004
4-Bromofluorobenzene (surr.)		11087	96.0		%	1	1	09/27/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1402	0.198	mg/L	0.197	100		10/04/2004
Mercury, diss mdl		800	1.64	ug/L	1.64	100	B	10/06/2004
VOLATILE COMPOUNDS								
Benzene		5771	20.0	ug/L	22.0	110		09/28/2004
Chlorobenzene		5771	20.0	ug/L	21.4	107		09/28/2004
1,1-Dichloroethene		5771	20.0	ug/L	24.0	120		09/28/2004
Ethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
MTBE		5771	20.0	ug/L	20.0	100		09/28/2004
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
Toluene		5771	20.0	ug/L	21.4	107		09/28/2004
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6	108		09/28/2004
Trichloroethylene		5771	20.0	ug/L	21.4	107		09/28/2004
Xylenes, Total		5771	60.0	ug/L	63.5	106		09/28/2004
Dibromofluoromethane (surr)		5771	100	%	102.0	102		09/28/2004
Toluene-d8 (surr)		5771	100	%	99.0	99		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	102.0	102		09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5780	20.0	ug/L	18.5	92		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	100.0	ug/L	75.7	76		10/01/2004
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9	45		10/01/2004
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8	99		10/01/2004
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9	65		10/01/2004
Pyrene	447	849	100.0	ug/L	86.5	86		10/01/2004
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7	47		10/01/2004
Nitrobenzene-d5 (surr)	447	849	100	%	58.0	58		10/01/2004
2-Fluorobiphenyl (surr)	447	849	100	%	70.0	70		10/01/2004
Terphenyl-d14 (surr)	447	849	100	%	94.0	94		10/01/2004
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6	80		10/01/2004
2-chlorophenol	447	849	100.0	ug/L	49.0	49		10/01/2004
4-Nitrophenol	447	849	100.0	ug/L	41.0	41		10/01/2004
Pentachlorophenol	447	849	100.0	ug/L	95.7	96		10/01/2004
Phenol	447	849	100.0	ug/L	23.4	23		10/01/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Phenol-d6 (surr)	447	849	100	%	23.0	23	L, OOC	10/01/2004
2-Fluorophenol (surr)	447	849	100	%	34.0	34	OOC	10/01/2004
Tribromophenol (surr)	447	849	100	%	98.0	98		10/01/2004
PCBs Wisconsin Aqueous PCB-1248	236	652	5.0	ug/L	3.0	60		10/08/2004
Decachlorobiphenyl (Surr.)	236	652	100	%	27	27		10/08/2004
Tetrachlorometaxylene (Surr.)	236	652	100	%	70	70		10/08/2004
EXTRACTABLE HYDROCARBONS-WATER								
Gasoline	2707	4724	2,000	ug/L	1,900	95		10/06/2004
N-Octacosane (Surr.)	2707	4724	100	%	98	98		10/06/2004
VOLATILES - BTEX (WATER)								
Benzene		11087	100	ug/L	75.1	75		09/27/2004
Toluene		11087	100.	ug/L	86.5	86		09/27/2004
Ethylbenzene		11087	100.	ug/L	91.7	92		09/27/2004
Xylenes, Total		11087	200	ug/L	186	93		09/27/2004
4-Bromofluorobenzene (surr.)		11087	100.0	%	98.0	98		09/27/2004

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

TestAmerica

ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1702	1.0		COMPLETE				10/06/2004
Barium, Diss (ICP) mdl	6426		0.9615	mg/L	0.024	0.9196	93		10/06/2004
Chromium, Diss (ICP) mdl	6442		0.9615	mg/L	<0.0080	0.9438	98	IE	10/06/2004
Silver, Diss (ICP) mdl	6440		0.9804	mg/L	<0.0038	0.7359	75		10/06/2004
Arsenic, Diss (GFAA) mdl	52		0.0227	mg/L	<0.00036	0.0251	111		10/01/2004
Cadmium, Diss (GFAA) mdl	40		0.00119	mg/L	<0.00014	0.00123	103		10/01/2004
Lead, Diss (GFAA) mdl	44		0.0227	mg/L	<0.00050	0.0235	104		09/27/2004
Selenium, Diss (GFAA) mdl	39		0.0238	mg/L	<0.0015	0.0208	87		09/28/2004

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job Number: 04.13342

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Dissolved ICP Metals		1702	COMPLETE	COMPLETE				10/06/2004	20
Barium, Diss (ICP) mdl		6426	0.062	0.063	mg/L	1.6		10/06/2004	20
Chromium, Diss (ICP) mdl		6442	<0.010	<0.010	mg/L		IE	10/06/2004	20
Silver, Diss (ICP) mdl		6440	<0.0038	<0.0038	mg/L			10/06/2004	20
Arsenic, Diss (GFAA) mdl		52	0.00750	0.00804	mg/L	6.9		10/01/2004	20
Cadmium, Diss (GFAA) mdl		40	<0.00014	<0.00014	mg/L			10/01/2004	20
Lead, Diss (GFAA) mdl		44	<0.00050	<0.00050	mg/L			09/27/2004	20
Selenium, Diss (GFAA) mdl		39	<0.0015	<0.0015	mg/L			09/28/2004	20

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Cindy Quast

Job Number: 04.13342

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Amount		
Cyanide, Total mdl		1402	0.205	<0.0022	0.198	mg/L	103.5	0.211	0.198	mg/L	106.6	2.9
Mercury, diss mdl		800	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
VOLATILE COMPOUNDS												
Benzene		5771	24	<0.25	20	ug/L	120.0	22.3	20.0	ug/L	111.5	7.3
Chlorobenzene		5771	22	<0.25	20	ug/L	110.0	22.2	20.0	ug/L	111.0	0.9
1,1-Dichloroethene		5771	24	<0.25	20	ug/L	120.0	24.4	20.0	ug/L	122.0	1.7
Ethylbenzene		5771	20.1	<0.43	20.0	ug/L	100.5	20.6	20.0	ug/L	103.0	2.5
1,2,4-Trimethylbenzene		5771	13.0	<0.25	20.0	ug/L	65.0	16.2	20.0	ug/L	81.0	21.9
Toluene		5771	22	<0.25	20	ug/L	110.0	21.5	20.0	ug/L	107.5	2.3
1,3,5-Trimethylbenzene		5771	14.1	<0.14	20.0	ug/L	70.5	17.4	20.0	ug/L	87.0	21.0
BNA - 8270 AQUEOUS WI												
Acenaphthene	447	849	158	<6.3	217.4	ug/L	72.7	170	217.4	ug/L	78.2	7.3
1,4-Dichlorobenzene	447	849	125	<4.6	217.4	ug/L	57.5	124	217.4	ug/L	57.0	0.8
2,4-Dinitrotoluene	447	849	198	82.4	217.4	ug/L	53.2	210	217.4	ug/L	58.7	5.9
N-Nitrosodi-n-propylamine	447	849	154	<5.29	217.4	ug/L	70.8	160	217.4	ug/L	73.6	3.8
Pyrene	447	849	177	<6.1	217.4	ug/L	81.4	183	217.4	ug/L	84.2	3.3
1,2,4-Trichlorobenzene	447	849	129	<5.06	217.4	ug/L	59.3	132	217.4	ug/L	60.7	2.3
4-Chloro-3-methylphenol	447	849	173	<5.9	217.4	ug/L	79.6	183	217.4	ug/L	84.2	5.6
2-chlorophenol	447	849	130	<5.38	217.4	ug/L	59.8	136	217.4	ug/L	62.6	4.5
4-Nitrophenol	447	849	89.3	<3.9	217.4	ug/L	41.1	103	217.4	ug/L	47.4	14.2
Pentachlorophenol	447	849	215	<6.03	217.4	ug/L	98.9	226	217.4	ug/L	104.0	5.0
Phenol	447	849	72.6	17.6	217.4	ug/L	25.3	79.2	217.4	ug/L	28.3	8.7
VOLATILES - BTEX (WATER)												
Benzene		11087	75.1	<2.0	100.	ug/L	75.1	75.4	100.	ug/L	75.4	0.4
Toluene		11087	87.0	<2.0	100.	ug/L	87.0	87.1	100.	ug/L	87.1	0.1
Ethylbenzene		11087	92.9	<2.0	100.	ug/L	92.9	92.7	100.	ug/L	92.7	0.2
Xylenes, Total		11087	188.	<3.0	200.	ug/L	94.0	188	200	ug/L	94.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/11/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.13342

Analyte	Prep	Run	LCS	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch								
Cyanide, Total mdl		1402	0.198	mg/L	0.197		99.5	90 - 110		20
Mercury, diss mdl		800	1.64	ug/L	1.64		100.0	80 - 125		20
VOLATILE COMPOUNDS										
Benzene		5771	20.0	ug/L	22.0		110.0	81 - 124		27
Chlorobenzene		5771	20.0	ug/L	21.4		107.0	77 - 125		28
1,1-Dichloroethene		5771	20.0	ug/L	24.0		120.0	53 - 143		28
Ethylbenzene		5771	20.0	ug/L	20.8		104.0	65 - 140		24
MTBE		5771	20.0	ug/L	20.0		100.0	70 - 133		26
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8		104.0	59 - 145		23
Toluene		5771	20.0	ug/L	21.4		107.0	73 - 127		21
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6		108.0	63 - 141		24
Trichloroethylene		5771	20.0	ug/L	21.4		107.0	81 - 121		16
Xylenes, Total		5771	60.0	ug/L	63.5		105.8	75 - 130		20
Dibromofluoromethane (surr)		5771	100	%	102.0		102.0	85 - 118		50
Toluene-d8 (surr)		5771	100	%	99.0		99.0	76 - 120		50
4-Bromofluorobenzene (surr)		5771	100	%	102.0		102.0	76 - 116		50
VOLATILE COMPOUNDS										
Trichloroethylene		5780	20.0	ug/L	18.5		92.5	81 - 121		16
BNA - 8270 AQUEOUS WI										
Acenaphthene	447	849	100.0	ug/L	75.7		75.7	42 - 127		20
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9		44.9	30 - 101		20
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8		98.8	51 - 141		20
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9		64.9	39 - 119		20
Pyrene	447	849	100.0	ug/L	86.5		86.5	44 - 130		20
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7		46.7	35 - 105		20
Nitrobenzene-d5 (surr)	447	849	100	%	58.0		58.0	37 - 127		20
2-Fluorobiphenyl (surr)	447	849	100	%	70.0		70.0	40 - 114		20
Terphenyl-d14 (surr)	447	849	100	%	94.0		94.0	38 - 116		20
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6		79.6	41 - 127		20
2-chlorophenol	447	849	100.0	ug/L	49.0		49.0	35 - 107		20
4-Nitrophenol	447	849	100.0	ug/L	41.0		41.0	15 - 66		20
Pentachlorophenol	447	849	100.0	ug/L	95.7		95.7	19 - 109		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/11/2004

Job No: 04.13342

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Phenol	447	849	100.0	ug/L	23.4		23.4		D - 90		20
Phenol-d6 (surr)	447	849	100	%	23.0		23.0		28 - 109		20
2-Fluorophenol (surr)	447	849	100	%	34.0		34.0		30 - 140		20
Tribromophenol (surr)	447	849	100	%	98.0		98.0		44 - 134		20
PCBs Wisconsin Aqueous											
PCB-1248	236	652	5.0	ug/L	3.0	3.0	60.0	60.0	34 - 111	0.0	20
Decachlorobiphenyl (Surr.)	236	652	100	%	27	23	27.0	23.0	37 - 134	16.0	
Tetrachlorometaxylene (Sur	236	652	100	%	70	69	70.0	69.0	37 - 115	1.4	
EXTRACTABLE HYDROCARBONS-W											
Gasoline	2707	4724	2,000	ug/L	1,900	809	95.0	40.5	40 - 96	80.5	
N-Octacosane (Surr.)	2707	4724	100	%	98	95	98.0	95.0	41 - 151	3.1	20
VOLATILES - BTEX (WATER)											
Benzene		11087	100	ug/L	75.1		75.1		47 - 114		20
Toluene		11087	100.	ug/L	86.5		86.5		69 - 113		20
Ethylbenzene		11087	100.	ug/L	91.7		91.7		74 - 121		20
Alkenes, Total		11087	200	ug/L	186		93.0		72 - 114		20
Bromofluorobenzene (surr		11087	100.0	%	98.0		98.0		78 - 124		20

TestAmerica Job Number: 04.13342

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613 • 800-750-2401 • 319-277-2425 FAX

ANALYTICAL TESTING CORPORATION

Sample Receipt and Temperature Log Form

Client: HOWARD R. GREEN Project: _____

City: GEORGE RAPIDS

Date: 9-23-04 Receiver's Initials KI/MW Time (Delivered): 20:00

Temperature Record

Thermometer:

Courier:

Cooler ID# (If Applicable)

4 °C / On Ice

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

- | | |
|------------------------------------|--|
| <input type="checkbox"/> Airborne | <input type="checkbox"/> Speedy |
| <input type="checkbox"/> UPS | <input type="checkbox"/> TA Courier |
| <input type="checkbox"/> Velocity | <input type="checkbox"/> TA Field Svs |
| <input type="checkbox"/> FedEx | <input checked="" type="checkbox"/> Client |
| <input type="checkbox"/> DHL | <input type="checkbox"/> Other |
| <input type="checkbox"/> US Postal | |

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Samples(s) received same day of sampling.
- Temperature not taken:
- _____

Log-In by:

JP MF EM

OT _____

*Refer to SOP CF01-01 for Temperature Criteria

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job: 04.13407

Project Number: 722930 J23
Project: Chamberlain

Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
826648	TB-15	09/29/2004	09/24/2004
826649	Sump-1B	09/29/2004	09/24/2004
826650	GW-1	09/24/2004	09/24/2004
826651	Sump-1	09/24/2004	09/24/2004
826652	Sump-1B 6-11'	09/24/2004	09/24/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



R.L. Bindert

Organics Operations Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826648	TB-15					09/29/2004 07:00				
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826648	TB-15					09/29/2004 07:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826648	SAMPLE DESCRIPTION TB-15					DATE-TIME TAKEN 09/29/2004 07:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	0.30		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
lenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromofluoromethane (surr)	98		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	94		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	89		%			09/28/2004	dmd		5771	SW 8260B
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO. 826649	SAMPLE DESCRIPTION Sump-1B					DATE-TIME TAKEN 09/29/2004 11:45				
Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals	COMPLETE					10/06/2004	llw		1702	
Barium, Diss (ICP) mdl	0.062		mg/L	0.0013	0.0047	10/06/2004	llw		6426	SW 6010B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826649	Sump-1B					09/29/2004 11:45				
Chromium, Diss (ICP) mdl	<0.010	IE	mg/L	0.0026	0.0092	10/06/2004	llw		6442	SW 6010B
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/06/2004	llw		6440	SW 6010B
Arsenic, Diss (GFAA) mdl	<0.00036		mg/L	0.00036	0.0013	10/01/2004	mrn		52	SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014		mg/L	0.00014	0.00050	10/01/2004	mrn		40	SW 7131A
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	09/29/2004	heh		45	SW 7421
Mercury, diss mdl	0.074	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	09/28/2004	mrn		39	SW 7740
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	0.42		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	0.23		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.36		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826649	SAMPLE DESCRIPTION Sump-1B					DATE-TIME TAKEN 09/29/2004 11:45				
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
826649	Sump-1B								09/29/2004 11:45	
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	0.75		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/29/2004	dmd		5773	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	103		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI		R								
Acenaphthene	<14		ug/L	14	44	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<12.6		ug/L	12.6	37.8	10/01/2004	ake	447	849	SW 8270C
Anthracene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.
 R - Reporting limit elevated due to matrix interferences

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826649	SAMPLE DESCRIPTION Sump-1B					DATE-TIME TAKEN 09/29/2004 11:45				
Benizidine	<10.8		ug/L	10.8	32.2	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<13.6		ug/L	13.6	40.8	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<12.8		ug/L	12.8	38.6	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<13		ug/L	13	39	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<12.4		ug/L	12.4	37.0	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<13.9		ug/L	13.9	41.7	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<12		ug/L	12	38	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<13.6		ug/L	13.6	41.0	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<10.8		ug/L	10.8	32.6	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<11.6		ug/L	11.6	35.0	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	<15.2	B	ug/L	15.2	45.8	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<11.0		ug/L	11.0	32.8	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<16.4		ug/L	16.4	49.0	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<8.45		ug/L	8.45	25.4	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<11.6		ug/L	11.6	34.8	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<12.9		ug/L	12.9	38.7	10/01/2004	ake	447	849	SW 8270C
Chrysene	<13.4		ug/L	13.4	40.0	10/01/2004	ake	447	849	SW 8270C
Dibenzo(a,h)anthracene	<13.6		ug/L	13.6	41.0	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<9.85		ug/L	9.85	29.6	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<12.4		ug/L	12.4	37.4	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<10		ug/L	10	32	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<7.75		ug/L	7.75	23.2	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<12.4		ug/L	12.4	37.4	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<11.8		ug/L	11.8	35.4	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826649	Sump-1B					09/29/2004 11:45				
Dimethyl phthalate	<12.9		ug/L	12.9	38.7	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<7.75		ug/L	7.75	23.2	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<14.1		ug/L	14.1	42.3	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<10.4		ug/L	10.4	31.2	10/01/2004	ake	447	849	SW 8270C
Fluorene	<10.6		ug/L	10.6	32.0	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<10.8		ug/L	10.8	32.2	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<12.0		ug/L	12.0	36.2	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<8.90		ug/L	8.90	26.7	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<9.70		ug/L	9.70	29.1	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<13		ug/L	13	39	10/01/2004	ake	447	849	SW 8270C
Isophorone	<11.8		ug/L	11.8	35.6	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<11.2		ug/L	11.2	33.4	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<13.4		ug/L	13.4	40.2	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<11.2		ug/L	11.2	33.8	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<9.20		ug/L	9.20	27.6	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<6.80		ug/L	6.80	20.4	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<10.2		ug/L	10.2	30.6	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<10.0		ug/L	10.0	30.2	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<12.2		ug/L	12.2	36.6	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<13.8		ug/L	13.8	41.4	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<8.55		ug/L	8.55	25.6	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<12.8		ug/L	12.8	38.4	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<12.8		ug/L	12.8	38.2	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<7.55		ug/L	7.55	22.6	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826649	Sump-1B					09/29/2004 11:45				
Pyrene	<14		ug/L	14	42	10/01/2004	ake	447	849	SW 8270C
Pyridine	<6.80		ug/L	6.80	20.4	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<12.3		ug/L	12.3	36.9	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<11.6		ug/L	11.6	35.0	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	83		%	500	500	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	87		%	500	500	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	96		%	500	500	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<50.0		ug/L	50.0	150	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<14		ug/L	14	40	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<12.4		ug/L	12.4	37.2	10/01/2004	ake	447	849	SW 8270C
esols, Total	<22.1		ug/L	22.1	66.5	10/01/2004	ake	447	849	SW 8270C
4-Dichlorophenol	<13.3		ug/L	13.3	39.9	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<7.45		ug/L	7.45	22.4	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<14.9		ug/L	14.9	44.7	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<10		ug/L	10	32	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<13.8		ug/L	13.8	41.4	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<9.0		ug/L	9.0	27	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<21.0		ug/L	21.0	63.0	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<13.9		ug/L	13.9	41.7	10/01/2004	ake	447	849	SW 8270C
Phenol	<8.60		ug/L	8.60	25.8	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<16.1		ug/L	16.1	48.3	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<18.3		ug/L	18.3	55.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	38	L	%	500	500	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	54		%	500	500	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	103		%	500	500	10/01/2004	ake	447	849	SW 8270C

L - LCS recovery is outside of control limits.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826649	SAMPLE DESCRIPTION Sump-1B					DATE-TIME TAKEN 09/29/2004 11:45				
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous		R								
PCB 1016	<0.5		ug/L	0.5	2	10/11/2004	kak	236	654	SW 8082
PCB-1242	<0.4		ug/L	0.4	1	10/11/2004	kak	236	654	SW 8082
PCB-1221	<2		ug/L	2	8	10/11/2004	kak	236	654	SW 8082
PCB-1232	<0.1		ug/L	0.1	0.4	10/11/2004	kak	236	654	SW 8082
PCB-1248	<0.3		ug/L	0.3	1	10/11/2004	kak	236	654	SW 8082
PCB-1254	<0.5		ug/L	0.5	1	10/11/2004	kak	236	654	SW 8082
PCB-1260	<0.5		ug/L	0.5	1	10/11/2004	kak	236	654	SW 8082
PCB-1268	<5		ug/L	5	5	10/11/2004	kak	236	654	SW 8082
Decachlorobiphenyl (Surr.)	52		%			10/11/2004	kak	236	654	SW 8082
Tetrachlorometaxylene (Surr.)	52		%			10/11/2004	kak	236	654	SW 8082
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
Cyanide, Total mdl	0.0048		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals	COMPLETE					10/06/2004	llw		1702	
Barium, Diss (ICP) mdl	0.024		mg/L	0.0013	0.0047	10/06/2004	llw		6426	SW 6010B
Chromium, Diss (ICP) mdl	<0.0080	IE	mg/L	0.0026	0.0092	10/06/2004	llw		6442	SW 6010B
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/06/2004	llw		6440	SW 6010B

IE - Elevated Reporting Limit due to interelement interference.
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
Arsenic, Diss (GFAA) mdl	<0.00036		mg/L	0.00036	0.0013	10/01/2004	mrm		52	SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014		mg/L	0.00014	0.00050	10/01/2004	mrm		40	SW 7131A
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	09/29/2004	heh		45	SW 7421
Mercury, diss mdl	0.060	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	09/28/2004	mrm		39	SW 7740
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	0.28		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/29/2004	dmd		5773	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	105		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	90		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	88		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI		R								
Acenaphthene	<14		ug/L	14	44	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<12.6		ug/L	12.6	37.8	10/01/2004	ake	447	849	SW 8270C
Anthracene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C
Benzenidine	<10.8		ug/L	10.8	32.2	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<13.6		ug/L	13.6	40.8	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.
 R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
826650	GW-1								09/24/2004 10:30	
Benzo(b)fluoranthene	<12.8		ug/L	12.8	38.6	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<13		ug/L	13	39	10/01/2004	ake	447	849	SW 8270C
Benzo(a)pyrene	<12.4		ug/L	12.4	37.0	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<13.9		ug/L	13.9	41.7	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<12		ug/L	12	38	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<13.6		ug/L	13.6	41.0	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<10.8		ug/L	10.8	32.6	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<11.6		ug/L	11.6	35.0	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	<15.2	B	ug/L	15.2	45.8	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<11.0		ug/L	11.0	32.8	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<16.4		ug/L	16.4	49.0	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<8.45		ug/L	8.45	25.4	10/01/2004	ake	447	849	SW 8270C
2-Chloronaphthalene	<11.6		ug/L	11.6	34.8	10/01/2004	ake	447	849	SW 8270C
4-Chlorophenylphenyl ether	<12.9		ug/L	12.9	38.7	10/01/2004	ake	447	849	SW 8270C
Chrysene	<13.4		ug/L	13.4	40.0	10/01/2004	ake	447	849	SW 8270C
Dibenzo(a,h)anthracene	<13.6		ug/L	13.6	41.0	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<9.85		ug/L	9.85	29.6	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	<12.4		ug/L	12.4	37.4	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<10		ug/L	10	32	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<7.75		ug/L	7.75	23.2	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<12.4		ug/L	12.4	37.4	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<11.8		ug/L	11.8	35.4	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<12.9		ug/L	12.9	38.7	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
2,6-Dinitrotoluene	<7.75		ug/L	7.75	23.2	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<14.1		ug/L	14.1	42.3	10/01/2004	ake	447	849	SW 8270C
Fluoranthene	<10.4		ug/L	10.4	31.2	10/01/2004	ake	447	849	SW 8270C
Fluorene	<10.6		ug/L	10.6	32.0	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<10.8		ug/L	10.8	32.2	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<12.0		ug/L	12.0	36.2	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<8.90		ug/L	8.90	26.7	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<9.70		ug/L	9.70	29.1	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<13		ug/L	13	39	10/01/2004	ake	447	849	SW 8270C
Isophorone	<11.8		ug/L	11.8	35.6	10/01/2004	ake	447	849	SW 8270C
Methylnaphthalene	<11.2		ug/L	11.2	33.4	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<13.4		ug/L	13.4	40.2	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<11.2		ug/L	11.2	33.8	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<9.20		ug/L	9.20	27.6	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<6.80		ug/L	6.80	20.4	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<10.2		ug/L	10.2	30.6	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<10.0		ug/L	10.0	30.2	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<12.2		ug/L	12.2	36.6	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<13.8		ug/L	13.8	41.4	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<8.55		ug/L	8.55	25.6	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<12.8		ug/L	12.8	38.4	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<12.8		ug/L	12.8	38.2	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<7.55		ug/L	7.55	22.6	10/01/2004	ake	447	849	SW 8270C
Pyrene	<14		ug/L	14	42	10/01/2004	ake	447	849	SW 8270C
Pyridine	<6.80		ug/L	6.80	20.4	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826650	GW-1					09/24/2004 10:30				
1,2,4,5-Tetrachlorobenzene	<12.3		ug/L	12.3	36.9	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<11.6		ug/L	11.6	35.0	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene-d5 (surr)	65		%	500	500	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	74		%	500	500	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	84		%	500	500	10/01/2004	ake	447	849	SW 8270C
Benzóic Acid	<50.0		ug/L	50.0	150	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<14		ug/L	14	40	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<12.4		ug/L	12.4	37.2	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<22.1		ug/L	22.1	66.5	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<13.3		ug/L	13.3	39.9	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<7.45		ug/L	7.45	22.4	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<13.0		ug/L	13.0	38.8	10/01/2004	ake	447	849	SW 8270C
2-Methyl-4,6-dinitrophenol	<14.9		ug/L	14.9	44.7	10/01/2004	ake	447	849	SW 8270C
4-Methylphenol	<10		ug/L	10	32	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<13.8		ug/L	13.8	41.4	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<9.0		ug/L	9.0	27	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<21.0		ug/L	21.0	63.0	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<13.9		ug/L	13.9	41.7	10/01/2004	ake	447	849	SW 8270C
Phenol	<8.60		ug/L	8.60	25.8	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<16.1		ug/L	16.1	48.3	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<18.3		ug/L	18.3	55.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	31	L	%	500	500	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	42		%	500	500	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	87		%	500	500	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous		R								

L - LCS recovery is outside of control limits.

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826650	SAMPLE DESCRIPTION GW-1					DATE-TIME TAKEN 09/24/2004 10:30				
PCB 1016	<1.0		ug/L	1.0	3.0	10/11/2004	kak	236	654	SW 8082
PCB-1242	<0.85		ug/L	0.85	2.6	10/11/2004	kak	236	654	SW 8082
PCB-1221	<4.9		ug/L	4.9	15	10/11/2004	kak	236	654	SW 8082
PCB-1232	<0.27		ug/L	0.27	0.81	10/11/2004	kak	236	654	SW 8082
PCB-1248	<0.65		ug/L	0.65	2.0	10/11/2004	kak	236	654	SW 8082
PCB-1254	<0.98		ug/L	0.98	2.9	10/11/2004	kak	236	654	SW 8082
PCB-1260	<0.91		ug/L	0.91	2.7	10/11/2004	kak	236	654	SW 8082
PCB-1268	<10		ug/L	10	10	10/11/2004	kak	236	654	SW 8082
Decachlorobiphenyl (Surr.)	46		%			10/11/2004	kak	236	654	SW 8082
Tetrachlorometaxylene (Surr.)	43		%			10/11/2004	kak	236	654	SW 8082
Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
826651	Sump-1	09/24/2004 14:40
Cyanide, Total mdl	<0.0022	mg/L 0.0022 0.0078 10/04/2004 lbb 1402 EPA 335.4
Dissolved ICP Metals	COMPLETE	10/06/2004 llw 1702
Barium, Diss (ICP) mdl	0.038	mg/L 0.0013 0.0047 10/06/2004 llw 6426 SW 6010B
Chromium, Diss (ICP) mdl	<0.0080 IE	mg/L 0.0026 0.0092 10/06/2004 llw 6442 SW 6010B
Silver, Diss (ICP) mdl	<0.0038	mg/L 0.0038 0.0136 10/06/2004 llw 6440 SW 6010B
Arsenic, Diss (GFAA) mdl	<0.00036	mg/L 0.00036 0.0013 10/01/2004 mrm 52 SW 7060A
Cadmium, Diss (GFAA) mdl	<0.00014	mg/L 0.00014 0.00050 10/01/2004 mrm 40 SW 7131A

IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826651	Sump-1					09/24/2004 14:40				
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	09/29/2004	heh		45	SW 7421
Mercury, diss mdl	0.054	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	09/28/2004	mrm		39	SW 7740
Prep BNA (MDL)	Complete					09/28/2004	scb	447		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	09/28/2004	dmd		5771	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	09/28/2004	dmd		5771	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	09/28/2004	dmd		5771	SW 8260B
sec-Butylbenzene	<0.16		ug/L	0.16	0.48	09/28/2004	dmd		5771	SW 8260B
tert-Butylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloroethane	0.29		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	09/28/2004	dmd		5771	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	09/28/2004	dmd		5771	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826651	Sump-1					09/24/2004 14:40				
1,2-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	09/28/2004	dmd		5771	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
1,2-Dichloropropane	0.14		ug/L	0.12	0.36	09/28/2004	dmd		5771	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	09/28/2004	dmd		5771	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	09/28/2004	dmd		5771	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	09/28/2004	dmd		5771	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Hexane	<0.18	B	ug/L	0.18	0.54	09/28/2004	dmd		5771	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	09/28/2004	dmd		5771	SW 8260B
Napthalene	<0.86		ug/L	0.86	2.6	09/28/2004	dmd		5771	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	09/28/2004	dmd		5771	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826651	Sump-1					09/24/2004 14:40				
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	09/28/2004	dmd		5771	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	09/28/2004	dmd		5771	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,3,5-Trimethylbenzene	<0.14		ug/L	0.14	0.42	09/28/2004	dmd		5771	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	09/28/2004	dmd		5771	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	09/28/2004	dmd		5771	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	09/28/2004	dmd		5771	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	09/28/2004	dmd		5771	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	09/28/2004	dmd		5771	SW 8260B
Dibromofluoromethane (surr)	104		%			09/28/2004	dmd		5771	SW 8260B
Toluene-d8 (surr)	90		%			09/28/2004	dmd		5771	SW 8260B
4-Bromofluorobenzene (surr)	86		%			09/28/2004	dmd		5771	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/01/2004	ake	447	849	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/01/2004	ake	447	849	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
Benzidine	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/01/2004	ake	447	849	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/01/2004	ake	447	849	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826651	SAMPLE DESCRIPTION Sump-1					DATE-TIME TAKEN 09/24/2004 14:40				
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/01/2004	ake	447	849	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/01/2004	ake	447	849	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/01/2004	ake	447	849	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C
Bis(2-ethylhexyl)phthalate	47.3	B	ug/L	3.05	9.15	10/01/2004	ake	447	849	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/01/2004	ake	447	849	SW 8270C
4-Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/01/2004	ake	447	849	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/01/2004	ake	447	849	SW 8270C
Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/01/2004	ake	447	849	SW 8270C
Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/01/2004	ake	447	849	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/01/2004	ake	447	849	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/01/2004	ake	447	849	SW 8270C
Di-n-butylphthalate	3.24		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/01/2004	ake	447	849	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/01/2004	ake	447	849	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/01/2004	ake	447	849	SW 8270C
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/01/2004	ake	447	849	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/01/2004	ake	447	849	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826651	Sump-1					09/24/2004 14:40				
Fluoranthene	<2.08		ug/L	2.08	6.24	10/01/2004	ake	447	849	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/01/2004	ake	447	849	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/01/2004	ake	447	849	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/01/2004	ake	447	849	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/01/2004	ake	447	849	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/01/2004	ake	447	849	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/01/2004	ake	447	849	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/01/2004	ake	447	849	SW 8270C
2-Methylnaphthalene	<2.23		ug/L	2.23	6.69	10/01/2004	ake	447	849	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/01/2004	ake	447	849	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/01/2004	ake	447	849	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/01/2004	ake	447	849	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodimethylamine	<2.01		ug/L	2.01	6.03	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/01/2004	ake	447	849	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/01/2004	ake	447	849	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/01/2004	ake	447	849	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/01/2004	ake	447	849	SW 8270C
Pyrene	<2.8		ug/L	2.8	8.4	10/01/2004	ake	447	849	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/01/2004	ake	447	849	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/01/2004	ake	447	849	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/01/2004	ake	447	849	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826651	Sump-1					09/24/2004 14:40				
Nitrobenzene-d5 (surr)	76		%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorobiphenyl (surr)	75		%	100	100	10/01/2004	ake	447	849	SW 8270C
Terphenyl-d14 (surr)	82		%	100	100	10/01/2004	ake	447	849	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/01/2004	ake	447	849	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/01/2004	ake	447	849	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/01/2004	ake	447	849	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/01/2004	ake	447	849	SW 8270C
2,4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/01/2004	ake	447	849	SW 8270C
2,4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/01/2004	ake	447	849	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/01/2004	ake	447	849	SW 8270C
Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/01/2004	ake	447	849	SW 8270C
Methylphenol	<2.1		ug/L	2.1	6.3	10/01/2004	ake	447	849	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/01/2004	ake	447	849	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/01/2004	ake	447	849	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/01/2004	ake	447	849	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/01/2004	ake	447	849	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/01/2004	ake	447	849	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/01/2004	ake	447	849	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/01/2004	ake	447	849	SW 8270C
Phenol-d6 (surr)	32	L	%	100	100	10/01/2004	ake	447	849	SW 8270C
2-Fluorophenol (surr)	45		%	100	100	10/01/2004	ake	447	849	SW 8270C
Tribromophenol (surr)	92		%	100	100	10/01/2004	ake	447	849	SW 8270C
Prep PCBs Wisconsin Aqueous	Complete					09/27/2004	acm	236		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/11/2004	kak	236	654	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/11/2004	kak	236	654	SW 8082

L - LCS recovery is outside of control limits.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826651	SAMPLE DESCRIPTION Sump-1					DATE-TIME TAKEN 09/24/2004 14:40				
PCB-1221	<0.49		ug/L	0.49	1.5	10/11/2004	kak	236	654	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/11/2004	kak	236	654	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/11/2004	kak	236	654	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/11/2004	kak	236	654	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/11/2004	kak	236	654	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/11/2004	kak	236	654	SW 8082
Decachlorobiphenyl (Surr.)	68		%			10/11/2004	kak	236	654	SW 8082
Tetrachlorometaxylene (Surr.)	66		%			10/11/2004	kak	236	654	SW 8082
VOA Preservation pH	<2		units	NA		09/30/2004	mmk		1059	SW 9041A

SAMPLE NO. 826652 **SAMPLE DESCRIPTION** Sump-1B 6-11' **DATE-TIME TAKEN** 09/24/2004 12:45

5035 VOC Preservation	Complete					09/24/2004	sm1		19	SW 846 - 5035
Cyanide, mdl	1.66	MSO	mg/kg dw	0.27	1.2	10/08/2004	lbb		878	SW 9012
Solids, Total	41.10		%	0.01	0.01	09/28/2004	sas		2770	SM 2540 G
Arsenic, (GFAA) mdl	17.2	MSO	mg/kg dw	0.51	2.4	10/01/2004	mrn	914	634	SW 7060A
Mercury, mdl	0.11		mg/kg dw	0.0029	0.010	09/29/2004	heh		2065	SW 7471A
GFAA Metals Digestion	1.030		g			09/28/2004	tdo	914		SW 3050 B
ICP Metals Prep (Solid)	1.023		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	180		mg/kg dw	0.474	1.2	10/04/2004	llw	1510	2811	SW 6010B

IE - Elevated Reporting Limit due to interelement interference.
 MSO - MS and/or MSD recoveries are outside of control limits

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
Cadmium, (ICP) mdl	9.2		mg/kg dw	0.58	2.0	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	130		mg/kg dw	0.95	2.4	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	63,300	MSO, *	mg/kg dw	12	12	10/04/2004	llw	1510	2833	SW 6010B
Selenium, (ICP) mdl	<54		mg/kg dw	18	18	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	<4.1		mg/kg dw	1.4	2.4	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/27/2004	acm	114		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					09/27/2004	acm	836		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	85.2		ug/kg dw	19	58	09/29/2004	mmk		1056	SW 8260B
Benzene	3.21		ug/kg dw	1.3	4.01	09/29/2004	mmk		1056	SW 8260B
Bromobenzene	<1.7		ug/kg dw	1.7	5.11	09/29/2004	mmk		1056	SW 8260B
Bromochloromethane	<2.3		ug/kg dw	2.3	6.93	09/29/2004	mmk		1056	SW 8260B
Bromodichloromethane	<5.47		ug/kg dw	5.47	16.4	09/29/2004	mmk		1056	SW 8260B
Bromoform	<8.15		ug/kg dw	8.15	24.3	09/29/2004	mmk		1056	SW 8260B
Bromomethane	<11.9		ug/kg dw	11.9	35.3	09/29/2004	mmk		1056	SW 8260B
Methyl ethyl ketone (MEK)	3.07		ug/kg dw	2.1	4.87	09/29/2004	mmk		1056	SW 8260B
n-Butylbenzene	<12		ug/kg dw	1.1	12	09/29/2004	mmk		1056	SW 8260B
sec-Butylbenzene	<12		ug/kg dw	3.53	12	09/29/2004	mmk		1056	SW 8260B
tert-Butylbenzene	<12		ug/kg dw	1	12	09/29/2004	mmk		1056	SW 8260B
Carbon tetrachloride	<15		ug/kg dw	15	43.8	09/29/2004	mmk		1056	SW 8260B
Chlorobenzene	<1.03		ug/kg dw	1.03	3.102	09/29/2004	mmk		1056	SW 8260B
Chlorodibromomethane	<3.41		ug/kg dw	3.41	10.2	09/29/2004	mmk		1056	SW 8260B
Chloroethane	<1.7		ug/kg dw	1.7	5.11	09/29/2004	mmk		1056	SW 8260B
Chloroform	<2.1		ug/kg dw	2.1	6.20	09/29/2004	mmk		1056	SW 8260B
Chloromethane	<1		ug/kg dw	1	3.6	09/29/2004	mmk		1056	SW 8260B
2-Chlorotoluene	<1.6		ug/kg dw	1.6	4.74	09/29/2004	mmk		1056	SW 8260B

* - Sample concentration is greater than four times the spike concentration
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
4-Chlorotoluene	<1.3		ug/kg dw	1.3	4.01	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromo-3-chloropropane	<24		ug/kg dw	24	73	09/29/2004	mmk		1056	SW 8260B
1,2-Dibromoethane (EDB)	<7.18		ug/kg dw	7.18	21.5	09/29/2004	mmk		1056	SW 8260B
Dibromomethane	<1.8		ug/kg dw	1.8	5.47	09/29/2004	mmk		1056	SW 8260B
1,2-Dichlorobenzene	<2.7		ug/kg dw	2.7	8.0	09/29/2004	mmk		1056	SW 8260B
1,3-Dichlorobenzene	<2.7		ug/kg dw	2.7	8.0	09/29/2004	mmk		1056	SW 8260B
1,4-Dichlorobenzene	<1.6		ug/kg dw	1.6	4.74	09/29/2004	mmk		1056	SW 8260B
Dichlorodifluoromethane	<2.3		ug/kg dw	2.3	6.93	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethane	<1.9		ug/kg dw	1.9	5.8	09/29/2004	mmk		1056	SW 8260B
1,2-Dichloroethane	<2.7		ug/kg dw	2.7	8.0	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloroethene	<0.815		ug/kg dw	0.815	2.43	09/29/2004	mmk		1056	SW 8260B
cis-1,2-Dichloroethene	<2.3		ug/kg dw	2.3	6.93	09/29/2004	mmk		1056	SW 8260B
trans-1,2-Dichloroethene	<1.8		ug/kg dw	1.8	5.47	09/29/2004	mmk		1056	SW 8260B
1,2-Dichloropropane	<1.0		ug/kg dw	1.0	3.14	09/29/2004	mmk		1056	SW 8260B
1,3-Dichloropropane	<2.1		ug/kg dw	2.1	6.20	09/29/2004	mmk		1056	SW 8260B
2,2-Dichloropropane	<0.88		ug/kg dw	0.88	2.63	09/29/2004	mmk		1056	SW 8260B
1,1-Dichloropropene	<2.1		ug/kg dw	2.1	6.20	09/29/2004	mmk		1056	SW 8260B
cis-1,3-Dichloropropene	<1.9		ug/kg dw	1.9	5.84	09/29/2004	mmk		1056	SW 8260B
trans-1,3-Dichloropropene	<1.8		ug/kg dw	1.8	5.47	09/29/2004	mmk		1056	SW 8260B
Ethylbenzene	1.9		ug/kg dw	1.3	4.01	09/29/2004	mmk		1056	SW 8260B
Hexachlorobutadiene	<7.06		ug/kg dw	7.06	21.2	09/29/2004	mmk		1056	SW 8260B
2-Hexanone	<1.3		ug/kg dw	1.3	4.87	09/29/2004	mmk		1056	SW 8260B
Isopropylbenzene	<0.88		ug/kg dw	0.88	2.63	09/29/2004	mmk		1056	SW 8260B
p-Isopropyltoluene	<1		ug/kg dw	1	3.6	09/29/2004	mmk		1056	SW 8260B
Methylene chloride	<120		ug/kg dw	17	120	09/29/2004	mmk		1056	SW 8260B
Methyl isobutyl ketone	<1.7		ug/kg dw	1.7	4.87	09/29/2004	mmk		1056	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
MTBE	<11.6		ug/kg dw	11.6	34.5	09/29/2004	mmk		1056	SW 8260B
Naphthalene	<12		ug/kg dw	1.9	12	09/29/2004	mmk		1056	SW 8260B
n-Propylbenzene	<12		ug/kg dw	1.3	12	09/29/2004	mmk		1056	SW 8260B
Styrene	<0.92		ug/kg dw	0.92	2.77	09/29/2004	mmk		1056	SW 8260B
1,1,1,2-Tetrachloroethane	<4.38		ug/kg dw	4.38	13.1	09/29/2004	mmk		1056	SW 8260B
1,1,2,2-Tetrachloroethane	<2.7		ug/kg dw	2.7	8.0	09/29/2004	mmk		1056	SW 8260B
Tetrachloroethene	<1.6		ug/kg dw	1.6	4.74	09/29/2004	mmk		1056	SW 8260B
Toluene	8.86		ug/kg dw	1.7	5.11	09/29/2004	mmk		1056	SW 8260B
1,2,3-Trichlorobenzene	<12		ug/kg dw	3.9	12	09/29/2004	mmk		1056	SW 8260B
1,2,4-Trichlorobenzene	<12		ug/kg dw	0.78	12	09/29/2004	mmk		1056	SW 8260B
1,1,1-Trichloroethane	<2.55		ug/kg dw	2.55	7.66	09/29/2004	mmk		1056	SW 8260B
1,2-Trichloroethane	<2.9		ug/kg dw	2.9	8.8	09/29/2004	mmk		1056	SW 8260B
Trichloroethylene	4.40		ug/kg dw	2.3	6.93	09/29/2004	mmk		1056	SW 8260B
Trichlorofluoromethane	<1.1		ug/kg dw	1.1	3.26	09/29/2004	mmk		1056	SW 8260B
1,2,3-Trichloropropane	<2.2		ug/kg dw	2.2	6.6	09/29/2004	mmk		1056	SW 8260B
1,2,4-Trimethylbenzene	<12		ug/kg dw	3.4	12	09/29/2004	mmk		1056	SW 8260B
1,3,5-Trimethylbenzene	<12		ug/kg dw	5.6	12	09/29/2004	mmk		1056	SW 8260B
Vinyl Chloride	<1.8		ug/kg dw	1.8	5.47	09/29/2004	mmk		1056	SW 8260B
Xylenes, Total	<12		ug/kg dw	3.9	12	09/29/2004	mmk		1056	SW 8260B
4-Bromofluorobenzene (surr)	97		%			09/29/2004	mmk		1056	SW 8260B
Dibromofluoromethane (surr)	101		%			09/29/2004	mmk		1056	SW 8260B
Toluene-d8 (surr)	102		%			09/29/2004	mmk		1056	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<1.6	MSO	mg/kg dw	1.6	4.57	09/28/2004	ake	114	183	SW 8270C
Acenaphthylene	<1.5		mg/kg dw	1.5	4.28	09/28/2004	ake	114	183	SW 8270C
Anthracene	<0.97		mg/kg dw	0.97	2.82	09/28/2004	ake	114	183	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
Benzidine	<2.4		mg/kg dw	2.4	7.13	09/28/2004	ake	114	183	SW 8270C
Benzo (a) anthracene	<0.88		mg/kg dw	0.88	2.53	09/28/2004	ake	114	183	SW 8270C
Benzo (b) fluoranthene	<0.88		mg/kg dw	0.88	2.68	09/28/2004	ake	114	183	SW 8270C
Benzo (k) fluoranthene	<1.2		mg/kg dw	1.2	3.55	09/28/2004	ake	114	183	SW 8270C
Benzo (a) pyrene	<1.2		mg/kg dw	1.2	3.55	09/28/2004	ake	114	183	SW 8270C
Benzo (ghi) perylene	<0.97		mg/kg dw	0.97	2.82	09/28/2004	ake	114	183	SW 8270C
Benzyl alcohol	<1.9		mg/kg dw	1.9	5.91	09/28/2004	ake	114	183	SW 8270C
Benzyl butyl phthalate	<1.1		mg/kg dw	1.1	3.11	09/28/2004	ake	114	183	SW 8270C
Bis (2-chloroethyl) ether	<1.9		mg/kg dw	1.9	5.67	09/28/2004	ake	114	183	SW 8270C
Bis (2-chloroethoxy) methane	<1.8		mg/kg dw	1.8	5.38	09/28/2004	ake	114	183	SW 8270C
Bis (2-ethylhexyl) phthalate	5.4		mg/kg dw	0.78	2.3	09/28/2004	ake	114	183	SW 8270C
Bis (2chloroisopropyl) ether	<2.1		mg/kg dw	2.1	6.25	09/28/2004	ake	114	183	SW 8270C
4-Bromophenyl phenyl ether	<1.2		mg/kg dw	1.2	3.48	09/28/2004	ake	114	183	SW 8270C
Carbazole	<0.97		mg/kg dw	0.97	2.82	09/28/2004	ake	114	183	SW 8270C
4-Chloroaniline	<2.51		mg/kg dw	2.51	7.54	09/28/2004	ake	114	183	SW 8270C
2-Chloronaphthalene	<1.7		mg/kg dw	1.7	4.9	09/28/2004	ake	114	183	SW 8270C
4-Chlorophenylphenyl ether	<1.4		mg/kg dw	1.4	3.99	09/28/2004	ake	114	183	SW 8270C
Chrysene	<0.73		mg/kg dw	0.73	2.2	09/28/2004	ake	114	183	SW 8270C
Dibenzo (a, h) anthracene	<1.8		mg/kg dw	1.8	5.62	09/28/2004	ake	114	183	SW 8270C
Dibenzofuran	<1.2		mg/kg dw	1.2	3.41	09/28/2004	ake	114	183	SW 8270C
Di-n-butylphthalate	<1.1		mg/kg dw	1.1	3.11	09/28/2004	ake	114	183	SW 8270C
1,2-Dichlorobenzene	<2.48		mg/kg dw	2.48	7.45	09/28/2004	ake	114	183	SW 8270C
1,3-Dichlorobenzene	<2.2		mg/kg dw	2.2	6.69	09/28/2004	ake	114	183	SW 8270C
1,4-Dichlorobenzene	<2.0	MSO	mg/kg dw	2.0	6.20	09/28/2004	ake	114	183	SW 8270C
3,3-Dichlorobenzidine	<2.58		mg/kg dw	2.58	7.74	09/28/2004	ake	114	183	SW 8270C
Diethyl phthalate	<1.2		mg/kg dw	1.2	3.41	09/28/2004	ake	114	183	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
Dimethyl phthalate	<1.0		mg/kg dw	1.0	3.04	09/28/2004	ake	114	183	SW 8270C
2,4-Dinitrotoluene	<1.2	MSO	mg/kg dw	1.2	3.41	09/28/2004	ake	114	183	SW 8270C
2,6-Dinitrotoluene	<1.6		mg/kg dw	1.6	4.79	09/28/2004	ake	114	183	SW 8270C
Di-n-octylphthalate	<1.5		mg/kg dw	1.5	4.4	09/28/2004	ake	114	183	SW 8270C
Fluoranthene	<0.88		mg/kg dw	0.88	2.60	09/28/2004	ake	114	183	SW 8270C
Fluorene	<1.3		mg/kg dw	1.3	3.84	09/28/2004	ake	114	183	SW 8270C
Hexachlorobenzene	<0.68		mg/kg dw	0.68	2.1	09/28/2004	ake	114	183	SW 8270C
Hexachlorocyclopentadiene	<1.4		mg/kg dw	1.4	4.21	09/28/2004	ake	114	183	SW 8270C
Hexachloro-1,3-butadiene	<1.7		mg/kg dw	1.7	4.84	09/28/2004	ake	114	183	SW 8270C
Hexachloroethane	<2.0		mg/kg dw	2.0	5.96	09/28/2004	ake	114	183	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.78		mg/kg dw	0.78	2.2	09/28/2004	ake	114	183	SW 8270C
Isophorone	<1.5		mg/kg dw	1.5	4.28	09/28/2004	ake	114	183	SW 8270C
2-Methylnaphthalene	<1.6		mg/kg dw	1.6	4.65	09/28/2004	ake	114	183	SW 8270C
Naphthalene	<1.8		mg/kg dw	1.8	5.33	09/28/2004	ake	114	183	SW 8270C
2-Nitroaniline	<1.7		mg/kg dw	1.7	4.9	09/28/2004	ake	114	183	SW 8270C
3-Nitroaniline	<1.5		mg/kg dw	1.5	4.28	09/28/2004	ake	114	183	SW 8270C
4-Nitroaniline	<1.7		mg/kg dw	1.7	5.04	09/28/2004	ake	114	183	SW 8270C
Nitrobenzene	<1.8		mg/kg dw	1.8	5.52	09/28/2004	ake	114	183	SW 8270C
N-Nitrosodimethylamine	<2.68		mg/kg dw	2.68	8.03	09/28/2004	ake	114	183	SW 8270C
N-Nitrosodiphenylamine	<0.83		mg/kg dw	0.83	2.46	09/28/2004	ake	114	183	SW 8270C
N-Nitrosodi-n-propylamine	<2.0	MSO	mg/kg dw	2.0	6.01	09/28/2004	ake	114	183	SW 8270C
Phenanthrene	<0.92		mg/kg dw	0.92	2.75	09/28/2004	ake	114	183	SW 8270C
Pyrene	<1.2	MSO	mg/kg dw	1.2	3.6	09/28/2004	ake	114	183	SW 8270C
Pyridine	<2.70		mg/kg dw	2.70	8.13	09/28/2004	ake	114	183	SW 8270C
1,2,4-Trichlorobenzene	<1.8	MSO	mg/kg dw	1.8	5.33	09/28/2004	ake	114	183	SW 8270C
Nitrobenzene-d5 (surr)	27		%			09/28/2004	ake	114	183	SW 8270C

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
826652	Sump-1B 6-11'					09/24/2004 12:45				
2-Fluorobiphenyl (surr)	23	OOO	%			09/28/2004	ake	114	183	SW 8270C
Terphenyl-d14 (surr)	16		%			09/28/2004	ake	114	183	SW 8270C
Benzoic Acid	<7.8		mg/kg dw	7.8	24	09/28/2004	ake	114	183	SW 8270C
4-Chloro-3-methylphenol	<1.8	MSO	mg/kg dw	1.8	5.23	09/28/2004	ake	114	183	SW 8270C
2-chlorophenol	<2.1	MSO	mg/kg dw	2.1	6.25	09/28/2004	ake	114	183	SW 8270C
2-Methylphenol	<1.9		mg/kg dw	1.9	5.67	09/28/2004	ake	114	183	SW 8270C
4-Methylphenol	<1.9		mg/kg dw	1.9	5.8	09/28/2004	ake	114	183	SW 8270C
Cresols, Total	<3.82		mg/kg dw	3.82	11.5	09/28/2004	ake	114	183	SW 8270C
2,4-Dichlorophenol	<1.8		mg/kg dw	1.8	5.38	09/28/2004	ake	114	183	SW 8270C
2,4-Dimethylphenol	<1.6		mg/kg dw	1.6	4.57	09/28/2004	ake	114	183	SW 8270C
2,4-Dinitrophenol	<0.68		mg/kg dw	0.68	2.0	09/28/2004	ake	114	183	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.53		mg/kg dw	2.53	7.64	09/28/2004	ake	114	183	SW 8270C
2-Nitrophenol	<2.70		mg/kg dw	2.70	8.13	09/28/2004	ake	114	183	SW 8270C
4-Nitrophenol	<1.6	MSO	mg/kg dw	1.6	4.79	09/28/2004	ake	114	183	SW 8270C
Pentachlorophenol	<1.8	MSO	mg/kg dw	1.8	5.62	09/28/2004	ake	114	183	SW 8270C
Phenol	<1.8	MSO	mg/kg dw	1.8	5.62	09/28/2004	ake	114	183	SW 8270C
2,4,5-Trichlorophenol	<1.7		mg/kg dw	1.7	5.04	09/28/2004	ake	114	183	SW 8270C
2,4,6-Trichlorophenol	<1.3		mg/kg dw	1.3	3.92	09/28/2004	ake	114	183	SW 8270C
Phenol-d6 (surr)	31		%			09/28/2004	ake	114	183	SW 8270C
2-Fluorophenol (surr)	27		%			09/28/2004	ake	114	183	SW 8270C
Tribromophenol (surr)	37		%			09/28/2004	ake	114	183	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.61		mg/kg dw	0.36	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1221	<0.61		mg/kg dw	0.46	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1232	<0.61		mg/kg dw	0.071	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1242	<0.61		mg/kg dw	0.12	0.61	10/08/2004	kak	836	1907	SW 8082

MSO - MS and/or MSD recoveries are outside of control limits
 OOC - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Client Project ID: Chamberlain

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 826652	SAMPLE DESCRIPTION Sump-1B 6-11'					DATE-TIME TAKEN 09/24/2004 12:45				
PCB-1248	<0.61		mg/kg dw	0.046	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1254	<0.61		mg/kg dw	0.061	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1260	<0.61		mg/kg dw	0.34	0.61	10/08/2004	kak	836	1907	SW 8082
PCB-1268	<0.61		mg/kg dw	0.15	0.61	10/08/2004	kak	836	1907	SW 8082
Decachlorobiphenyl (Surr.)	42		%	1	1	10/08/2004	kak	836	1907	SW 8082
Tetrachlorometaxylene (Surr.)	39		%	1	1	10/08/2004	kak	836	1907	SW 8082

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ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1402	247.5	ug/L	263	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	259	105		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	262	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	261	106		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	129	104		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	128	103		10/04/2004
Cyanide, mdl		878	0.2475	mg/kg	0.245	99		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.243	98		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.247	100		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.121	98		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.120	97		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.119	96		10/08/2004
Dissolved ICP Metals		1702	1.0		1.0	100		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.10	102		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.09	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.10	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.00	100		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	1.01	101		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	0.9839	98		10/06/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0228	101		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00109	109		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00108	108		10/01/2004
Lead, Diss (GFAA) mdl		45	0.0375	mg/L	0.03669	98		09/29/2004
Mercury, diss mdl		800	1.00	ug/L	0.9804	98		10/06/2004
Selenium, Diss (GFAA) mdl		39	0.0375	mg/L	0.0403	108		09/28/2004
Arsenic, (GFAA) mdl		634	0.0375	mg/L	0.0370	99		10/01/2004
Mercury, mdl		2065	3.00	mg/L	3.19	106		09/29/2004
ICP Metals-Solid mdl								



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Barium, (ICP) mdl		2811	5.00	mg/L	5.20	104		10/04/2004
Barium, (ICP) mdl		2811	5.00	mg/L	5.40	108		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.92	98		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.99	100		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	4.85	97		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	5.08	102		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.96	99		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.98	100		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	4.95	99		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	5.05	101		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5771	50.0	ug/L	52.3	105		09/28/2004
Chlorobenzene		5771	50.0	ug/L	50.6	101		09/28/2004
1,1-Dichloroethene		5771	50.0	ug/L	54.4	109		09/28/2004
Ethylbenzene		5771	50.0	ug/L	49.8	100		09/28/2004
MTBE		5771	50.0	ug/L	42.3	85		09/28/2004
1,2,4-Trimethylbenzene		5771	50.0	ug/L	50.4	101		09/28/2004
Toluene		5771	50.0	ug/L	51.3	103		09/28/2004
1,3,5-Trimethylbenzene		5771	50.0	ug/L	51.6	103		09/28/2004
Trichloroethylene		5771	50.0	ug/L	51.2	102		09/28/2004
Xylenes, Total		5771	150.0	ug/L	156	104		09/28/2004
Dibromofluoromethane (surr)		5771	100	%	96	96		09/28/2004
Toluene-d8 (surr)		5771	100	%	98	98		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	105	105		09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5773	50.0	ug/L	53.4	107		09/29/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1056	50.0	ug/L	50.8	102		09/29/2004
Bromoform		1056	50.0	ug/L	54.0	108		09/29/2004
Chlorobenzene		1056	50.0	ug/L	53.8	108		09/29/2004
1,1-Dichloroethane		1056	50.0	ug/L	49.0	98		09/29/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
1,1-Dichloroethene		1056	50.0	ug/L	49.7	99		09/29/2004
Ethylbenzene		1056	50.0	ug/L	58.0	116		09/29/2004
MTBE		1056	50.0	ug/L	47.3	95		09/29/2004
1,1,2,2-Tetrachloroethane		1056	50.0	ug/L	48.1	96		09/29/2004
Toluene		1056	50.0	ug/L	51.1	102		09/29/2004
Trichloroethylene		1056	50.0	ug/L	55.9	112		09/29/2004
1,2,4-Trimethylbenzene		1056	50.0	ug/L	58.4	117		09/29/2004
1,3,5-Trimethylbenzene		1056	50.0	ug/L	59.7	119		09/29/2004
Vinyl Chloride		1056	50.0	ug/L	45.2	90		09/29/2004
Xylenes, Total		1056	150.0	ug/L	166	111		09/29/2004
4-Bromofluorobenzene (surr)		1056	100	%	104	104		09/29/2004
Dibromofluoromethane (surr)		1056	100	%	94	94		09/29/2004
Toluene-d8 (surr)		1056	100	%	95	95		09/29/2004
BNA Soil 8270 MDL								
Acenaphthene		183	60.00	ug/L	57.0	95		09/28/2004
Bis(2-ethylhexyl)phthalate		183	60.00	ug/L	57.0	95		09/28/2004
1,4-Dichlorobenzene		183	60.00	ug/L	56.9	95		09/28/2004
2,4-Dinitrotoluene		183	60.00	ug/L	60.8	101		09/28/2004
N-Nitrosodi-n-propylamine		183	60.00	ug/L	56.5	94		09/28/2004
Pyrene		183	60.00	ug/L	56.9	95		09/28/2004
1,2,4-Trichlorobenzene		183	60.00	ug/L	57.9	96		09/28/2004
Nitrobenzene-d5 (surr)		183	60.00	%	60.1	100		09/28/2004
2-Fluorobiphenyl (surr)		183	60.00	%	56.2	94		09/28/2004
Terphenyl-d14 (surr)		183	60.00	%	55.9	93		09/28/2004
4-Chloro-3-methylphenol		183	60.00	ug/L	58.2	97		09/28/2004
2-chlorophenol		183	60.00	ug/L	60.5	101		09/28/2004
4-Nitrophenol		183	60.00	ug/L	59.3	99		09/28/2004
Pentachlorophenol		183	60.00	ug/L	46.1	77		09/28/2004
Phenol		183	60.00	ug/L	60.9	102		09/28/2004
Phenol-d6 (surr)		183	120.00	%	60.9	51		09/28/2004
2-Fluorophenol (surr)		183	120.00	%	59.4	50		09/28/2004



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Tribromophenol (surr)		183	120.00	%	60.7	51		09/28/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		849	50.0	ug/L	49.3	99		10/01/2004
1,4-Dichlorobenzene		849	50.0	ug/L	49.6	99		10/01/2004
2,4-Dinitrotoluene		849	50.0	ug/L	54.2	108		10/01/2004
N-Nitrosodi-n-propylamine		849	50.0	ug/L	50.9	102		10/01/2004
Pyrene		849	50.0	ug/L	50.0	100		10/01/2004
1,2,4-Trichlorobenzene		849	50.0	ug/L	49.0	98		10/01/2004
Nitrobenzene-d5 (surr)		849	50.0	ug/L	51.6	103		10/01/2004
2-Fluorobiphenyl (surr)		849	50.0	ug/L	49.0	98		10/01/2004
Terphenyl-d14 (surr)		849	50.0	ug/L	49.3	99		10/01/2004
4-Chloro-3-methylphenol		849	50.0	ug/L	51.5	103		10/01/2004
2-chlorophenol		849	50.0	ug/L	50.4	101		10/01/2004
4-Nitrophenol		849	50.0	ug/L	53.6	107		10/01/2004
Pentachlorophenol		849	50.0	ug/L	50.7	101		10/01/2004
Phenol		849	50.0	ug/L	50.9	102		10/01/2004
Phenol-d6 (surr)		849	100.0	ug/L	101	101		10/01/2004
2-Fluorophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
Tribromophenol (surr)		849	100.0	ug/L	101	101		10/01/2004
PCB's Non-Aqueous								
PCB-1254		1907	0.64	ppm	0.65	102		10/08/2004
Decachlorobiphenyl (Surr.)		1907	100	%	100	100		10/08/2004
Tetrachlorometaxylene (Surr.)		1907	100	%	102	102		10/08/2004
PCB's Non-Aqueous								
PCB-1254		1907	0.64	ppm	0.71	111		10/08/2004
Decachlorobiphenyl (Surr.)		1907	100	%	111	111		10/08/2004
Tetrachlorometaxylene (Surr.)		1907	100	%	109	109		10/08/2004
PCBs Wisconsin Aqueous								
PCB-1254		654	0.96	ppm	1.10	115		10/11/2004
Decachlorobiphenyl (Surr.)		654	100	%	89	89		10/11/2004
Tetrachlorometaxylene (Surr.)		654	100	%	109	109		10/11/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
PCBs Wisconsin Aqueous								
PCB-1254		654	0.96	ppm	0.90	94		10/11/2004
Decachlorobiphenyl (Surr.)		654	100	%	91	91		10/11/2004
Tetrachlorometaxylene (Surr.)		654	100	%	88	88		10/11/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1402	<0.0022		mg/L	0.0022	0.0078	10/04/2004
Dissolved ICP Metals		1702	COMPLETE					10/06/2004
Barium, Diss (ICP) mdl		6426	<0.0013		mg/L	0.0013	0.0047	10/06/2004
Chromium, Diss (ICP) mdl		6442	<0.0026		mg/L	0.0026	0.0092	10/06/2004
Silver, Diss (ICP) mdl		6440	<0.0038		mg/L	0.0038	0.0136	10/06/2004
Arsenic, Diss (GFAA) mdl		52	<0.00036		mg/L	0.00036	0.0013	10/01/2004
Cadmium, Diss (GFAA) mdl		40	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Lead, Diss (GFAA) mdl		45	<0.00050		mg/L	0.00050	0.0018	09/29/2004
Mercury, diss mdl		800	0.037	B	ug/L	0.017	0.061	10/06/2004
Selenium, Diss (GFAA) mdl		39	<0.0015		mg/L	0.0015	0.0053	09/28/2004
Arsenic, (GFAA) mdl	914	634	<0.0021		mg/L	0.21	1.0	10/01/2004
Mercury, mdl		2065	<0.0012		mg/kg	0.0012	0.0043	09/29/2004
Barium, (ICP) mdl	1510	2811	<0.0039		mg/L	0.195	0.50	10/04/2004
Cadmium, (ICP) mdl	1510	2817	<0.0048		mg/L	0.24	0.84	10/04/2004
Chromium, (ICP) mdl	1510	2816	<0.0078		mg/L	0.39	1.0	10/04/2004
Lead, (ICP) mdl	1510	2833	<0.10		mg/L	5.0	5.0	10/04/2004
Selenium, (ICP) mdl	1510	2810	<0.15		mg/L	7.5	7.5	10/04/2004
Silver, (ICP) mdl	1510	645	<0.0114		mg/L	0.57	1.0	10/04/2004
VOLATILE COMPOUNDS								
Benzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromodichloromethane		5771	<0.46		ug/L	0.46	1.4	09/28/2004
Bromoform		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Bromomethane		5771	<0.62		ug/L	0.62	1.9	09/28/2004
Bromobenzene		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Carbon disulfide		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Bromo-chloromethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
Carbon tetrachloride		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dibromomethane		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Chlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
n-Butylbenzene		5771	0.13	B	ug/L	0.13	0.39	09/28/2004
sec-Butylbenzene		5771	<0.16		ug/L	0.16	0.48	09/28/2004
tert-Butylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloroethane		5771	<0.12		ug/L	0.12	0.36	09/28/2004

QUALITY CONTROL REPORT BLANKS

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10/12/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Chloroform		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chloromethane		5771	<0.24		ug/L	0.24	0.72	09/28/2004
2-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
4-Chlorotoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Chlorodibromomethane		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dibromo-3-chloropropane		5771	<0.30		ug/L	0.30	0.90	09/28/2004
1,2-Dibromoethane (EDB)		5771	<0.42		ug/L	0.42	1.3	09/28/2004
1,2-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,3-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,4-Dichlorobenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Dichlorodifluoromethane		5771	<0.40		ug/L	0.4	1.2	09/28/2004
1,1-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2-Dichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Di-Isopropylether		5771	<0.32		ug/L	0.32	0.96	09/28/2004
1,3-Dichloropropane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
2,2-Dichloropropane		5771	<0.73		ug/L	0.73	2.2	09/28/2004
1,1-Dichloropropene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
trans-1,2-Dichloroethene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
cis-1,2-Dichloroethene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
1,2-Dichloropropane		5771	<0.12		ug/L	0.12	0.36	09/28/2004
cis-1,3-Dichloropropene		5771	<0.43		ug/L	0.43	1.2	09/28/2004
trans-1,3-Dichloropropene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
Hexachlorobutadiene		5771	0.47	B	ug/L	0.22	0.66	09/28/2004
Ethylbenzene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Isopropylbenzene		5771	<0.44		ug/L	0.44	1.3	09/28/2004
p-Isopropyltoluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Hexane		5771	0.23	B	ug/L	0.18	0.54	09/28/2004
MTBE		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Methylene chloride		5771	<0.63		ug/L	0.63	1.9	09/28/2004
Napthalene		5771	<0.86		ug/L	0.86	2.6	09/28/2004
n-Propylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Styrene		5771	<0.41		ug/L	0.41	1.2	09/28/2004

QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
1,1,1,2-Tetrachloroethane		5771	<0.40		ug/L	0.40	1.2	09/28/2004
1,1,2,2-Tetrachloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,2,3-Trichlorobenzene		5771	1.34	B	ug/L	0.40	1.2	09/28/2004
1,2,4-Trichlorobenzene		5771	0.61	B	ug/L	0.25	0.75	09/28/2004
Tetrachloroethene		5771	<0.37		ug/L	0.37	1.1	09/28/2004
1,2,3-Trichloropropane		5771	<0.49		ug/L	0.49	1.5	09/28/2004
1,2,4-Trimethylbenzene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
Toluene		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,3,5-Trimethylbenzene		5771	<0.14		ug/L	0.14	0.42	09/28/2004
1,1,1-Trichloroethane		5771	<0.25		ug/L	0.25	0.75	09/28/2004
1,1,2-Trichloroethane		5771	<0.10		ug/L	0.10	0.3	09/28/2004
Trichloroethylene		5771	<0.43		ug/L	0.43	1.3	09/28/2004
Trichlorofluoromethane		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Vinyl chloride		5771	<0.47		ug/L	0.47	1.4	09/28/2004
Xylenes, Total		5771	<0.38		ug/L	0.38	1.1	09/28/2004
Dibromofluoromethane (surr)		5771	98.0	%				09/28/2004
Toluene-d8 (surr)		5771	93.0	%				09/28/2004
4-Bromofluorobenzene (surr)		5771	91.0	%				09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5773	<0.43		ug/L	0.43	1.3	09/29/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1056	<8.0		ug/kg	8.0	24	09/29/2004
Benzene		1056	<0.55		ug/kg	0.55	1.65	09/29/2004
Bromobenzene		1056	<0.70		ug/kg	0.70	2.10	09/29/2004
Bromochloromethane		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
Bromodichloromethane		1056	<2.25		ug/kg	2.25	6.75	09/29/2004
Bromoform		1056	<3.35		ug/kg	3.35	10.0	09/29/2004
Bromomethane		1056	<4.90		ug/kg	4.90	14.5	09/29/2004
Methyl ethyl ketone (MEK)		1056	<0.85		ug/kg	0.85	2.00	09/29/2004
n-Butylbenzene		1056	<5.0		ug/kg	0.47	5.0	09/29/2004
sec-Butylbenzene		1056	<5.0		ug/kg	1.45	5.0	09/29/2004
tert-Butylbenzene		1056	<5.0		ug/kg	0.5	5.0	09/29/2004
Carbon tetrachloride		1056	<6.0		ug/kg	6.0	18.0	09/29/2004

QUALITY CONTROL REPORT BLANKS

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Chlorobenzene		1056	<0.425		ug/kg	0.425	1.275	09/29/2004
Chlorodibromomethane		1056	<1.40		ug/kg	1.40	4.20	09/29/2004
Chloroethane		1056	<0.70		ug/kg	0.70	2.10	09/29/2004
Chloroform		1056	<0.85		ug/kg	0.85	2.55	09/29/2004
Chloromethane		1056	<0.5		ug/kg	0.5	1.5	09/29/2004
2-Chlorotoluene		1056	<0.65		ug/kg	0.65	1.95	09/29/2004
4-Chlorotoluene		1056	<0.55		ug/kg	0.55	1.65	09/29/2004
1,2-Dibromo-3-chloropropane		1056	<10		ug/kg	10	30	09/29/2004
1,2-Dibromoethane (EDB)		1056	<2.95		ug/kg	2.95	8.85	09/29/2004
Dibromomethane		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
1,2-Dichlorobenzene		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,3-Dichlorobenzene		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,4-Dichlorobenzene		1056	<0.65		ug/kg	0.65	1.95	09/29/2004
Dichlorodifluoromethane		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
1,1-Dichloroethane		1056	<0.80		ug/kg	0.80	2.4	09/29/2004
1,2-Dichloroethane		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
1,1-Dichloroethene		1056	<0.335		ug/kg	0.335	1.00	09/29/2004
cis-1,2-Dichloroethene		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
trans-1,2-Dichloroethene		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
1,2-Dichloropropane		1056	<0.43		ug/kg	0.43	1.29	09/29/2004
1,3-Dichloropropane		1056	<0.85		ug/kg	0.85	2.55	09/29/2004
2,2-Dichloropropane		1056	<0.36		ug/kg	0.36	1.08	09/29/2004
1,1-Dichloropropene		1056	<0.85		ug/kg	0.85	2.55	09/29/2004
cis-1,3-Dichloropropene		1056	<0.80		ug/kg	0.80	2.40	09/29/2004
trans-1,3-Dichloropropene		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
Ethylbenzene		1056	<0.55		ug/kg	0.55	1.65	09/29/2004
Hexachlorobutadiene		1056	<2.90		ug/kg	2.90	8.70	09/29/2004
2-Hexanone		1056	<0.55		ug/kg	0.55	2.00	09/29/2004
Isopropylbenzene		1056	<0.36		ug/kg	0.36	1.08	09/29/2004
p-Isopropyltoluene		1056	<0.5		ug/kg	0.5	1.5	09/29/2004
Methylene chloride		1056	<50		ug/kg	7.0	50	09/29/2004
Methyl isobutyl ketone		1056	<0.70		ug/kg	0.70	2.00	09/29/2004
MTBE		1056	<4.75		ug/kg	4.75	14.2	09/29/2004

QUALITY CONTROL REPORT BLANKS

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10/12/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Naphthalene		1056	<5.0		ug/kg	0.80	5.0	09/29/2004
n-Propylbenzene		1056	<5.0		ug/kg	0.55	5.0	09/29/2004
Styrene		1056	<0.38		ug/kg	0.38	1.14	09/29/2004
1,1,1,2-Tetrachloroethane		1056	<1.80		ug/kg	1.80	5.40	09/29/2004
1,1,2,2-Tetrachloroethane		1056	<1.1		ug/kg	1.1	3.3	09/29/2004
Tetrachloroethene		1056	<0.65		ug/kg	0.65	1.95	09/29/2004
Toluene		1056	<0.70		ug/kg	0.70	2.10	09/29/2004
1,2,3-Trichlorobenzene		1056	<5.0		ug/kg	1.6	5.0	09/29/2004
1,2,4-Trichlorobenzene		1056	<5.0		ug/kg	0.32	5.0	09/29/2004
1,1,1-Trichloroethane		1056	<1.05		ug/kg	1.05	3.15	09/29/2004
1,1,2-Trichloroethane		1056	<1.2		ug/kg	1.2	3.6	09/29/2004
Trichloroethylene		1056	<0.95		ug/kg	0.95	2.85	09/29/2004
Trichlorofluoromethane		1056	<0.44		ug/kg	0.44	1.34	09/29/2004
1,2,3-Trichloropropane		1056	<0.90		ug/kg	0.90	2.7	09/29/2004
1,2,4-Trimethylbenzene		1056	<5.0		ug/kg	1.4	5.0	09/29/2004
1,3,5-Trimethylbenzene		1056	<5.0		ug/kg	2.3	5.0	09/29/2004
Vinyl Chloride		1056	<0.75		ug/kg	0.75	2.25	09/29/2004
Xylenes, Total		1056	<5.0		ug/kg	1.6	5.0	09/29/2004
4-Bromofluorobenzene (surr)		1056	106		%			09/29/2004
Dibromofluoromethane (surr)		1056	95		%			09/29/2004
Toluene-d8 (surr)		1056	98		%			09/29/2004
BNA Soil 8270 MDL								
Acenaphthene	114	183	<0.063		mg/kg	0.063	0.189	09/28/2004
Acenaphthylene	114	183	<0.059		mg/kg	0.059	0.177	09/28/2004
Anthracene	114	183	<0.039		mg/kg	0.039	0.117	09/28/2004
Benzdine	114	183	<0.098		mg/kg	0.098	0.294	09/28/2004
Benzo(a)anthracene	114	183	<0.035		mg/kg	0.035	0.105	09/28/2004
Benzo(b)fluoranthene	114	183	<0.037		mg/kg	0.037	0.111	09/28/2004
Benzo(k)fluoranthene	114	183	<0.049		mg/kg	0.049	0.147	09/28/2004
Benzo(a)pyrene	114	183	<0.049		mg/kg	0.049	0.147	09/28/2004
Benzo(ghi)perylene	114	183	<0.039		mg/kg	0.039	0.117	09/28/2004
Benzyl alcohol	114	183	<0.081		mg/kg	0.081	0.243	09/28/2004
Benzyl butyl phthalate	114	183	<0.043		mg/kg	0.043	0.129	09/28/2004

QUALITY CONTROL REPORT BLANKS

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10/12/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bis(2-chloroethyl)ether	114	183	<0.078		mg/kg	0.078	0.234	09/28/2004
Bis(2-chloroethoxy)methane	114	183	<0.074		mg/kg	0.074	0.222	09/28/2004
Bis(2-ethylhexyl)phthalate	114	183	<0.032		mg/kg	0.032	0.096	09/28/2004
Bis(2chloroisopropyl)ether	114	183	<0.086		mg/kg	0.086	0.258	09/28/2004
4-Bromophenyl phenyl ether	114	183	<0.048		mg/kg	0.048	0.144	09/28/2004
Carbazole	114	183	<0.039		mg/kg	0.039	0.117	09/28/2004
4-Chloroaniline	114	183	<0.104		mg/kg	0.104	0.312	09/28/2004
2-Chloronaphthalene	114	183	<0.070		mg/kg	0.070	0.21	09/28/2004
4-Chlorophenylphenyl ether	114	183	<0.055		mg/kg	0.055	0.165	09/28/2004
Chrysene	114	183	<0.030		mg/kg	0.030	0.090	09/28/2004
Dibenzo(a,h)anthracene	114	183	<0.077		mg/kg	0.077	0.231	09/28/2004
Dibenzofuran	114	183	<0.047		mg/kg	0.047	0.141	09/28/2004
Di-n-butylphthalate	114	183	<0.043		mg/kg	0.043	0.129	09/28/2004
1,2-Dichlorobenzene	114	183	<0.103		mg/kg	0.103	0.309	09/28/2004
1,3-Dichlorobenzene	114	183	<0.092		mg/kg	0.092	0.276	09/28/2004
1,4-Dichlorobenzene	114	183	<0.085		mg/kg	0.085	0.255	09/28/2004
3,3-Dichlorobenzidine	114	183	<0.107		mg/kg	0.107	0.321	09/28/2004
Diethyl phthalate	114	183	<0.047		mg/kg	0.047	0.141	09/28/2004
2,4-Dinitrotoluene	114	183	<0.047		mg/kg	0.047	0.141	09/28/2004
2,6-Dinitrotoluene	114	183	<0.066		mg/kg	0.066	0.198	09/28/2004
Di-n-octylphthalate	114	183	<0.060		mg/kg	0.060	0.18	09/28/2004
Fluorene	114	183	<0.053		mg/kg	0.053	0.159	09/28/2004
Hexachlorobenzene	114	183	<0.029		mg/kg	0.029	0.087	09/28/2004
Hexachlorocyclopentadiene	114	183	<0.058		mg/kg	0.058	0.174	09/28/2004
Hexachloro-1,3-butadiene	114	183	<0.067		mg/kg	0.067	0.201	09/28/2004
Hexachloroethane	114	183	<0.082		mg/kg	0.082	0.246	09/28/2004
Indeno(1,2,3-cd)pyrene	114	183	<0.031		mg/kg	0.031	0.093	09/28/2004
Isophorone	114	183	<0.059		mg/kg	0.059	0.177	09/28/2004
2-Methylnaphthalene	114	183	<0.064		mg/kg	0.064	0.192	09/28/2004
Naphthalene	114	183	<0.073		mg/kg	0.073	0.219	09/28/2004
2-Nitroaniline	114	183	<0.070		mg/kg	0.070	0.21	09/28/2004
3-Nitroaniline	114	183	<0.059		mg/kg	0.059	0.177	09/28/2004
4-Nitroaniline	114	183	<0.069		mg/kg	0.069	0.207	09/28/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Nitrobenzene	114	183	<0.076		mg/kg	0.076	0.228	09/28/2004
N-Nitrosodimethylamine	114	183	<0.111		mg/kg	0.111	0.333	09/28/2004
N-Nitrosodiphenylamine	114	183	<0.034		mg/kg	0.034	0.102	09/28/2004
N-Nitrosodi-n-propylamine	114	183	<0.083		mg/kg	0.083	0.249	09/28/2004
Phenanthrene	114	183	<0.038		mg/kg	0.038	0.114	09/28/2004
Pyrene	114	183	<0.050		mg/kg	0.050	0.15	09/28/2004
Pyridine	114	183	<0.112		mg/kg	0.112	0.336	09/28/2004
1,2,4-Trichlorobenzene	114	183	<0.073		mg/kg	0.073	0.219	09/28/2004
Nitrobenzene-d5 (surr)	114	183	76.0		%			09/28/2004
2-Fluorobiphenyl (surr)	114	183	75.0		%			09/28/2004
Terphenyl-d14 (surr)	114	183	84.0		%			09/28/2004
Benzoic Acid	114	183	<0.33		mg/kg	0.33	0.99	09/28/2004
4-Chloro-3-methylphenol	114	183	<0.072		mg/kg	0.072	0.216	09/28/2004
2-chlorophenol	114	183	<0.086		mg/kg	0.086	0.258	09/28/2004
2-Methylphenol	114	183	<0.078		mg/kg	0.078	0.234	09/28/2004
4-Methylphenol	114	183	<0.080		mg/kg	0.080	0.24	09/28/2004
Cresols, Total	114	183	<0.158		mg/kg	0.158	0.474	09/28/2004
2,4-Dichlorophenol	114	183	<0.074		mg/kg	0.074	0.222	09/28/2004
2,4-Dimethylphenol	114	183	<0.063		mg/kg	0.063	0.189	09/28/2004
2,4-Dinitrophenol	114	183	<0.028		mg/kg	0.028	0.084	09/28/2004
2-Methyl-4,6-dinitrophenol	114	183	<0.105		mg/kg	0.105	0.315	09/28/2004
2-Nitrophenol	114	183	<0.112		mg/kg	0.112	0.336	09/28/2004
4-Nitrophenol	114	183	<0.066		mg/kg	0.066	0.198	09/28/2004
Pentachlorophenol	114	183	<0.077		mg/kg	0.077	0.231	09/28/2004
Phenol	114	183	<0.077		mg/kg	0.077	0.231	09/28/2004
2,4,5-Trichlorophenol	114	183	<0.069		mg/kg	0.069	0.207	09/28/2004
2,4,6-Trichlorophenol	114	183	<0.054		mg/kg	0.054	0.162	09/28/2004
Phenol-d6 (surr)	114	183	80.0		%			09/28/2004
2-Fluorophenol (surr)	114	183	78.0		%			09/28/2004
Tribromophenol (surr)	114	183	85.0		%			09/28/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	<2.9		ug/L	2.9	8.7	10/01/2004
Acenaphthylene	447	849	<2.52		ug/L	2.52	7.56	10/01/2004

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10/12/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Anthracene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
Benzidine	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Benzo (a) anthracene	447	849	<2.72		ug/L	2.72	8.16	10/01/2004
Benzo (b) fluoranthene	447	849	<2.57		ug/L	2.57	7.71	10/01/2004
Benzo (k) fluoranthene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Benzo (a) pyrene	447	849	<2.47		ug/L	2.47	7.41	10/01/2004
Benzo (ghi) perylene	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Benzyl Alcohol	447	849	<2.5		ug/L	2.5	7.5	10/01/2004
Benzyl butyl phthalate	447	849	<2.73		ug/L	2.73	8.19	10/01/2004
Bis (2-chloroethyl) ether	447	849	<2.17		ug/L	2.17	6.51	10/01/2004
Bis (2-chloroethoxy) methane	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Bis (2-ethylhexyl) phthalate	447	849	4.55	B	ug/L	3.05	9.15	10/01/2004
Bis (2chloroisopropyl) ether	447	849	<2.19		ug/L	2.19	6.57	10/01/2004
4-Bromophenyl phenyl ether	447	849	<3.27		ug/L	3.27	9.81	10/01/2004
4-Chloroaniline	447	849	<1.69		ug/L	1.69	5.07	10/01/2004
2-Chloronaphthalene	447	849	<2.32		ug/L	2.32	6.96	10/01/2004
4-Chlorophenylphenyl ether	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
Chrysene	447	849	<2.67		ug/L	2.67	8.01	10/01/2004
Dibenzo (a, h) anthracene	447	849	<2.73		ug/L	2.73	8.19	10/01/2004
Dibenzofuran	447	849	<1.97		ug/L	1.97	5.91	10/01/2004
Di-n-butylphthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,3-Dichlorobenzene	447	849	<2.09		ug/L	2.09	6.27	10/01/2004
1,4-Dichlorobenzene	447	849	<2.1		ug/L	2.1	6.3	10/01/2004
1,3-Dichlorobenzidine	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Diethyl phthalate	447	849	<2.49		ug/L	2.49	7.47	10/01/2004
1,2-Diphenylhydrazine	447	849	<2.36		ug/L	2.36	7.08	10/01/2004
Dimethyl phthalate	447	849	<2.58		ug/L	2.58	7.74	10/01/2004
2,4-Dinitrotoluene	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2,6-Dinitrotoluene	447	849	<1.55		ug/L	1.55	4.65	10/01/2004
Di-n-octylphthalate	447	849	<2.82		ug/L	2.82	8.46	10/01/2004
Fluoranthene	447	849	<2.08		ug/L	2.08	6.24	10/01/2004
Fluorene	447	849	<2.13		ug/L	2.13	6.39	10/01/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Hexachlorobenzene	447	849	<2.15		ug/L	2.15	6.45	10/01/2004
Hexachloro-1,3-butadiene	447	849	<2.41		ug/L	2.41	7.23	10/01/2004
Hexachlorocyclopentadiene	447	849	<1.78		ug/L	1.78	5.34	10/01/2004
Hexachloroethane	447	849	<1.94		ug/L	1.94	5.82	10/01/2004
Indeno(1,2,3-cd)pyrene	447	849	<2.6		ug/L	2.6	7.8	10/01/2004
Isophorone	447	849	<2.37		ug/L	2.37	7.11	10/01/2004
2-Methylnaphthalene	447	849	<2.23		ug/L	2.23	6.69	10/01/2004
Naphthalene	447	849	<2.68		ug/L	2.68	8.04	10/01/2004
2-Nitroaniline	447	849	<2.25		ug/L	2.25	6.75	10/01/2004
3-Nitroaniline	447	849	<1.84		ug/L	1.84	5.52	10/01/2004
4-Nitroaniline	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
Nitrobenzene	447	849	<2.04		ug/L	2.04	6.12	10/01/2004
N-Nitrosodimethylamine	447	849	<2.01		ug/L	2.01	6.03	10/01/2004
N-Nitrosodiphenylamine	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
N-Nitrosodi-n-propylamine	447	849	<2.44		ug/L	2.44	7.32	10/01/2004
N-Nitrosodi-n-butylamine	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
N-Nitrosodiethylamine	447	849	<1.71		ug/L	1.71	5.13	10/01/2004
Phenanthrene	447	849	<2.56		ug/L	2.56	7.68	10/01/2004
N-Nitrosopyrrolidine	447	849	<2.55		ug/L	2.55	7.65	10/01/2004
Pentachlorobenzene	447	849	<1.51		ug/L	1.51	4.53	10/01/2004
Pyrene	447	849	<2.8		ug/L	2.8	8.4	10/01/2004
Pyridine	447	849	<1.36		ug/L	1.36	4.08	10/01/2004
1,2,4,5-Tetrachlorobenzene	447	849	<2.46		ug/L	2.46	7.38	10/01/2004
1,2,4-Trichlorobenzene	447	849	<2.33		ug/L	2.33	6.99	10/01/2004
Nitrobenzene-d5 (surr)	447	849	66.0		%	100	100	10/01/2004
2-Fluorobiphenyl (surr)	447	849	59.0		%	100	100	10/01/2004
Terphenyl-d14 (surr)	447	849	97.0		%	100	100	10/01/2004
Benzoic Acid	447	849	<10.0		ug/L	10.0	30.0	10/01/2004
4-Chloro-3-methylphenol	447	849	<2.7		ug/L	2.7	8.1	10/01/2004
2-chlorophenol	447	849	<2.48		ug/L	2.48	7.44	10/01/2004
Cresols, Total	447	849	<4.42		ug/L	4.42	13.3	10/01/2004
2,4-Dichlorophenol	447	849	<2.66		ug/L	2.66	7.98	10/01/2004
2,4-Dimethylphenol	447	849	<1.49		ug/L	1.49	4.47	10/01/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
2,4-Dinitrophenol	447	849	<2.59		ug/L	2.59	7.77	10/01/2004
2-Methyl-4,6-dinitrophenol	447	849	<2.98		ug/L	2.98	8.94	10/01/2004
2-Nitrophenol	447	849	<2.76		ug/L	2.76	8.28	10/01/2004
4-Nitrophenol	447	849	<1.8		ug/L	1.8	5.4	10/01/2004
2,5-Dinitrophenol	447	849	<4.21		ug/L	4.21	12.6	10/01/2004
Pentachlorophenol	447	849	<2.78		ug/L	2.78	8.34	10/01/2004
Phenol	447	849	<1.72		ug/L	1.72	5.16	10/01/2004
2,4,5-Trichlorophenol	447	849	<3.22		ug/L	3.22	9.66	10/01/2004
2,4,6-Trichlorophenol	447	849	<3.66		ug/L	3.66	11.0	10/01/2004
Phenol-d6 (surr)	447	849	25.0	OOC, L	%	100	100	10/01/2004
2-Fluorophenol (surr)	447	849	42.0		%	100	100	10/01/2004
Tribromophenol (surr)	447	849	97.0		%	100	100	10/01/2004
PCB's Non-Aqueous								
PCB-1016	836	1906	<0.25		mg/kg	0.15	0.25	10/07/2004
PCB-1221	836	1906	<0.25		mg/kg	0.19	0.25	10/07/2004
PCB-1232	836	1906	<0.25		mg/kg	0.029	0.25	10/07/2004
PCB-1242	836	1906	<0.25		mg/kg	0.049	0.25	10/07/2004
PCB-1248	836	1906	<0.25		mg/kg	0.019	0.25	10/07/2004
PCB-1254	836	1906	<0.25		mg/kg	0.025	0.25	10/07/2004
PCB-1260	836	1906	<0.25		mg/kg	0.14	0.25	10/07/2004
PCB-1268	836	1906	<0.25		mg/kg	0.063	0.25	10/07/2004
Decachlorobiphenyl (Surr.)	836	1906	106		%	1	1	10/07/2004
Tetrachlorometaxylene (Surr.)	836	1906	74		%	1	1	10/07/2004
PCBs Wisconsin Aqueous								
PCB 1016	236	652	<0.10		ug/L	0.10	0.30	10/08/2004
PCB-1242	236	652	<0.085		ug/L	0.085	0.26	10/08/2004
PCB-1221	236	652	<0.49		ug/L	0.49	1.5	10/08/2004
PCB-1232	236	652	<0.027		ug/L	0.027	0.081	10/08/2004
PCB-1248	236	652	<0.065		ug/L	0.065	0.20	10/08/2004
PCB-1254	236	652	<0.098		ug/L	0.098	0.29	10/08/2004
PCB-1260	236	652	<0.091		ug/L	0.091	0.27	10/08/2004
PCB-1268	236	652	<1.0		ug/L	1.0	1.0	10/08/2004
Decachlorobiphenyl (Surr.)	236	652	27		%			10/08/2004



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

QUALITY CONTROL REPORT
BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

TestAmerica Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Tetrachlorometaxylene (Surr.)	236	652	59		%			10/08/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1402	0.198	mg/L	0.197	100		10/04/2004
Cyanide, mdl		878	0.1980	mg/kg	0.190	96		10/08/2004
Mercury, diss mdl		800	1.64	ug/L	1.64	100	B	10/06/2004
Arsenic, (GFAA) mdl	914	634	0.0400	mg/L	0.0382	96		10/01/2004
Mercury, mdl		2065	0.161	mg/kg	0.139	86		09/29/2004
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061	91		10/04/2004
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061	91		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149	92		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160	92		10/04/2004
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81	90		10/04/2004
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66	92		10/04/2004
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449	94		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5771	20.0	ug/L	22.0	110		09/28/2004
Chlorobenzene		5771	20.0	ug/L	21.4	107		09/28/2004
1,1-Dichloroethene		5771	20.0	ug/L	24.0	120		09/28/2004
Ethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
MTBE		5771	20.0	ug/L	20.0	100		09/28/2004
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8	104		09/28/2004
Toluene		5771	20.0	ug/L	21.4	107		09/28/2004
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6	108		09/28/2004
Trichloroethylene		5771	20.0	ug/L	21.4	107		09/28/2004
Xylenes, Total		5771	60.0	ug/L	63.5	106		09/28/2004
Dibromofluoromethane (surr)		5771	100	%	102.0	102		09/28/2004
Toluene-d8 (surr)		5771	100	%	99.0	99		09/28/2004
4-Bromofluorobenzene (surr)		5771	100	%	102.0	102		09/28/2004
VOLATILE COMPOUNDS								
Trichloroethylene		5773	20.0	ug/L	19.5	98		09/29/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1056	32.41	ug/kg	32.2	99		09/29/2004
Bromoform		1056	32.41	ug/kg	39.2	121		09/29/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Chlorobenzene		1056	32.41	ug/kg	35.4	109		09/29/2004
1,1-Dichloroethane		1056	32.41	ug/kg	32.3	100		09/29/2004
1,1-Dichloroethene		1056	32.41	ug/kg	27.9	86		09/29/2004
Ethylbenzene		1056	32.41	ug/kg	35.4	109		09/29/2004
MTBE		1056	32.41	ug/kg	36.2	112		09/29/2004
1,1,2,2-Tetrachloroethane		1056	32.41	ug/kg	33.7	104		09/29/2004
Toluene		1056	32.41	ug/kg	31.9	98		09/29/2004
Trichloroethylene		1056	32.41	ug/kg	32.6	101		09/29/2004
1,2,4-Trimethylbenzene		1056	32.41	ug/kg	37.1	114		09/29/2004
1,3,5-Trimethylbenzene		1056	32.41	ug/kg	37.8	117		09/29/2004
Vinyl Chloride		1056	32.41	ug/kg	25.1	77		09/29/2004
Xylenes, Total		1056	97.24	ug/kg	102	105		09/29/2004
4-Bromofluorobenzene (surr)		1056	100	%	109	109		09/29/2004
Dibromofluoromethane (surr)		1056	100	%	102	102		09/29/2004
Toluene-d8 (surr)		1056	100	%	96	96		09/29/2004
BNA Soil 8270 MDL								
Acenaphthene	114	183	3.33	mg/kg	2.82	85		09/28/2004
1,4-Dichlorobenzene	114	183	3.33	mg/kg	2.32	70		09/28/2004
2,4-Dinitrotoluene	114	183	3.33	mg/kg	3.54	106		09/28/2004
N-Nitrosodi-n-propylamine	114	183	3.33	mg/kg	2.69	81		09/28/2004
Pyrene	114	183	3.33	mg/kg	3.25	98		09/28/2004
1,2,4-Trichlorobenzene	114	183	3.33	mg/kg	2.41	72		09/28/2004
Nitrobenzene-d5 (surr)	114	183	100	%	73.0	73		09/28/2004
2-Fluorobiphenyl (surr)	114	183	100	%	80.0	80		09/28/2004
Terphenyl-d14 (surr)	114	183	100	%	97.0	97		09/28/2004
4-Chloro-3-methylphenol	114	183	3.33	mg/kg	2.75	83		09/28/2004
2-chlorophenol	114	183	3.33	mg/kg	2.24	67		09/28/2004
4-Nitrophenol	114	183	3.33	mg/kg	3.04	91		09/28/2004
Pentachlorophenol	114	183	3.33	mg/kg	2.43	73		09/28/2004
Phenol	114	183	3.33	mg/kg	2.29	69		09/28/2004
Phenol-d6 (surr)	114	183	100	%	73.0	73		09/28/2004
2-Fluorophenol (surr)	114	183	100	%	69.0	69		09/28/2004
Tribromophenol (surr)	114	183	100	%	97.0	97		09/28/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
BNA - 8270 AQUEOUS WI								
Acenaphthene	447	849	100.0	ug/L	75.7	76		10/01/2004
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9	45		10/01/2004
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8	99		10/01/2004
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9	65		10/01/2004
Pyrene	447	849	100.0	ug/L	86.5	86		10/01/2004
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7	47		10/01/2004
Nitrobenzene-d5 (surr)	447	849	100	%	58.0	58		10/01/2004
2-Fluorobiphenyl (surr)	447	849	100	%	70.0	70		10/01/2004
Terphenyl-d14 (surr)	447	849	100	%	94.0	94		10/01/2004
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6	80		10/01/2004
2-chlorophenol	447	849	100.0	ug/L	49.0	49		10/01/2004
4-Nitrophenol	447	849	100.0	ug/L	41.0	41		10/01/2004
Pentachlorophenol	447	849	100.0	ug/L	95.7	96		10/01/2004
Phenol	447	849	100.0	ug/L	23.4	23		10/01/2004
Phenol-d6 (surr)	447	849	100	%	23.0	23	L, OOC	10/01/2004
2-Fluorophenol (surr)	447	849	100	%	34.0	34	OOC	10/01/2004
Tribromophenol (surr)	447	849	100	%	98.0	98		10/01/2004
PCB's Non-Aqueous								
PCB-1248	836	1906	0.17	mg/kg	0.13	76		10/07/2004
Decachlorobiphenyl (Surr.)	836	1906	100	%	105	105		10/07/2004
Tetrachlorometaxylene (Surr.)	836	1906	100	%	82	82		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248	236	652	5.0	ug/L	3.0	60		10/08/2004
Decachlorobiphenyl (Surr.)	236	652	100	%	27	27		10/08/2004
Tetrachlorometaxylene (Surr.)	236	652	100	%	70	70		10/08/2004

L - LCS recovery is outside of control limits.

OOC - Surrogate recovery outside QC limits due to matrix interferences.

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1702	1.0		COMPLETE				10/06/2004
Barium, Diss (ICP) mdl	6426		0.9615	mg/L	0.024	0.9196	93		10/06/2004
Chromium, Diss (ICP) mdl	6442		0.9615	mg/L	<0.0080	0.9438	98	IE	10/06/2004
Silver, Diss (ICP) mdl	6440		0.9804	mg/L	<0.0038	0.7359	75		10/06/2004
Arsenic, Diss (GFAA) mdl	52		0.0227	mg/L	<0.00036	0.0251	111		10/01/2004
Cadmium, Diss (GFAA) mdl	40		0.00119	mg/L	<0.00014	0.00123	103		10/01/2004
Lead, Diss (GFAA) mdl	45		0.0227	mg/L	<0.00050	0.01958	86		09/29/2004
Selenium, Diss (GFAA) mdl	39		0.0238	mg/L	<0.0015	0.0208	87		09/28/2004

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job Number: 04.13407

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD
									Max. Limit
Solids, Total		2770	97.62	98.00	%	0.4		09/28/2004	20
Solids, Total		2770	19.77	20.39	%	3.1		09/28/2004	20
Dissolved ICP Metals		1702	COMPLETE	COMPLETE				10/06/2004	20
Barium, Diss (ICP) mdl		6426	0.062	0.063	mg/L	1.6		10/06/2004	20
Chromium, Diss (ICP) mdl		6442	<0.010	<0.010	mg/L		IE	10/06/2004	20
Silver, Diss (ICP) mdl		6440	<0.0038	<0.0038	mg/L			10/06/2004	20
Arsenic, Diss (GFAA) mdl		52	0.00750	0.00804	mg/L	6.9		10/01/2004	20
Cadmium, Diss (GFAA) mdl		40	<0.00014	<0.00014	mg/L			10/01/2004	20
Lead, Diss (GFAA) mdl		45	<0.00050	<0.00050	mg/L			09/29/2004	20
Selenium, Diss (GFAA) mdl		39	<0.0015	<0.0015	mg/L			09/28/2004	20

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13407

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD		Percent	MS/MSD	
	Batch	Batch	Spike					Result	Spike			Units
Cyanide, Total mdl		1402	0.205	<0.0022	0.198	mg/L	103.5	0.211	0.198	mg/L	106.6	2.9
Cyanide, mdl		878	21.53	1.66	23.09	mg/kg dw	86.0	22.12	23.31	mg/kg dw	87.7	2.7
Mercury, diss mdl		800	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
Arsenic, (GFAA) mdl	914	634	26.3	17.2	9.15	mg/kg dw	99.7	22.7	9.20	mg/kg dw	60.1	14.7
Mercury, mdl		2065	0.937	<0.16	1.31	mg/kg dw	71.7	0.904	1.28	mg/kg dw	70.5	3.6
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.3
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.3
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Silver, (ICP) mdl	1510	645	324	<4.1	350	mg/kg dw	92.4			mg/kg dw		
VOLATILE COMPOUNDS												
Benzene		5771	24	<0.25	20	ug/L	120.0	22.3	20.0	ug/L	111.5	7.3
Chlorobenzene		5771	22	<0.25	20	ug/L	110.0	22.2	20.0	ug/L	111.0	0.9
1,1-Dichloroethene		5771	24	<0.25	20	ug/L	120.0	24.4	20.0	ug/L	122.0	1.7
Ethylbenzene		5771	20.1	<0.43	20.0	ug/L	100.5	20.6	20.0	ug/L	103.0	2.5
1,2,4-Trimethylbenzene		5771	13.0	<0.25	20.0	ug/L	65.0	16.2	20.0	ug/L	81.0	21.9
Toluene		5771	22	<0.25	20	ug/L	110.0	21.5	20.0	ug/L	107.5	2.3
1,3,5-Trimethylbenzene		5771	14.1	<0.14	20.0	ug/L	70.5	17.4	20.0	ug/L	87.0	21.0
VOA 8260 NON-AQUEOUS LRL												
Benzene		1056	76.3	<0.71	84.32	ug/kg dw	90.5	87.3	93.93	ug/kg dw	92.9	13.4

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13407

Analyte	Prep	Run	Matrix	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD		Percent Recovery	MS/MSD RPD
	Batch Number	Batch Number	Spike Result						Spike Amount	Units		
Bromoform		1056	91.5	<4.30	84.32	ug/kg dw	108.5	110	93.93	ug/kg dw	116.8	18.1
Chlorobenzene		1056	80.7	<0.546	84.32	ug/kg dw	95.7	90.1	93.93	ug/kg dw	95.9	11.0
1,1-Dichloroethane		1056	77.4	<1.0	84.32	ug/kg dw	91.7	90.3	93.93	ug/kg dw	96.2	15.5
1,1-Dichloroethene		1056	75.3	<0.430	84.32	ug/kg dw	89.3	84.8	93.93	ug/kg dw	90.3	11.9
Ethylbenzene		1056	81.9	<0.71	84.32	ug/kg dw	97.1	93.8	93.93	ug/kg dw	99.9	13.6
MTBE		1056	86.1	<6.10	84.32	ug/kg dw	102.1	103	93.93	ug/kg dw	109.7	17.9
1,1,2,2-Tetrachloroethane		1056	80.6	<1.4	84.32	ug/kg dw	95.6	91.1	93.93	ug/kg dw	97.0	12.3
Toluene		1056	77.6	<0.90	84.32	ug/kg dw	92.0	86.1	93.93	ug/kg dw	91.7	10.4
Trichloroethylene		1056	81.9	<1.2	84.32	ug/kg dw	97.1	92.3	93.93	ug/kg dw	98.2	12.0
1,2,4-Trimethylbenzene		1056	82.5	<6.4	84.32	ug/kg dw	97.8	93.2	93.93	ug/kg dw	99.2	12.1
1,3,5-Trimethylbenzene		1056	81.5	<6.4	84.32	ug/kg dw	96.6	96.8	93.93	ug/kg dw	103.0	17.2
Vinyl Chloride		1056	69.4	<0.96	84.32	ug/kg dw	82.3	77.7	93.93	ug/kg dw	82.8	11.4
Xylenes, Total		1056	239	<6.4	253	ug/kg dw	94.4	266	281	ug/kg dw	94.5	10.7
BNA Soil 8270 MDL												
Acenaphthene	114	183	4.96	<1.6	78.8	mg/kg dw	6.3	4.48	80.8	mg/kg dw	5.5	10
1,4-Dichlorobenzene	114	183	4.89	<2.0	78.8	mg/kg dw	6.2	3.9	80.8	mg/kg dw	4.8	22
2,4-Dinitrotoluene	114	183	4.36	<1.2	78.8	mg/kg dw	5.5	3.9	80.8	mg/kg dw	4.8	11.2
N-Nitrosodi-n-propylamine	114	183	5.79	<2.0	78.8	mg/kg dw	7.3	5.8	80.8	mg/kg dw	7.2	0.8
Pyrene	114	183	5.13	<1.2	78.8	mg/kg dw	6.5	4.4	80.8	mg/kg dw	5.4	15.9
1,2,4-Trichlorobenzene	114	183	5.11	<1.8	78.8	mg/kg dw	6.5	4.4	80.8	mg/kg dw	5.4	15.4
4-Chloro-3-methylphenol	114	183	4.74	<1.8	78.8	mg/kg dw	6.0	5.4	80.8	mg/kg dw	6.6	12.0
2-chlorophenol	114	183	5.26	<2.1	78.8	mg/kg dw	6.7	5.8	80.8	mg/kg dw	7.2	10.5
4-Nitrophenol	114	183	4.55	<1.6	78.8	mg/kg dw	5.8	3.9	80.8	mg/kg dw	4.8	15.6
Pentachlorophenol	114	183	<1.8	<1.8	78.8	mg/kg dw	0	<1.8	80.8	mg/kg dw	0	
Phenol	114	183	5.168	<1.8	78.8	mg/kg dw	6.6	5.4	80.8	mg/kg dw	6.6	3.5
BNA - 8270 AQUEOUS WI												
Acenaphthene	447	849	158	<6.3	217.4	ug/L	72.7	170	217.4	ug/L	78.2	7.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Cindy Quast

Job Number: 04.13407

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD		Percent	MS/MSD	
	Batch	Batch	Spike					Result	Spike			Recovery
	Number	Number	Result	Result	Amount	Units		Amount	Units			
1,4-Dichlorobenzene	447	849	125	<4.6	217.4	ug/L	57.5	124	217.4	ug/L	57.0	0.8
2,4-Dinitrotoluene	447	849	198	82.4	217.4	ug/L	53.2	210	217.4	ug/L	58.7	5.9
N-Nitrosodi-n-propylamine	447	849	154	<5.29	217.4	ug/L	70.8	160	217.4	ug/L	73.6	3.8
Pyrene	447	849	177	<6.1	217.4	ug/L	81.4	183	217.4	ug/L	84.2	3.3
1,2,4-Trichlorobenzene	447	849	129	<5.06	217.4	ug/L	59.3	132	217.4	ug/L	60.7	2.3
4-Chloro-3-methylphenol	447	849	173	<5.9	217.4	ug/L	79.6	183	217.4	ug/L	84.2	5.6
2-chlorophenol	447	849	130	<5.38	217.4	ug/L	59.8	136	217.4	ug/L	62.6	4.5
4-Nitrophenol	447	849	89.3	<3.9	217.4	ug/L	41.1	103	217.4	ug/L	47.4	14.2
Pentachlorophenol	447	849	215	<6.03	217.4	ug/L	98.9	226	217.4	ug/L	104.0	5.0
Phenol	447	849	72.6	17.6	217.4	ug/L	25.3	79.2	217.4	ug/L	28.3	8.7
PCB's Non-Aqueous												
PCB-1016	836	1906	<0.15	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0
PCB-1221	836	1906	<0.19	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0
PCB-1232	836	1906	<0.029	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0
CB-1242	836	1906	<0.049	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0
PCB-1248	836	1906	0.1	<0.32	0.21	mg/kg dw	56.3	0.1	0.21	mg/kg dw	56.3	0.0
PCB-1254	836	1906	<0.025	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0
PCB-1260	836	1906	<0.14	<0.32	0	mg/kg dw	0	1.3	1.3	mg/kg dw	100.0	200.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/12/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.13407

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
Cyanide, Total mdl		1402	0.198	mg/L	0.197		99.5		90 - 110		20
Cyanide, mdl		878	0.1980	mg/kg	0.190		96.0		90 - 110		20
Mercury, diss mdl		800	1.64	ug/L	1.64		100.0		80 - 125		20
Arsenic, (GFAA) mdl	914	634	0.0400	mg/L	0.0382		95.5		80 - 120		20
Mercury, mdl		2065	0.161	mg/kg	0.139		86.3		80 - 115		20
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061		90.6		90 - 110		20
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061		90.6		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149		91.5		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149		91.5		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160		91.6		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160		91.6		90 - 110		20
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81		90.5		85 - 110		20
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66		91.5		90 - 110		20
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449		94.5		80 - 120		20
VOLATILE COMPOUNDS											
Benzene		5771	20.0	ug/L	22.0		110.0		81 - 124		27
Chlorobenzene		5771	20.0	ug/L	21.4		107.0		77 - 125		28
1,1-Dichloroethene		5771	20.0	ug/L	24.0		120.0		53 - 143		28
Ethylbenzene		5771	20.0	ug/L	20.8		104.0		65 - 140		24
MTBE		5771	20.0	ug/L	20.0		100.0		70 - 133		26
1,2,4-Trimethylbenzene		5771	20.0	ug/L	20.8		104.0		59 - 145		23
Toluene		5771	20.0	ug/L	21.4		107.0		73 - 127		21
1,3,5-Trimethylbenzene		5771	20.0	ug/L	21.6		108.0		63 - 141		24
Trichloroethylene		5771	20.0	ug/L	21.4		107.0		81 - 121		16
Xylenes, Total		5771	60.0	ug/L	63.5		105.8		75 - 130		20
Dibromofluoromethane (surr)		5771	100	%	102.0		102.0		85 - 118		50
Toluene-d8 (surr)		5771	100	%	99.0		99.0		76 - 120		50
4-Bromofluorobenzene (surr)		5771	100	%	102.0		102.0		76 - 116		50
VOLATILE COMPOUNDS											
Trichloroethylene		5773	20.0	ug/L	19.5		97.5		81 - 121		16
VOA 8260 NON-AQUEOUS LRL											
Benzene		1056	32.41	ug/kg	32.2		99.4		68 - 158		20

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/12/2004

Job No: 04.13407

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
Bromoform		1056	32.41	ug/kg	39.2		121.0		61 - 151		20
Chlorobenzene		1056	32.41	ug/kg	35.4		109.2		65 - 155		20
1,1-Dichloroethane		1056	32.41	ug/kg	32.3		99.7		64 - 154		20
1,1-Dichloroethene		1056	32.41	ug/kg	27.9		86.1		55 - 148		20
Ethylbenzene		1056	32.41	ug/kg	35.4		109.2		69 - 159		20
MTBE		1056	32.41	ug/kg	36.2		111.7		71 - 161		20
1,1,2,2-Tetrachloroethane		1056	32.41	ug/kg	33.7		104.0		63 - 153		20
Toluene		1056	32.41	ug/kg	31.9		98.4		68 - 158		20
Trichloroethylene		1056	32.41	ug/kg	32.6		100.6		61 - 151		20
1,2,4-Trimethylbenzene		1056	32.41	ug/kg	37.1		114.5		68 - 158		20
1,3,5-Trimethylbenzene		1056	32.41	ug/kg	37.8		116.6		66 - 156		20
Vinyl Chloride		1056	32.41	ug/kg	25.1		77.4		47 - 137		20
Xylenes, Total		1056	97.24	ug/kg	102		104.9		69 - 159		20
4-Bromofluorobenzene (surr)		1056	100	%	109		109.0		75 - 119		20
Dibromofluoromethane (surr)		1056	100	%	102		102.0		56 - 146		
ene-d8 (surr)		1056	100	%	96		96.0		52 - 142		
Soil 8270 MDL											
Acenaphthene	114	183	3.33	mg/kg	2.82		84.7		69 - 108		35
1,4-Dichlorobenzene	114	183	3.33	mg/kg	2.32		69.7		49 - 96		35
2,4-Dinitrotoluene	114	183	3.33	mg/kg	3.54		106.3		68 - 129		35
N-Nitrosodi-n-propylamine	114	183	3.33	mg/kg	2.69		80.8		53 - 105		35
Pyrene	114	183	3.33	mg/kg	3.25		97.6		68 - 117		35
1,2,4-Trichlorobenzene	114	183	3.33	mg/kg	2.41		72.4		51 - 98		35
Nitrobenzene-d5 (surr)	114	183	100	%	73.0		73.0		56 - 113		
2-Fluorobiphenyl (surr)	114	183	100	%	80.0		80.0		67 - 107		
Terphenyl-d14 (surr)	114	183	100	%	97.0		97.0		66 - 115		
4-Chloro-3-methylphenol	114	183	3.33	mg/kg	2.75		82.6		67 - 115		35
2-chlorophenol	114	183	3.33	mg/kg	2.24		67.3		51 - 94		35
4-Nitrophenol	114	183	3.33	mg/kg	3.04		91.3		63 - 140		35
Pentachlorophenol	114	183	3.33	mg/kg	2.43		73.0		49 - 139		35
Phenol	114	183	3.33	mg/kg	2.29		68.8		50 - 98		35
Phenol-d6 (surr)	114	183	100	%	73.0		73.0		55 - 106		

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/12/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.13407

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
2-Fluorophenol (surr)	114	183	100	%	69.0		69.0		52 - 96		
Tribromophenol (surr)	114	183	100	%	97.0		97.0		66 - 149		
BNA - 8270 AQUEOUS WI											
Acenaphthene	447	849	100.0	ug/L	75.7		75.7		42 - 127		20
1,4-Dichlorobenzene	447	849	100.0	ug/L	44.9		44.9		30 - 101		20
2,4-Dinitrotoluene	447	849	100.0	ug/L	98.8		98.8		51 - 141		20
N-Nitrosodi-n-propylamine	447	849	100.0	ug/L	64.9		64.9		39 - 119		20
Pyrene	447	849	100.0	ug/L	86.5		86.5		44 - 130		20
1,2,4-Trichlorobenzene	447	849	100.0	ug/L	46.7		46.7		35 - 105		20
Nitrobenzene-d5 (surr)	447	849	100	%	58.0		58.0		37 - 127		20
2-Fluorobiphenyl (surr)	447	849	100	%	70.0		70.0		40 - 114		20
Terphenyl-d14 (surr)	447	849	100	%	94.0		94.0		38 - 116		20
4-Chloro-3-methylphenol	447	849	100.0	ug/L	79.6		79.6		41 - 127		20
2-chlorophenol	447	849	100.0	ug/L	49.0		49.0		35 - 107		20
4-Nitrophenol	447	849	100.0	ug/L	41.0		41.0		15 - 66		20
Pentachlorophenol	447	849	100.0	ug/L	95.7		95.7		19 - 109		20
Phenol	447	849	100.0	ug/L	23.4		23.4		D - 90		20
Phenol-d6 (surr)	447	849	100	%	23.0		23.0		28 - 109		20
2-Fluorophenol (surr)	447	849	100	%	34.0		34.0		30 - 140		20
Tribromophenol (surr)	447	849	100	%	98.0		98.0		44 - 134		20
PCB's Non-Aqueous											
PCB-1248	836	1906	0.17	mg/kg	0.13		76.5		40 - 122		20
Decachlorobiphenyl (Surr.)	836	1906	100	%	105		105.0		63 - 131		35
Tetrachlorometaxylene (Sur	836	1906	100	%	82		82.0		35 - 125		
PCBs Wisconsin Aqueous											
PCB-1248	236	652	5.0	ug/L	3.0	3.0	60.0	60.0	34 - 111	0.0	20
Decachlorobiphenyl (Surr.)	236	652	100	%	27	23	27.0	23.0	37 - 134	16.0	
Tetrachlorometaxylene (Sur	236	652	100	%	70	69	70.0	69.0	37 - 115	1.4	

TestAmerica Job Number: 04.13407

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.



TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613 • 800-750-2401 • 319-277-2425 FAX

ANALYTICAL TESTING CORPORATION

Sample Receipt and Temperature Log Form

Client: Howard Green Project: _____

City: Cedar Rapids

Date: 9-24-04 Receiver's Initials AM/EM Time (Delivered): 10:45

Temperature Record

Cooler ID# (If Applicable)

6 °C / On Ice

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
 Samples(s) received same day of sampling.
 Temperature not taken:

Log-In by:

JP MR EM

OT _____

ANALYTICAL AND QUALITY CONTROL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job: 04.13543

Project Number: 722930-J23
Project: Chamberlain - Waterloo, IA

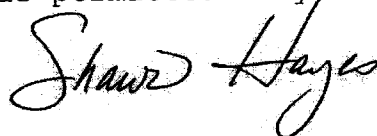
Enclosed is the analytical report for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
827074	TB-16	09/27/2004	09/29/2004
827075	FB-1W	09/27/2004	09/29/2004
827076	OF-2	09/27/2004	09/29/2004
827077	Sump-2	09/27/2004	09/29/2004
827078	MW-8B	09/27/2004	09/29/2004
827079	OF-2	09/27/2004	09/29/2004
827080	Sump-2	09/27/2004	09/29/2004
827081	GW-1	09/27/2004	09/29/2004
827082	FD-3	09/28/2004	09/29/2004

All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.



Shawn Hayes
Project Manager

CASE NARRATIVE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Sample receipt information is provided on the sample receipt log attached at the end of this report. Any deviations from normal protocols are noted by data qualifier flags or listed below.

Results present at a level between the method detection limit (MDL) and the limit of quantitation (LOQ) are less certain than results at or above the LOQ.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827074	TB-16	09/27/2004 08:00

VOLATILE COMPOUNDS

Benzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/05/2004	dmd		5796	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	10/05/2004	dmd		5796	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloroethane	<0.40		ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/05/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/05/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	10/05/2004	dmd		5796	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chloromethane	<0.24		ug/L	0.24	0.72	10/05/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/05/2004	dmd		5796	SW 8260B
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/05/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827074	SAMPLE DESCRIPTION TB-16					DATE-TIME TAKEN 09/27/2004 08:00				
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/05/2004	dmd		5796	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
2,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/05/2004	dmd		5796	SW 8260B
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	10/05/2004	dmd		5796	SW 8260B
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/05/2004	dmd		5796	SW 8260B
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/05/2004	dmd		5796	SW 8260B
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/05/2004	dmd		5796	SW 8260B
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/05/2004	dmd		5796	SW 8260B
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Hexane	<0.18		ug/L	0.18	0.54	10/05/2004	dmd		5796	SW 8260B
MTBE	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Methylene chloride	<0.63		ug/L	0.63	1.9	10/05/2004	dmd		5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/05/2004	dmd		5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/05/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/05/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827074	SAMPLE DESCRIPTION TB-16					DATE-TIME TAKEN 09/27/2004 08:00				
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/05/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/05/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
Toluene	0.28		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B	ug/L	0.14	0.42	10/05/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/05/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/05/2004	dmd		5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/05/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/05/2004	dmd		5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/05/2004	dmd		5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/05/2004	dmd		5796	SW 8260B
Bromofluoromethane (surr)	108		%			10/05/2004	dmd		5796	SW 8260B
luene-d8 (surr)	90		%			10/05/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	85		%			10/05/2004	dmd		5796	SW 8260B
VOA Preservation pH	<2		units	NA		10/04/2004	mmk		1062	SW 9041A

SAMPLE NO. 827075	SAMPLE DESCRIPTION FB-1W					DATE-TIME TAKEN 09/27/2004 09:00				
Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
Dissolved ICP Metals	COMPLETE					10/06/2004	llw		1702	
Barium, Diss (ICP) mdl	0.0014		mg/L	0.0013	0.0047	10/06/2004	llw		6426	SW 6010B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method	
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN					
827075	FB-1W					09/27/2004 09:00					
Chromium, Diss (ICP) mdl	<0.0080	IE	mg/L	0.0026	0.0092	10/06/2004	llw		6442	SW 6010B	
Silver, Diss (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/06/2004	llw		6440	SW 6010B	
Arsenic, Diss (GFAA) mdl	<0.00036		mg/L	0.00036	0.0013	10/01/2004	mrm		52	SW 7060A	
Cadmium, Diss (GFAA) mdl	<0.00014		mg/L	0.00014	0.00050	10/01/2004	mrm		40	SW 7131A	
Lead, Diss (GFAA) mdl	<0.00050		mg/L	0.00050	0.0018	10/04/2004	mrm		46	SW 7421	
Mercury, diss mdl	0.051	B	ug/L	0.017	0.061	10/06/2004	heh		800	EPA 245.2	
Selenium, Diss (GFAA) mdl	<0.0015		mg/L	0.0015	0.0053	10/04/2004	heh		40	SW 7740	
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510	
VOLATILE COMPOUNDS											
Benzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/02/2004	dmd		5796	SW 8260B	
Bromoform	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B	
Bromomethane	<0.62		ug/L	0.62	1.9	10/02/2004	dmd		5796	SW 8260B	
Bromobenzene	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B	
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
Bromochloromethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B	
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
Dibromomethane	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B	
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/02/2004	dmd		5796	SW 8260B	
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/02/2004	dmd		5796	SW 8260B	
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
Chloroethane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B	
Chloroform	0.49		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	
Chloromethane	0.82		ug/L	0.24	0.72	10/02/2004	dmd		5796	SW 8260B	
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B	

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827075	FB-1W								09/27/2004 09:00	
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloropropane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd	5796	SW 8260B	
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/02/2004	dmd	5796	SW 8260B	
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/02/2004	dmd	5796	SW 8260B	
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd	5796	SW 8260B	
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Hexane	0.18		ug/L	0.18	0.54	10/02/2004	dmd	5796	SW 8260B	
MTBE	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Methylene chloride	<0.63		ug/L	0.63	1.9	10/02/2004	dmd	5796	5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/02/2004	dmd	5796	5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/02/2004	dmd	5796	5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd	5796	5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/02/2004	dmd	5796	5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/02/2004	dmd	5796	5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/02/2004	dmd	5796	5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
Toluene	0.29		ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B	ug/L	0.14	0.42	10/02/2004	dmd	5796	5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/02/2004	dmd	5796	5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd	5796	5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/02/2004	dmd	5796	5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/02/2004	dmd	5796	5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/02/2004	dmd	5796	5796	SW 8260B
Dibromofluoromethane (surr)	126		%			10/02/2004	dmd	5796	5796	SW 8260B
Toluene-d8 (surr)	88		%			10/02/2004	dmd	5796	5796	SW 8260B
4-Bromofluorobenzene (surr)	88		%			10/02/2004	dmd	5796	5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<2.9		ug/L	2.9	8.7	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<2.52		ug/L	2.52	7.56	10/07/2004	ake	448	851	SW 8270C
Anthracene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Benzidine	<2.15		ug/L	2.15	6.45	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<2.72		ug/L	2.72	8.16	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<2.57		ug/L	2.57	7.71	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<2.6		ug/L	2.6	7.8	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<2.47		ug/L	2.47	7.41	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<2.78		ug/L	2.78	8.34	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<2.5		ug/L	2.5	7.5	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<2.73		ug/L	2.73	8.19	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<2.17		ug/L	2.17	6.51	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<2.33		ug/L	2.33	6.99	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<3.05		ug/L	3.05	9.15	10/07/2004	ake	448	851	SW 8270C
Bis(2chloroisopropyl)ether	<2.19		ug/L	2.19	6.57	10/07/2004	ake	448	851	SW 8270C
Bromophenyl phenyl ether	<3.27		ug/L	3.27	9.81	10/07/2004	ake	448	851	SW 8270C
4-Chloroaniline	<1.69		ug/L	1.69	5.07	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<2.32		ug/L	2.32	6.96	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<2.58		ug/L	2.58	7.74	10/07/2004	ake	448	851	SW 8270C
Chrysene	<2.67		ug/L	2.67	8.01	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<2.73		ug/L	2.73	8.19	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<1.97		ug/L	1.97	5.91	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<2.49		ug/L	2.49	7.47	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<2.09		ug/L	2.09	6.27	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<2.1		ug/L	2.1	6.3	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<1.55		ug/L	1.55	4.65	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<2.49		ug/L	2.49	7.47	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<2.36		ug/L	2.36	7.08	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Dimethyl phthalate	<2.58		ug/L	2.58	7.74	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<1.55		ug/L	1.55	4.65	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<2.82		ug/L	2.82	8.46	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<2.08		ug/L	2.08	6.24	10/07/2004	ake	448	851	SW 8270C
Fluorene	<2.13		ug/L	2.13	6.39	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<2.15		ug/L	2.15	6.45	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<2.41		ug/L	2.41	7.23	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<1.78		ug/L	1.78	5.34	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<1.94		ug/L	1.94	5.82	10/07/2004	ake	448	851	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.6		ug/L	2.6	7.8	10/07/2004	ake	448	851	SW 8270C
Isophorone	<2.37		ug/L	2.37	7.11	10/07/2004	ake	448	851	SW 8270C
2-Methylnapthalene	<2.23		ug/L	2.23	6.69	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<2.68		ug/L	2.68	8.04	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<2.25		ug/L	2.25	6.75	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<1.84		ug/L	1.84	5.52	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<1.36		ug/L	1.36	4.08	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<2.04		ug/L	2.04	6.12	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	11.6		ug/L	2.01	6.03	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<2.44		ug/L	2.44	7.32	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<2.76		ug/L	2.76	8.28	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<1.71		ug/L	1.71	5.13	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<2.56		ug/L	2.56	7.68	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<2.55		ug/L	2.55	7.65	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<1.51		ug/L	1.51	4.53	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827075	FB-1W					09/27/2004 09:00				
Pyrene	<2.8		ug/L	2.8	8.4	10/07/2004	ake	448	851	SW 8270C
Pyridine	<1.36		ug/L	1.36	4.08	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<2.46		ug/L	2.46	7.38	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<2.33		ug/L	2.33	6.99	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	66		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	66		%	100	100	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	100		%	100	100	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<10.0		ug/L	10.0	30.0	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<2.7		ug/L	2.7	8.1	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<2.48		ug/L	2.48	7.44	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<4.42		ug/L	4.42	13.3	10/07/2004	ake	448	851	SW 8270C
4-Dichlorophenol	<2.66		ug/L	2.66	7.98	10/07/2004	ake	448	851	SW 8270C
4-Dimethylphenol	<1.49		ug/L	1.49	4.47	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrophenol	<2.59		ug/L	2.59	7.77	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.98		ug/L	2.98	8.94	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<2.1		ug/L	2.1	6.3	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<2.76		ug/L	2.76	8.28	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<1.8		ug/L	1.8	5.4	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<4.21		ug/L	4.21	12.6	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<2.78		ug/L	2.78	8.34	10/07/2004	ake	448	851	SW 8270C
Phenol	<1.72		ug/L	1.72	5.16	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<3.22		ug/L	3.22	9.66	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<3.66		ug/L	3.66	11.0	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	28	OOO	%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	43		%	100	100	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	96		%	100	100	10/07/2004	ake	448	851	SW 8270C

OOO - Surrogate recovery outside QC limits due to matrix interferences.

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827075	SAMPLE DESCRIPTION FB-1W					DATE-TIME TAKEN 09/27/2004 09:00				
Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/06/2004	kak	237	650	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/06/2004	kak	237	650	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/06/2004	kak	237	650	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/06/2004	kak	237	650	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/06/2004	kak	237	650	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/06/2004	kak	237	650	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/06/2004	kak	237	650	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/06/2004	kak	237	650	SW 8082
Decachlorobiphenyl (Surr.)	34		%			10/06/2004	kak	237	650	SW 8082
Tetrachlorometaxylene (Surr.)	59		%			10/06/2004	kak	237	650	SW 8082
VOA Preservation pH	<2		units	NA		10/04/2004	mmk		1062	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Cyanide, Total mdl	0.0031		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
ICP Metals Prep	D		mg/L			10/01/2004	tdo	4078		SW 3010A
Arsenic, (GFAA) LL mdl	0.00319		mg/L	0.00040	0.0014	10/01/2004	mrn	3029	75	SW 7060A
Cadmium, (GFAA) mdl	0.00585		mg/L	0.00014	0.00050	10/01/2004	mrn	3029	59	SW 7131A
Lead, (GFAA) mdl	0.06274		mg/L	0.00050	0.0018	10/04/2004	mrn	3029	98	SW 7421

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Mercury, mdl	0.122	B	ug/L	0.017	0.061	10/06/2004	heh		2430	EPA 245.2
Selenium, (GFAA) mdl	0.0031		mg/L	0.0015	0.0053	10/04/2004	mrm	3029	65	SW 7740
GFAA Total Metals Digestion	D					09/29/2004	mrm	3029		
ICP Metals SW-6010B mdl										
Barium, (ICP) mdl	0.078		mg/L	0.0013	0.0047	10/04/2004	llw	4078	6421	SW 6010B
Chromium, (ICP) mdl	0.022	B	mg/L	0.0026	0.0092	10/04/2004	llw	4078	6437	SW 6010B
Silver, (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/04/2004	llw	4078	6435	SW 6010B
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510
VOLATILE COMPOUNDS										
Benzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Bromodichloromethane	<2.3		ug/L	2.3	7.0	10/02/2004	dmd		5796	SW 8260B
Bromoform	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Bromomethane	<3.1		ug/L	3.1	9.5	10/02/2004	dmd		5796	SW 8260B
Bromobenzene	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Carbon disulfide	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Bromochloromethane	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Dibromomethane	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Chlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.65	B	ug/L	0.65	2.0	10/02/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.80	B	ug/L	0.80	2.4	10/02/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Chloroethane	<0.60		ug/L	0.60	1.8	10/02/2004	dmd		5796	SW 8260B
Chloroform	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Chloromethane	1.7		ug/L	1.2	3.6	10/02/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827076	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 14:30				
4-Chlorotoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
Chlorodibromomethane	<2.1		ug/L	2.1	6.5	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromo-3-chloropropane	<1.5		ug/L	1.5	4.5	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromoethane (EDB)	<2.1		ug/L	2.1	6.5	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichlorobenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
1,3-Dichlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
1,4-Dichlorobenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
Dichlorodifluoromethane	<2.0		ug/L	2	6.0	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
Di-Isopropylether	<1.6		ug/L	1.6	4.8	10/02/2004	dmd	5796	SW 8260B	
1,3-Dichloropropane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
2,2-Dichloropropane	<3.6		ug/L	3.6	11	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloropropene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
trans-1,2-Dichloroethene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
cis-1,2-Dichloroethene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloropropane	<0.60		ug/L	0.60	1.8	10/02/2004	dmd	5796	SW 8260B	
cis-1,3-Dichloropropene	<2.2		ug/L	2.2	6.0	10/02/2004	dmd	5796	SW 8260B	
trans-1,3-Dichloropropene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd	5796	SW 8260B	
Hexachlorobutadiene	<1.1	B	ug/L	1.1	3.3	10/02/2004	dmd	5796	SW 8260B	
Ethylbenzene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd	5796	SW 8260B	
Isopropylbenzene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd	5796	SW 8260B	
p-Isopropyltoluene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	
Hexane	<0.90		ug/L	0.90	2.7	10/02/2004	dmd	5796	SW 8260B	
MTBE	<1.2		ug/L	1.2	3.8	10/02/2004	dmd	5796	SW 8260B	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Methylene chloride	<3.2		ug/L	3.2	9.5	10/02/2004	dmd		5796	SW 8260B
Napthalene	<4.3	B	ug/L	4.3	13	10/02/2004	dmd		5796	SW 8260B
n-Propylbenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Styrene	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<2.0	B	ug/L	2.0	6.0	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<1.2	B	ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
Tetrachloroethene	<1.8		ug/L	1.8	5.5	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<2.4		ug/L	2.4	7.5	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
luene	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
3,5-Trimethylbenzene	<0.70	B	ug/L	0.70	2.1	10/02/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<1.2		ug/L	1.2	3.8	10/02/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.50		ug/L	0.50	2	10/02/2004	dmd		5796	SW 8260B
Trichloroethylene	<2.2		ug/L	2.2	6.5	10/02/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<2.4		ug/L	2.4	7.0	10/02/2004	dmd		5796	SW 8260B
Vinyl chloride	<2.4		ug/L	2.4	7.0	10/02/2004	dmd		5796	SW 8260B
Xylenes, Total	<1.9		ug/L	1.9	5.5	10/02/2004	dmd		5796	SW 8260B
Dibromofluoromethane (surr)	100		%			10/02/2004	dmd		5796	SW 8260B
Toluene-d8 (surr)	91		%			10/02/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	87		%			10/02/2004	dmd		5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<62		ug/L	62	190	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<53.7		ug/L	53.7	161	10/07/2004	ake	448	851	SW 8270C
Anthracene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Benzidine	<45.8		ug/L	45.8	137	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<57.9		ug/L	57.9	174	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<54.7		ug/L	54.7	164	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<55		ug/L	55	170	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<52.6		ug/L	52.6	158	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<59.2		ug/L	59.2	178	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<53		ug/L	53	160	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<58.1		ug/L	58.1	174	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<46.2		ug/L	46.2	139	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<49.6		ug/L	49.6	149	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<65.0		ug/L	65.0	195	10/07/2004	ake	448	851	SW 8270C
Bis(2chloroisopropyl)ether	<46.6		ug/L	46.6	140	10/07/2004	ake	448	851	SW 8270C
4-Bromophenyl phenyl ether	<69.7		ug/L	69.7	209	10/07/2004	ake	448	851	SW 8270C
4-Chloroaniline	<36.0		ug/L	36.0	108	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<49.4		ug/L	49.4	148	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<55.0		ug/L	55.0	165	10/07/2004	ake	448	851	SW 8270C
Chrysene	<56.9		ug/L	56.9	171	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<58.1		ug/L	58.1	174	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<42.0		ug/L	42.0	126	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<53.0		ug/L	53.0	159	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<44.5		ug/L	44.5	134	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<45		ug/L	45	130	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<33.0		ug/L	33.0	99.0	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<53.0		ug/L	53.0	159	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<50.3		ug/L	50.3	151	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Dimethyl phthalate	<55.0		ug/L	55.0	165	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<33.0		ug/L	33.0	99.0	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<60.1		ug/L	60.1	180	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<44.3		ug/L	44.3	133	10/07/2004	ake	448	851	SW 8270C
Fluorene	<45.4		ug/L	45.4	136	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<45.8		ug/L	45.8	137	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<51.3		ug/L	51.3	154	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<37.9		ug/L	37.9	114	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<41.3		ug/L	41.3	124	10/07/2004	ake	448	851	SW 8270C
Indeno(1,2,3-cd)pyrene	<55		ug/L	55	170	10/07/2004	ake	448	851	SW 8270C
Phorone	<50.5		ug/L	50.5	151	10/07/2004	ake	448	851	SW 8270C
Methylnaphthalene	<47.5		ug/L	47.5	142	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<57.1		ug/L	57.1	171	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<47.9		ug/L	47.9	144	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<39.2		ug/L	39.2	118	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<29.0		ug/L	29.0	86.9	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<43.5		ug/L	43.5	130	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	<42.8		ug/L	42.8	128	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<52.0		ug/L	52.0	156	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<58.8		ug/L	58.8	176	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<36.4		ug/L	36.4	109	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<54.5		ug/L	54.5	164	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<54.3		ug/L	54.3	163	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<32.2		ug/L	32.2	96.5	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827076	OF-2					09/27/2004 14:30				
Pyrene	<60		ug/L	60	180	10/07/2004	ake	448	851	SW 8270C
Pyridine	<29.0		ug/L	29.0	86.9	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<52.4		ug/L	52.4	157	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<49.6		ug/L	49.6	149	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	86		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	97		%	100	100	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	102		%	100	100	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<213		ug/L	213	639	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<58		ug/L	58	170	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<52.8		ug/L	52.8	158	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<94.1		ug/L	94.1	283	10/07/2004	ake	448	851	SW 8270C
2,4-Dichlorophenol	<56.7		ug/L	56.7	170	10/07/2004	ake	448	851	SW 8270C
2,4-Dimethylphenol	<31.7		ug/L	31.7	95.2	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrophenol	<55.2		ug/L	55.2	166	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<63.5		ug/L	63.5	190	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<45		ug/L	45	130	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<58.8		ug/L	58.8	176	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<38		ug/L	38	120	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<89.7		ug/L	89.7	268	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<59.2		ug/L	59.2	178	10/07/2004	ake	448	851	SW 8270C
Phenol	<36.6		ug/L	36.6	110	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<68.6		ug/L	68.6	206	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<78.0		ug/L	78.0	234	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	39		%	100	100	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	56		%	100	100	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	93		%	100	100	10/07/2004	ake	448	851	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827076	OF-2	09/27/2004 14:30

Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.2		ug/L	0.2	0.6	10/08/2004	kak	237	651	SW 8082
PCB-1242	<0.2		ug/L	0.2	0.5	10/08/2004	kak	237	651	SW 8082
PCB-1221	<1		ug/L	1	3	10/08/2004	kak	237	651	SW 8082
PCB-1232	<0.05		ug/L	0.05	0.2	10/08/2004	kak	237	651	SW 8082
PCB-1248	<0.1		ug/L	0.1	0.4	10/08/2004	kak	237	651	SW 8082
PCB-1254	<0.2		ug/L	0.2	0.6	10/08/2004	kak	237	651	SW 8082
PCB-1260	<0.2		ug/L	0.2	0.5	10/08/2004	kak	237	651	SW 8082
PCB-1268	<2		ug/L	2	2	10/08/2004	kak	237	651	SW 8082
Decachlorobiphenyl (Surr.)	26		%			10/08/2004	kak	237	651	SW 8082
Trachlorometaxylene (Surr.)	62		%			10/08/2004	kak	237	651	SW 8082
Preservation pH	<2.0		units	NA		10/01/2004	ake		1060	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827077	Sump-2	09/27/2004 16:00

Cyanide, Total mdl	<0.0022		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4
ICP Metals Prep	D		mg/L			10/01/2004	tdo	4078		SW 3010A
Arsenic, (GFAA) LL mdl	0.00107		mg/L	0.00040	0.0014	10/01/2004	mrm	3029	75	SW 7060A
Cadmium, (GFAA) mdl	0.00091		mg/L	0.00014	0.00050	10/01/2004	mrm	3029	59	SW 7131A
Lead, (GFAA) mdl	0.01738		mg/L	0.00050	0.0018	10/04/2004	mrm	3029	98	SW 7421

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2401

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827077	Sump-2					09/27/2004 16:00				
Mercury, mdl	0.082	B	ug/L	0.017	0.061	10/06/2004	heh		2430	EPA 245.2
Selenium, (GFAA) mdl	0.0019		mg/L	0.0015	0.0053	10/04/2004	mrm	3029	65	SW 7740
GFAA Total Metals Digestion	D					09/29/2004	mrm	3029		
ICP Metals SW-6010B mdl										
Barium, (ICP) mdl	0.024		mg/L	0.0013	0.0047	10/04/2004	llw	4078	6421	SW 6010B
Chromium, (ICP) mdl	0.0089	B	mg/L	0.0026	0.0092	10/04/2004	llw	4078	6437	SW 6010B
Silver, (ICP) mdl	<0.0038		mg/L	0.0038	0.0136	10/04/2004	llw	4078	6435	SW 6010B
Prep BNA (MDL)	Complete					10/01/2004	acm	448		SW 3510
VOLATILE COMPOUNDS										
Benzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromodichloromethane	<0.46		ug/L	0.46	1.4	10/02/2004	dmd		5796	SW 8260B
Bromoform	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Bromomethane	<0.62		ug/L	0.62	1.9	10/02/2004	dmd		5796	SW 8260B
Bromobenzene	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Carbon disulfide	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Bromochloromethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
Carbon tetrachloride	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Dibromomethane	<0.44		ug/L	0.44	1.3	10/02/2004	dmd		5796	SW 8260B
Chlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
n-Butylbenzene	<0.13	B	ug/L	0.13	0.39	10/02/2004	dmd		5796	SW 8260B
sec-Butylbenzene	<0.16	B	ug/L	0.16	0.48	10/02/2004	dmd		5796	SW 8260B
tert-Butylbenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloroethane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd		5796	SW 8260B
Chloroform	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Chloromethane	0.35		ug/L	0.24	0.72	10/02/2004	dmd		5796	SW 8260B
2-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B

B - This analyte was detected in the method blank.

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 HOWARD R. GREEN-CR
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10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827077	Sump-2					09/27/2004 16:00				
4-Chlorotoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Chlorodibromomethane	<0.42		ug/L	0.42	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromo-3-chloropropane	<0.30		ug/L	0.30	0.90	10/02/2004	dmd	5796	SW 8260B	
1,2-Dibromoethane (EDB)	<0.42		ug/L	0.42	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,3-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,4-Dichlorobenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Dichlorodifluoromethane	<0.40		ug/L	0.4	1.2	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Di-Isopropylether	<0.32		ug/L	0.32	0.96	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloropropane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloropropane	<0.73		ug/L	0.73	2.2	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloropropene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
1,1-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
trans-1,2-Dichloroethene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
cis-1,2-Dichloroethene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
1,2-Dichloropropane	<0.12		ug/L	0.12	0.36	10/02/2004	dmd	5796	SW 8260B	
cis-1,3-Dichloropropene	<0.43		ug/L	0.43	1.2	10/02/2004	dmd	5796	SW 8260B	
trans-1,3-Dichloropropene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
Hexachlorobutadiene	<0.22	B	ug/L	0.22	0.66	10/02/2004	dmd	5796	SW 8260B	
Ethylbenzene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd	5796	SW 8260B	
Isopropylbenzene	<0.44		ug/L	0.44	1.3	10/02/2004	dmd	5796	SW 8260B	
p-Isopropyltoluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	
Hexane	<0.18		ug/L	0.18	0.54	10/02/2004	dmd	5796	SW 8260B	
MTBE	<0.25		ug/L	0.25	0.75	10/02/2004	dmd	5796	SW 8260B	

B - This analyte was detected in the method blank.

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:00	
Methylene chloride	<0.63		ug/L	0.63	1.9	10/02/2004	dmd		5796	SW 8260B
Napthalene	<0.86	B	ug/L	0.86	2.6	10/02/2004	dmd		5796	SW 8260B
n-Propylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Styrene	<0.41		ug/L	0.41	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,1,2-Tetrachloroethane	<0.40		ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,1,2,2-Tetrachloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichlorobenzene	<0.40	B	ug/L	0.40	1.2	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trichlorobenzene	<0.25	B	ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Tetrachloroethene	<0.37		ug/L	0.37	1.1	10/02/2004	dmd		5796	SW 8260B
1,2,3-Trichloropropane	<0.49		ug/L	0.49	1.5	10/02/2004	dmd		5796	SW 8260B
1,2,4-Trimethylbenzene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
Toluene	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,3,5-Trimethylbenzene	<0.14	B,MSO	ug/L	0.14	0.42	10/02/2004	dmd		5796	SW 8260B
1,1,1-Trichloroethane	<0.25		ug/L	0.25	0.75	10/02/2004	dmd		5796	SW 8260B
1,1,2-Trichloroethane	<0.10		ug/L	0.10	0.3	10/02/2004	dmd		5796	SW 8260B
Trichloroethylene	<0.43		ug/L	0.43	1.3	10/02/2004	dmd		5796	SW 8260B
Trichlorofluoromethane	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Vinyl chloride	<0.47		ug/L	0.47	1.4	10/02/2004	dmd		5796	SW 8260B
Xylenes, Total	<0.38		ug/L	0.38	1.1	10/02/2004	dmd		5796	SW 8260B
Dibromofluoromethane (surr)	101		%			10/02/2004	dmd		5796	SW 8260B
Toluene-d8 (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
4-Bromofluorobenzene (surr)	88		%			10/02/2004	dmd		5796	SW 8260B
BNA - 8270 AQUEOUS WI										
Acenaphthene	<14		ug/L	14	44	10/07/2004	ake	448	851	SW 8270C
Acenaphthylene	<12.6		ug/L	12.6	37.8	10/07/2004	ake	448	851	SW 8270C
Anthracene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C

B - This analyte was detected in the method blank.
 MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
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 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827077	Sump-2					09/27/2004 16:00				
Benzidine	<10.8		ug/L	10.8	32.2	10/07/2004	ake	448	851	SW 8270C
Benzo(a)anthracene	<13.6		ug/L	13.6	40.8	10/07/2004	ake	448	851	SW 8270C
Benzo(b)fluoranthene	<12.8		ug/L	12.8	38.6	10/07/2004	ake	448	851	SW 8270C
Benzo(k)fluoranthene	<13		ug/L	13	39	10/07/2004	ake	448	851	SW 8270C
Benzo(a)pyrene	<12.4		ug/L	12.4	37.0	10/07/2004	ake	448	851	SW 8270C
Benzo(ghi)perylene	<13.9		ug/L	13.9	41.7	10/07/2004	ake	448	851	SW 8270C
Benzyl Alcohol	<12		ug/L	12	38	10/07/2004	ake	448	851	SW 8270C
Benzyl butyl phthalate	<13.6		ug/L	13.6	41.0	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethyl)ether	<10.8		ug/L	10.8	32.6	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroethoxy)methane	<11.6		ug/L	11.6	35.0	10/07/2004	ake	448	851	SW 8270C
Bis(2-ethylhexyl)phthalate	<15.2		ug/L	15.2	45.8	10/07/2004	ake	448	851	SW 8270C
Bis(2-chloroisopropyl)ether	<11.0		ug/L	11.0	32.8	10/07/2004	ake	448	851	SW 8270C
Bromophenyl phenyl ether	<16.4		ug/L	16.4	49.0	10/07/2004	ake	448	851	SW 8270C
2-Chloroaniline	<8.45		ug/L	8.45	25.4	10/07/2004	ake	448	851	SW 8270C
2-Chloronaphthalene	<11.6		ug/L	11.6	34.8	10/07/2004	ake	448	851	SW 8270C
4-Chlorophenylphenyl ether	<12.9		ug/L	12.9	38.7	10/07/2004	ake	448	851	SW 8270C
Chrysene	<13.4		ug/L	13.4	40.0	10/07/2004	ake	448	851	SW 8270C
Dibenzo(a,h)anthracene	<13.6		ug/L	13.6	41.0	10/07/2004	ake	448	851	SW 8270C
Dibenzofuran	<9.85		ug/L	9.85	29.6	10/07/2004	ake	448	851	SW 8270C
Di-n-butylphthalate	<12.4		ug/L	12.4	37.4	10/07/2004	ake	448	851	SW 8270C
1,2-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C
1,3-Dichlorobenzene	<10.4		ug/L	10.4	31.4	10/07/2004	ake	448	851	SW 8270C
1,4-Dichlorobenzene	<10		ug/L	10	32	10/07/2004	ake	448	851	SW 8270C
3,3-Dichlorobenzidine	<7.75		ug/L	7.75	23.2	10/07/2004	ake	448	851	SW 8270C
Diethyl phthalate	<12.4		ug/L	12.4	37.4	10/07/2004	ake	448	851	SW 8270C
1,2-Diphenylhydrazine	<11.8		ug/L	11.8	35.4	10/07/2004	ake	448	851	SW 8270C

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10/19/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827077	Sump-2								09/27/2004 16:00	
Dimethyl phthalate	<12.9		ug/L	12.9	38.7	10/07/2004	ake	448	851	SW 8270C
2,4-Dinitrotoluene	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrotoluene	<7.75		ug/L	7.75	23.2	10/07/2004	ake	448	851	SW 8270C
Di-n-octylphthalate	<14.1		ug/L	14.1	42.3	10/07/2004	ake	448	851	SW 8270C
Fluoranthene	<10.4		ug/L	10.4	31.2	10/07/2004	ake	448	851	SW 8270C
Fluorene	<10.6		ug/L	10.6	32.0	10/07/2004	ake	448	851	SW 8270C
Hexachlorobenzene	<10.8		ug/L	10.8	32.2	10/07/2004	ake	448	851	SW 8270C
Hexachloro-1,3-butadiene	<12.0		ug/L	12.0	36.2	10/07/2004	ake	448	851	SW 8270C
Hexachlorocyclopentadiene	<8.90		ug/L	8.90	26.7	10/07/2004	ake	448	851	SW 8270C
Hexachloroethane	<9.70		ug/L	9.70	29.1	10/07/2004	ake	448	851	SW 8270C
Indeno(1,2,3-cd)pyrene	<13		ug/L	13	39	10/07/2004	ake	448	851	SW 8270C
Isophorone	<11.8		ug/L	11.8	35.6	10/07/2004	ake	448	851	SW 8270C
2-Methylnaphthalene	<11.2		ug/L	11.2	33.4	10/07/2004	ake	448	851	SW 8270C
Naphthalene	<13.4		ug/L	13.4	40.2	10/07/2004	ake	448	851	SW 8270C
2-Nitroaniline	<11.2		ug/L	11.2	33.8	10/07/2004	ake	448	851	SW 8270C
3-Nitroaniline	<9.20		ug/L	9.20	27.6	10/07/2004	ake	448	851	SW 8270C
4-Nitroaniline	<6.80		ug/L	6.80	20.4	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene	<10.2		ug/L	10.2	30.6	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodimethylamine	<10.0		ug/L	10.0	30.2	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiphenylamine	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-propylamine	<12.2		ug/L	12.2	36.6	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodi-n-butylamine	<13.8		ug/L	13.8	41.4	10/07/2004	ake	448	851	SW 8270C
N-Nitrosodiethylamine	<8.55		ug/L	8.55	25.6	10/07/2004	ake	448	851	SW 8270C
Phenanthrene	<12.8		ug/L	12.8	38.4	10/07/2004	ake	448	851	SW 8270C
N-Nitrosopyrrolidine	<12.8		ug/L	12.8	38.2	10/07/2004	ake	448	851	SW 8270C
Pentachlorobenzene	<7.55		ug/L	7.55	22.6	10/07/2004	ake	448	851	SW 8270C

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10/19/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2					DATE-TIME TAKEN 09/27/2004 16:00				
Pyrene	<14		ug/L	14	42	10/07/2004	ake	448	851	SW 8270C
Pyridine	<6.80		ug/L	6.80	20.4	10/07/2004	ake	448	851	SW 8270C
1,2,4,5-Tetrachlorobenzene	<12.3		ug/L	12.3	36.9	10/07/2004	ake	448	851	SW 8270C
1,2,4-Trichlorobenzene	<11.6		ug/L	11.6	35.0	10/07/2004	ake	448	851	SW 8270C
Nitrobenzene-d5 (surr)	72		%	500	500	10/07/2004	ake	448	851	SW 8270C
2-Fluorobiphenyl (surr)	79		%	500	500	10/07/2004	ake	448	851	SW 8270C
Terphenyl-d14 (surr)	94		%	500	500	10/07/2004	ake	448	851	SW 8270C
Benzoic Acid	<50.0		ug/L	50.0	150	10/07/2004	ake	448	851	SW 8270C
4-Chloro-3-methylphenol	<14		ug/L	14	40	10/07/2004	ake	448	851	SW 8270C
2-chlorophenol	<12.4		ug/L	12.4	37.2	10/07/2004	ake	448	851	SW 8270C
Cresols, Total	<22.1		ug/L	22.1	66.5	10/07/2004	ake	448	851	SW 8270C
4-Dichlorophenol	<13.3		ug/L	13.3	39.9	10/07/2004	ake	448	851	SW 8270C
2,4-Dimethylphenol	<7.45		ug/L	7.45	22.4	10/07/2004	ake	448	851	SW 8270C
2,6-Dinitrophenol	<13.0		ug/L	13.0	38.8	10/07/2004	ake	448	851	SW 8270C
2-Methyl-4,6-dinitrophenol	<14.9		ug/L	14.9	44.7	10/07/2004	ake	448	851	SW 8270C
4-Methylphenol	<10		ug/L	10	32	10/07/2004	ake	448	851	SW 8270C
2-Nitrophenol	<13.8		ug/L	13.8	41.4	10/07/2004	ake	448	851	SW 8270C
4-Nitrophenol	<9.0		ug/L	9.0	27	10/07/2004	ake	448	851	SW 8270C
2,5-Dinitrophenol	<21.0		ug/L	21.0	63.0	10/07/2004	ake	448	851	SW 8270C
Pentachlorophenol	<13.9		ug/L	13.9	41.7	10/07/2004	ake	448	851	SW 8270C
Phenol	<8.60		ug/L	8.60	25.8	10/07/2004	ake	448	851	SW 8270C
2,4,5-Trichlorophenol	<16.1		ug/L	16.1	48.3	10/07/2004	ake	448	851	SW 8270C
2,4,6-Trichlorophenol	<18.3		ug/L	18.3	55.0	10/07/2004	ake	448	851	SW 8270C
Phenol-d6 (surr)	30		%	500	500	10/07/2004	ake	448	851	SW 8270C
2-Fluorophenol (surr)	44		%	500	500	10/07/2004	ake	448	851	SW 8270C
Tribromophenol (surr)	96		%	500	500	10/07/2004	ake	448	851	SW 8270C

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10/19/2004

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Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827077	SAMPLE DESCRIPTION Sump-2					DATE-TIME TAKEN 09/27/2004 16:00				
Prep PCBs Wisconsin Aqueous	Complete					10/04/2004	acm	237		SW 3510
PCBs Wisconsin Aqueous										
PCB 1016	<0.10		ug/L	0.10	0.30	10/06/2004	kak	237	650	SW 8082
PCB-1242	<0.085		ug/L	0.085	0.26	10/06/2004	kak	237	650	SW 8082
PCB-1221	<0.49		ug/L	0.49	1.5	10/06/2004	kak	237	650	SW 8082
PCB-1232	<0.027		ug/L	0.027	0.081	10/06/2004	kak	237	650	SW 8082
PCB-1248	<0.065		ug/L	0.065	0.20	10/06/2004	kak	237	650	SW 8082
PCB-1254	<0.098		ug/L	0.098	0.29	10/06/2004	kak	237	650	SW 8082
PCB-1260	<0.091		ug/L	0.091	0.27	10/06/2004	kak	237	650	SW 8082
PCB-1268	<1.0		ug/L	1.0	1.0	10/06/2004	kak	237	650	SW 8082
Decachlorobiphenyl (Surr.)	50		%			10/06/2004	kak	237	650	SW 8082
Tetrachlorometaxylene (Surr.)	14		%			10/06/2004	kak	237	650	SW 8082
VOA Preservation pH	<2		units	NA		10/04/2004	mmk		1062	SW 9041A

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827078	MW-8B					09/27/2004 09:45				
Cyanide, Total mdl	0.0494		mg/L	0.0022	0.0078	10/04/2004	lbb		1402	EPA 335.4

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
Cyanide, mdl	0.334		mg/kg dw	0.14	0.64	10/08/2004	lbb		878	SW 9012
Solids, Total	78.11		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	3.03	MSO	mg/kg dw	0.27	1.3	10/01/2004	mrm	915	635	SW 7060A
Mercury, mdl	0.047	B	mg/kg dw	0.0015	0.0055	10/12/2004	heh		2066	SW 7471A
GFAA Metals Digestion	2.019		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	2.209		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	35		mg/kg dw	0.250	0.64	10/04/2004	llw	1510	2811	SW 6010B
Cadmium, (ICP) mdl	2.7		mg/kg dw	0.31	1.1	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	27		mg/kg dw	0.50	1.3	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	26		mg/kg dw	6.4	6.4	10/04/2004	llw	1510	2833	SW 6010B
Mercury, (ICP) mdl	<13		mg/kg dw	9.6	9.6	10/04/2004	llw	1510	2810	SW 6010B
Vanadium, (ICP) mdl	<0.99		mg/kg dw	0.73	1.3	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm		115	SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm		839	SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	37.4		ug/kg dw	10	31	10/09/2004	mmk		1059	SW 8260B
Benzene	<0.70		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.90		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<2.88		ug/kg dw	2.88	8.64	10/09/2004	mmk		1059	SW 8260B
Bromoform	<4.29		ug/kg dw	4.29	12.8	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<6.27		ug/kg dw	6.27	18.6	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.1		ug/kg dw	1.1	2.56	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	7.0		ug/kg dw	0.60	6.4	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<6.4		ug/kg dw	1.86	6.4	10/09/2004	mmk		1059	SW 8260B

B - This analyte was detected in the method blank.

IE - Elevated Reporting Limit due to interelement interference.

MSO - MS and/or MSD recoveries are outside of control limits

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
tert-Butylbenzene	14.1		ug/kg dw	0.6	6.4	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<7.7		ug/kg dw	7.7	23.0	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.544		ug/kg dw	0.544	1.632	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.79		ug/kg dw	1.79	5.38	10/09/2004	mmk		1059	SW 8260B
Chloroethane	<0.90		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.9	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<0.70		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<13		ug/kg dw	13	38	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<3.78		ug/kg dw	3.78	11.3	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<1.0		ug/kg dw	1.0	3.1	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.429		ug/kg dw	0.429	1.28	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.55		ug/kg dw	0.55	1.65	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.46		ug/kg dw	0.46	1.38	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloropropene	<1.1		ug/kg dw	1.1	3.26	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.0		ug/kg dw	1.0	3.07	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
trans-1,3-Dichloropropene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	2.53		ug/kg dw	0.70	2.11	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.71		ug/kg dw	3.71	11.1	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.70		ug/kg dw	0.70	2.56	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	2.91		ug/kg dw	0.46	1.38	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.6		ug/kg dw	0.6	1.9	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<64		ug/kg dw	9.0	64	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	21.3		ug/kg dw	0.90	2.56	10/09/2004	mmk		1059	SW 8260B
MTBE	<6.08		ug/kg dw	6.08	18.2	10/09/2004	mmk		1059	SW 8260B
Naphthalene	13.4		ug/kg dw	1.0	6.4	10/09/2004	mmk		1059	SW 8260B
m-Propylbenzene	<6.4		ug/kg dw	0.70	6.4	10/09/2004	mmk		1059	SW 8260B
Styrene	<0.49		ug/kg dw	0.49	1.46	10/09/2004	mmk		1059	SW 8260B
1,1,2-Tetrachloroethane	<2.30		ug/kg dw	2.30	6.91	10/09/2004	mmk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.4		ug/kg dw	1.4	4.2	10/09/2004	mmk		1059	SW 8260B
Tetrachloroethene	<0.83		ug/kg dw	0.83	2.50	10/09/2004	mmk		1059	SW 8260B
Toluene	4.46		ug/kg dw	0.90	2.69	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichlorobenzene	<6.4		ug/kg dw	2.0	6.4	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trichlorobenzene	<6.4		ug/kg dw	0.41	6.4	10/09/2004	mmk		1059	SW 8260B
1,1,1-Trichloroethane	<1.34		ug/kg dw	1.34	4.03	10/09/2004	mmk		1059	SW 8260B
1,1,2-Trichloroethane	<1.5		ug/kg dw	1.5	4.6	10/09/2004	mmk		1059	SW 8260B
Trichloroethylene	<1.2		ug/kg dw	1.2	3.65	10/09/2004	mmk		1059	SW 8260B
Trichlorofluoromethane	<0.56		ug/kg dw	0.56	1.72	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichloropropane	<1.2		ug/kg dw	1.2	3.5	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trimethylbenzene	16.1		ug/kg dw	1.8	6.4	10/09/2004	mmk		1059	SW 8260B
1,3,5-Trimethylbenzene	<6.4		ug/kg dw	2.9	6.4	10/09/2004	mmk		1059	SW 8260B
Vinyl Chloride	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
Xylenes, Total	<6.4		ug/kg dw	2.0	6.4	10/09/2004	mmk		1059	SW 8260B
4-Bromofluorobenzene (surr)	96		%			10/09/2004	mmk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mmk		1059	SW 8260B
Toluene-d8 (surr)	99		%			10/09/2004	mmk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	4.4		mg/kg dw	1.7	4.80	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	2.8		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
Anthracene	8.64		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
Benzidine	<2.4		mg/kg dw	2.4	7.48	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	16.6		mg/kg dw	0.91	2.66	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	12.8		mg/kg dw	0.91	2.82	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	13.3		mg/kg dw	1.2	3.74	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	14.7		mg/kg dw	1.2	3.74	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	8.26		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<2.0		mg/kg dw	2.0	6.20	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<1.1		mg/kg dw	1.1	3.28	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<1.9		mg/kg dw	1.9	5.94	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<1.9		mg/kg dw	1.9	5.65	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	1.1		mg/kg dw	0.82	2.4	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<2.2		mg/kg dw	2.2	6.55	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<1.2		mg/kg dw	1.2	3.66	10/01/2004	ake	115	185	SW 8270C
Carbazole	6.0		mg/kg dw	1.0	2.97	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<2.64		mg/kg dw	2.64	7.92	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<1.8		mg/kg dw	1.8	5.1	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<1.4		mg/kg dw	1.4	4.20	10/01/2004	ake	115	185	SW 8270C
Chrysene	18.4		mg/kg dw	0.77	2.3	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

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 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

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Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO. 827079
 SAMPLE DESCRIPTION OF-2

DATE-TIME TAKEN
 09/27/2004 15:00

Dibenzo(a,h)anthracene	2.0		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	3.6		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<1.1		mg/kg dw	1.1	3.28	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<2.61		mg/kg dw	2.61	7.82	10/01/2004	ake	115	185	SW 8270C
1,3-Dichlorobenzene	<2.3		mg/kg dw	2.3	7.02	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<2.2		mg/kg dw	2.2	6.50	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<2.71		mg/kg dw	2.71	8.13	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<1.2		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
Dimethyl phthalate	1.5		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	11.1		mg/kg dw	1.2	3.58	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<1.7		mg/kg dw	1.7	5.03	10/01/2004	ake	115	185	SW 8270C
n-octylphthalate	<1.5		mg/kg dw	1.5	4.6	10/01/2004	ake	115	185	SW 8270C
fluoranthene	47.0		mg/kg dw	0.91	2.74	10/01/2004	ake	115	185	SW 8270C
fluorene	6.1		mg/kg dw	1.3	4.05	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.72		mg/kg dw	0.72	2.2	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<1.5		mg/kg dw	1.5	4.42	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<1.7		mg/kg dw	1.7	5.08	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<2.0		mg/kg dw	2.0	6.25	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	9.35		mg/kg dw	0.82	2.3	10/01/2004	ake	115	185	SW 8270C
Isophorone	<1.5		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	1.8		mg/kg dw	1.7	4.88	10/01/2004	ake	115	185	SW 8270C
Naphthalene	3.7		mg/kg dw	1.8	5.59	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<1.8		mg/kg dw	1.8	5.1	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<1.5		mg/kg dw	1.5	4.49	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<1.7		mg/kg dw	1.7	5.29	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<1.9		mg/kg dw	1.9	5.80	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827079	OF-2					09/27/2004 15:00				
N-Nitrosodimethylamine	<2.82		mg/kg dw	2.82	8.44	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.86		mg/kg dw	0.86	2.59	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<2.2		mg/kg dw	2.2	6.30	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	40.5		mg/kg dw	0.96	2.89	10/01/2004	ake	115	185	SW 8270C
Pyrene	35.1		mg/kg dw	1.3	3.8	10/01/2004	ake	115	185	SW 8270C
Pyridine	<2.84		mg/kg dw	2.84	8.54	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<1.8		mg/kg dw	1.8	5.59	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	106		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	115		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<8.2		mg/kg dw	8.2	26	10/01/2004	ake	115	185	SW 8270C
4-Chloro-3-methylphenol	<1.8		mg/kg dw	1.8	5.49	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<2.2		mg/kg dw	2.2	6.55	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<1.9		mg/kg dw	1.9	5.94	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<2.0		mg/kg dw	2.0	6.1	10/01/2004	ake	115	185	SW 8270C
Cresols, Total	<4.02		mg/kg dw	4.02	12.0	10/01/2004	ake	115	185	SW 8270C
2,4-Dichlorophenol	<1.9		mg/kg dw	1.9	5.65	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<1.7		mg/kg dw	1.7	4.80	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<0.72		mg/kg dw	0.72	2.2	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<2.66		mg/kg dw	2.66	8.03	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<2.84		mg/kg dw	2.84	8.54	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<1.7		mg/kg dw	1.7	5.03	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	<1.9		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
Phenol	<1.9		mg/kg dw	1.9	5.90	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<1.7		mg/kg dw	1.7	5.29	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<1.4		mg/kg dw	1.4	4.12	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827079	SAMPLE DESCRIPTION OF-2					DATE-TIME TAKEN 09/27/2004 15:00				
Phenol-d6 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	87		%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	78		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<0.6		mg/kg dw	0.4	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1221	<0.6		mg/kg dw	0.5	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1232	<0.6		mg/kg dw	0.07	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1242	<0.6		mg/kg dw	0.1	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1248	<0.6		mg/kg dw	0.024	0.32	10/13/2004	kak	839	1909	SW 8082
PCB-1254	<0.6		mg/kg dw	0.06	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1260	<0.6		mg/kg dw	0.4	0.6	10/13/2004	kak	839	1909	SW 8082
PCB-1268	<0.6		mg/kg dw	0.2	0.6	10/13/2004	kak	839	1909	SW 8082
1,2-dichlorobiphenyl (Surr.)	0	NS	%	1	1	10/13/2004	kak	839	1909	SW 8082
Tetrachlorometaxylene (Surr.)	105		%	1	1	10/13/2004	kak	839	1909	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
Cyanide, mdl	0.806		mg/kg dw	0.23	1.0	10/08/2004	lbb		878	SW 9012
Solids, Total	47.62		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	8.78		mg/kg dw	0.44	2.1	10/01/2004	mrn	915	635	SW 7060A
Mercury, mdl	0.229	B	mg/kg dw	0.0025	0.0090	10/12/2004	heh		2066	SW 7471A

B - This analyte was detected in the method blank.
 N - Spike recovery for this analyte is out of control
 S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION								DATE-TIME TAKEN	
827080	Sump-2								09/27/2004 16:30	
GFAA Metals Digestion	1.195		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	1.071		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	140		mg/kg dw	0.409	1.0	10/04/2004	llw	1510	2811	SW 6010B
Cadmium, (ICP) mdl	9.0		mg/kg dw	0.50	1.8	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	273		mg/kg dw	0.82	2.1	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	420		mg/kg dw	10	10	10/04/2004	llw	1510	2833	SW 6010B
Selenium, (ICP) mdl	<46		mg/kg dw	16	16	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	<3.6		mg/kg dw	1.2	2.1	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	COMPLETE					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	<17		ug/kg dw	17	50	10/09/2004	mmk		1059	SW 8260B
Benzene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<4.72		ug/kg dw	4.72	14.2	10/09/2004	mmk		1059	SW 8260B
Bromoform	<7.03		ug/kg dw	7.03	21.0	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<10.3		ug/kg dw	10.3	30.4	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.8		ug/kg dw	1.8	4.20	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<10		ug/kg dw	0.99	10	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<10		ug/kg dw	3.04	10	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	15		ug/kg dw	1	10	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<13		ug/kg dw	13	37.8	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.892		ug/kg dw	0.892	2.677	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<2.94		ug/kg dw	2.94	8.82	10/09/2004	mmk		1059	SW 8260B

IE - Elevated Reporting Limit due to interelement interference.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION
827080	Sump-2

DATE-TIME TAKEN
 09/27/2004 16:30

Chloroethane	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<1		ug/kg dw	1	3.1	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<21		ug/kg dw	21	63	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<6.19		ug/kg dw	6.19	18.6	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk		1059	SW 8260B
chlorodifluoromethane	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
1-Dichloroethane	<1.7		ug/kg dw	1.7	5.0	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.703		ug/kg dw	0.703	2.10	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.90		ug/kg dw	0.90	2.71	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.76		ug/kg dw	0.76	2.27	10/09/2004	mmk		1059	SW 8260
1,1-Dichloropropene	<1.8		ug/kg dw	1.8	5.35	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.7		ug/kg dw	1.7	5.04	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	<1.2		ug/kg dw	1.2	3.46	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<6.09		ug/kg dw	6.09	18.3	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<1.2		ug/kg dw	1.2	4.20	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION							DATE-TIME TAKEN		
827080	Sump-2							09/27/2004 16:30		
Isopropylbenzene	<0.76		ug/kg dw	0.76	2.27	10/09/2004	mmk	1059	SW	8260B
p-Isopropyltoluene	<1		ug/kg dw	1	3.1	10/09/2004	mmk	1059	SW	8260B
Methylene chloride	<100		ug/kg dw	15	100	10/09/2004	mmk	1059	SW	8260B
Methyl isobutyl ketone	<1.5		ug/kg dw	1.5	4.20	10/09/2004	mmk	1059	SW	8260B
MTBE	<9.97		ug/kg dw	9.97	29.8	10/09/2004	mmk	1059	SW	8260B
Naphthalene	<10		ug/kg dw	1.7	10	10/09/2004	mmk	1059	SW	8260B
n-Propylbenzene	<10		ug/kg dw	1.2	10	10/09/2004	mmk	1059	SW	8260B
Styrene	<0.80		ug/kg dw	0.80	2.39	10/09/2004	mmk	1059	SW	8260B
1,1,1,2-Tetrachloroethane	<3.78		ug/kg dw	3.78	11.3	10/09/2004	mmk	1059	SW	8260B
1,1,2,2-Tetrachloroethane	<2.3		ug/kg dw	2.3	6.9	10/09/2004	mmk	1059	SW	8260B
Tetrachloroethene	<1.4		ug/kg dw	1.4	4.09	10/09/2004	mmk	1059	SW	8260B
Toluene	<1.5		ug/kg dw	1.5	4.41	10/09/2004	mmk	1059	SW	8260B
1,2,3-Trichlorobenzene	<10		ug/kg dw	3.4	10	10/09/2004	mmk	1059	SW	8260B
1,2,4-Trichlorobenzene	<10		ug/kg dw	0.67	10	10/09/2004	mmk	1059	SW	8260B
1,1,1-Trichloroethane	<2.20		ug/kg dw	2.20	6.61	10/09/2004	mmk	1059	SW	8260B
1,1,2-Trichloroethane	<2.5		ug/kg dw	2.5	7.6	10/09/2004	mmk	1059	SW	8260B
Trichloroethylene	<2.0		ug/kg dw	2.0	5.98	10/09/2004	mmk	1059	SW	8260B
Trichlorofluoromethane	<0.92		ug/kg dw	0.92	2.81	10/09/2004	mmk	1059	SW	8260B
1,2,3-Trichloropropane	<1.9		ug/kg dw	1.9	5.7	10/09/2004	mmk	1059	SW	8260B
1,2,4-Trimethylbenzene	<10		ug/kg dw	2.9	10	10/09/2004	mmk	1059	SW	8260B
1,3,5-Trimethylbenzene	<10		ug/kg dw	4.8	10	10/09/2004	mmk	1059	SW	8260B
Vinyl Chloride	<1.6		ug/kg dw	1.6	4.72	10/09/2004	mmk	1059	SW	8260B
Xylenes, Total	<10		ug/kg dw	3.4	10	10/09/2004	mmk	1059	SW	8260B
4-Bromofluorobenzene (surr)	96		%			10/09/2004	mmk	1059	SW	8260B
Dibromofluoromethane (surr)	99		%			10/09/2004	mmk	1059	SW	8260B
Toluene-d8 (surr)	98		%			10/09/2004	mmk	1059	SW	8260B

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
BNA Soil 8270 MDL										
Acenaphthene	<4.0		mg/kg dw	4.0	11.7	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
Anthracene	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
Benzidine	<6.1		mg/kg dw	6.1	18.1	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<2.3		mg/kg dw	2.3	6.49	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<2.3		mg/kg dw	2.3	6.85	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	<2.9		mg/kg dw	2.9	9.07	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	<2.9		mg/kg dw	2.9	9.07	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<5.0		mg/kg dw	5.0	15.1	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<2.7		mg/kg dw	2.7	7.96	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<4.8		mg/kg dw	4.8	14.4	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<4.6		mg/kg dw	4.6	13.7	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	32.8		mg/kg dw	2.0	5.9	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<5.2		mg/kg dw	5.2	15.9	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<2.9		mg/kg dw	2.9	8.88	10/01/2004	ake	115	185	SW 8270C
Carbazole	<2.5		mg/kg dw	2.5	7.22	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<6.43		mg/kg dw	6.43	19.3	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<4.4		mg/kg dw	4.4	12	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<3.4		mg/kg dw	3.4	10.2	10/01/2004	ake	115	185	SW 8270C
Chrysene	<1.8		mg/kg dw	1.8	5.5	10/01/2004	ake	115	185	SW 8270C
Dibenzo(a,h)anthracene	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<2.7		mg/kg dw	2.7	7.96	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<6.36		mg/kg dw	6.36	19.0	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827080	SAMPLE DESCRIPTION Sump-2								DATE-TIME TAKEN 09/27/2004 16:30	
1,3-Dichlorobenzene	<5.7		mg/kg dw	5.7	17.0	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<5.2		mg/kg dw	5.2	15.8	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<6.61		mg/kg dw	6.61	19.8	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
Dimethyl phthalate	<2.5		mg/kg dw	2.5	7.77	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	<2.9		mg/kg dw	2.9	8.71	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<4.0		mg/kg dw	4.0	12.2	10/01/2004	ake	115	185	SW 8270C
Di-n-octylphthalate	<3.8		mg/kg dw	3.8	11	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<2.3		mg/kg dw	2.3	6.68	10/01/2004	ake	115	185	SW 8270C
Fluorene	<3.1		mg/kg dw	3.1	9.81	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<1.7		mg/kg dw	1.7	5.5	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<3.6		mg/kg dw	3.6	10.8	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<4.2		mg/kg dw	4.2	12.3	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<5.0		mg/kg dw	5.0	15.2	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<2.0		mg/kg dw	2.0	5.7	10/01/2004	ake	115	185	SW 8270C
Isophorone	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	<4.0		mg/kg dw	4.0	11.8	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<4.4		mg/kg dw	4.4	13.6	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<4.4		mg/kg dw	4.4	12	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<3.8		mg/kg dw	3.8	10.9	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<4.2		mg/kg dw	4.2	12.9	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<4.6		mg/kg dw	4.6	14.1	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<6.85		mg/kg dw	6.85	20.5	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<2.1		mg/kg dw	2.1	6.30	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<5.2		mg/kg dw	5.2	15.3	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<2.3		mg/kg dw	2.3	7.03	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827080	Sump-2					09/27/2004 16:30				
Pyrene	<3.1		mg/kg dw	3.1	9.2	10/01/2004	ake	115	185	SW 8270C
Pyridine	<6.91		mg/kg dw	6.91	20.7	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<4.4		mg/kg dw	4.4	13.6	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	92		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	104		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	109		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<20		mg/kg dw	20	61	10/01/2004	ake	115	185	SW 8270C
4-Chloro-3-methylphenol	<4.4		mg/kg dw	4.4	13.3	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<5.2		mg/kg dw	5.2	15.9	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<4.8		mg/kg dw	4.8	14.4	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<5.0		mg/kg dw	5.0	15	10/01/2004	ake	115	185	SW 8270C
Resols, Total	<9.76		mg/kg dw	9.76	29.2	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorophenol	<4.6		mg/kg dw	4.6	13.7	10/01/2004	ake	115	185	SW 8270C
1,3-Dimethylphenol	<4.0		mg/kg dw	4.0	11.7	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<1.7		mg/kg dw	1.7	5.2	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<6.49		mg/kg dw	6.49	19.5	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<6.91		mg/kg dw	6.91	20.7	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<4.0		mg/kg dw	4.0	12.2	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
Phenol	<4.6		mg/kg dw	4.6	14.3	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<4.2		mg/kg dw	4.2	12.9	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<3.4		mg/kg dw	3.4	10.0	10/01/2004	ake	115	185	SW 8270C
Phenol-d6 (surr)	52	OOO	%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	51	OOO	%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	69		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										

OOO - Surrogate recovery outside QC limits due to matrix interferences.

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827080	SAMPLE DESCRIPTION Sump-2					DATE-TIME TAKEN 09/27/2004 16:30				
PCB-1016	<1		mg/kg dw	0.6	1	10/13/2004	kak	839	1908	SW 8082
PCB-1221	<1		mg/kg dw	0.8	1	10/13/2004	kak	839	1908	SW 8082
PCB-1232	<1		mg/kg dw	0.1	1	10/13/2004	kak	839	1908	SW 8082
PCB-1242	<1		mg/kg dw	0.2	1	10/13/2004	kak	839	1908	SW 8082
PCB-1248	<1		mg/kg dw	0.08	1	10/13/2004	kak	839	1908	SW 8082
PCB-1254	<1		mg/kg dw	0.1	1	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<1		mg/kg dw	0.6	1	10/13/2004	kak	839	1908	SW 8082
PCB-1268	<1		mg/kg dw	0.3	1	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	NS	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr.)	82		%	1	1	10/13/2004	kak	839	1908	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
Cyanide, mdl	0.196		mg/kg dw	0.15	0.69	10/08/2004	lbb		878	SW 9012
Solids, Total	72.91		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	5.42		mg/kg dw	0.29	1.4	10/01/2004	mrn	915	635	SW 7060A
Mercury, mdl	0.073	B	mg/kg dw	0.0016	0.0059	10/12/2004	heh		2066	SW 7471A
GFAA Metals Digestion	1.664		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	1.225		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl										
Barium, (ICP) mdl	27		mg/kg dw	0.267	0.69	10/04/2004	llw	1510	2811	SW 6010B

B - This analyte was detected in the method blank.
 N - Spike recovery for this analyte is out of control
 S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
Cadmium, (ICP) mdl	0.92		mg/kg dw	0.33	1.2	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	45		mg/kg dw	0.53	1.4	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	32		mg/kg dw	6.9	6.9	10/04/2004	llw	1510	2833	SW 6010B
Selenium, (ICP) mdl	<10		mg/kg dw	10	10	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	<0.78		mg/kg dw	0.78	1.4	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	<11		ug/kg dw	11	33	10/09/2004	mmk		1059	SW 8260B
Benzene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<3.09		ug/kg dw	3.09	9.26	10/09/2004	mmk		1059	SW 8260B
Bromoform	<4.59		ug/kg dw	4.59	13.7	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<6.72		ug/kg dw	6.72	19.9	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	<1.2		ug/kg dw	1.2	2.74	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<6.9		ug/kg dw	0.64	6.9	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<6.9		ug/kg dw	1.99	6.9	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	<6.9		ug/kg dw	0.7	6.9	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<8.2		ug/kg dw	8.2	24.7	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.583		ug/kg dw	0.583	1.749	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.92		ug/kg dw	1.92	5.76	10/09/2004	mmk		1059	SW 8260B
Chloroethane	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
Chloroform	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.7		ug/kg dw	0.7	2.1	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
4-Chlorotoluene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<14		ug/kg dw	14	41	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<4.05		ug/kg dw	4.05	12.1	10/09/2004	mmk		1059	SW 8260B
Dibromomethane	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<1.1		ug/kg dw	1.1	3.3	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.459		ug/kg dw	0.459	1.37	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.59		ug/kg dw	0.59	1.77	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
2,2-Dichloropropane	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mmk		1059	SW 8260
1,1-Dichloropropene	<1.2		ug/kg dw	1.2	3.50	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<1.1		ug/kg dw	1.1	3.29	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	<0.75		ug/kg dw	0.75	2.26	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.98		ug/kg dw	3.98	11.9	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.75		ug/kg dw	0.75	2.74	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.7		ug/kg dw	0.7	2.1	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<69		ug/kg dw	9.6	69	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	<0.96		ug/kg dw	0.96	2.74	10/09/2004	mmk		1059	SW 8260B

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
MTBE	<6.51		ug/kg dw	6.51	19.5	10/09/2004	mmk		1059	SW 8260B
Naphthalene	<6.9		ug/kg dw	1.1	6.9	10/09/2004	mmk		1059	SW 8260B
n-Propylbenzene	<6.9		ug/kg dw	0.75	6.9	10/09/2004	mmk		1059	SW 8260B
Styrene	<0.52		ug/kg dw	0.52	1.56	10/09/2004	mmk		1059	SW 8260B
1,1,1,2-Tetrachloroethane	<2.47		ug/kg dw	2.47	7.41	10/09/2004	mmk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.5		ug/kg dw	1.5	4.5	10/09/2004	mmk		1059	SW 8260B
Tetrachloroethene	<0.89		ug/kg dw	0.89	2.67	10/09/2004	mmk		1059	SW 8260B
Toluene	<0.96		ug/kg dw	0.96	2.88	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichlorobenzene	<6.9		ug/kg dw	2.2	6.9	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trichlorobenzene	<6.9		ug/kg dw	0.44	6.9	10/09/2004	mmk		1059	SW 8260B
1,1,1-Trichloroethane	<1.44		ug/kg dw	1.44	4.32	10/09/2004	mmk		1059	SW 8260B
1,1,2-Trichloroethane	<1.6		ug/kg dw	1.6	4.9	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethylene	<1.3		ug/kg dw	1.3	3.91	10/09/2004	mmk		1059	SW 8260B
Trichlorofluoromethane	<0.60		ug/kg dw	0.60	1.84	10/09/2004	mmk		1059	SW 8260B
1,2,3-Trichloropropane	<1.2		ug/kg dw	1.2	3.7	10/09/2004	mmk		1059	SW 8260B
1,2,4-Trimethylbenzene	<6.9		ug/kg dw	1.9	6.9	10/09/2004	mmk		1059	SW 8260B
1,3,5-Trimethylbenzene	<6.9		ug/kg dw	3.2	6.9	10/09/2004	mmk		1059	SW 8260B
Vinyl Chloride	<1.0		ug/kg dw	1.0	3.09	10/09/2004	mmk		1059	SW 8260B
Xylenes, Total	<6.9		ug/kg dw	2.2	6.9	10/09/2004	mmk		1059	SW 8260B
4-Bromofluorobenzene (surr)	99		%			10/09/2004	mmk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mmk		1059	SW 8260B
Toluene-d8 (surr)	100		%			10/09/2004	mmk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.88		mg/kg dw	0.88	2.58	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
Anthracene	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827081	SAMPLE DESCRIPTION GW-1					DATE-TIME TAKEN 09/27/2004 10:30				
Benzidine	<1.3		mg/kg dw	1.3	4.02	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<0.49		mg/kg dw	0.49	1.43	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<0.49		mg/kg dw	0.49	1.51	10/01/2004	ake	115	185	SW 8270C
Benzo(k)fluoranthene	<0.66		mg/kg dw	0.66	2.00	10/01/2004	ake	115	185	SW 8270C
Benzo(a)pyrene	<0.66		mg/kg dw	0.66	2.00	10/01/2004	ake	115	185	SW 8270C
Benzo(ghi)perylene	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C
Benzyl alcohol	<1.1		mg/kg dw	1.1	3.33	10/01/2004	ake	115	185	SW 8270C
Benzyl butyl phthalate	<0.60		mg/kg dw	0.60	1.76	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethyl)ether	<1.1		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C
Bis(2-chloroethoxy)methane	<1.0		mg/kg dw	1.0	3.03	10/01/2004	ake	115	185	SW 8270C
Bis(2-ethylhexyl)phthalate	<0.44		mg/kg dw	0.44	1.3	10/01/2004	ake	115	185	SW 8270C
Bis(2chloroisopropyl)ether	<1.2		mg/kg dw	1.2	3.52	10/01/2004	ake	115	185	SW 8270C
4-Bromophenyl phenyl ether	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
Carbazole	<0.55		mg/kg dw	0.55	1.59	10/01/2004	ake	115	185	SW 8270C
4-Chloroaniline	<1.41		mg/kg dw	1.41	4.25	10/01/2004	ake	115	185	SW 8270C
2-Chloronaphthalene	<0.96		mg/kg dw	0.96	2.7	10/01/2004	ake	115	185	SW 8270C
4-Chlorophenylphenyl ether	<0.77		mg/kg dw	0.77	2.25	10/01/2004	ake	115	185	SW 8270C
Chrysene	<0.41		mg/kg dw	0.41	1.2	10/01/2004	ake	115	185	SW 8270C
Dibenzo(a,h)anthracene	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C
Dibenzofuran	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C
Di-n-butylphthalate	<0.60		mg/kg dw	0.60	1.76	10/01/2004	ake	115	185	SW 8270C
1,2-Dichlorobenzene	<1.40		mg/kg dw	1.40	4.20	10/01/2004	ake	115	185	SW 8270C
1,3-Dichlorobenzene	<1.3		mg/kg dw	1.3	3.77	10/01/2004	ake	115	185	SW 8270C
1,4-Dichlorobenzene	<1.2		mg/kg dw	1.2	3.50	10/01/2004	ake	115	185	SW 8270C
3,3-Dichlorobenzidine	<1.45		mg/kg dw	1.45	4.36	10/01/2004	ake	115	185	SW 8270C
Diethyl phthalate	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C



ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
Dimethyl phthalate	<0.58		mg/kg dw	0.58	1.71	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrotoluene	<0.66		mg/kg dw	0.66	1.92	10/01/2004	ake	115	185	SW 8270C
2,6-Dinitrotoluene	<0.91		mg/kg dw	0.91	2.70	10/01/2004	ake	115	185	SW 8270C
Di-n-octylphthalate	<0.82		mg/kg dw	0.82	2.5	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<0.49		mg/kg dw	0.49	1.47	10/01/2004	ake	115	185	SW 8270C
Fluorene	<0.71		mg/kg dw	0.71	2.17	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.38		mg/kg dw	0.38	1.2	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<0.80		mg/kg dw	0.80	2.37	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<0.93		mg/kg dw	0.93	2.73	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<1.1		mg/kg dw	1.1	3.36	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.44		mg/kg dw	0.44	1.3	10/01/2004	ake	115	185	SW 8270C
Phorone	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
Methylnaphthalene	<0.88		mg/kg dw	0.88	2.62	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<0.99		mg/kg dw	0.99	3.00	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<0.96		mg/kg dw	0.96	2.7	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<0.82		mg/kg dw	0.82	2.41	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<0.93		mg/kg dw	0.93	2.84	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<1.0		mg/kg dw	1.0	3.11	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<1.51		mg/kg dw	1.51	4.53	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.47		mg/kg dw	0.47	1.39	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<1.2		mg/kg dw	1.2	3.39	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<0.52		mg/kg dw	0.52	1.55	10/01/2004	ake	115	185	SW 8270C
Pyrene	<0.69		mg/kg dw	0.69	2.1	10/01/2004	ake	115	185	SW 8270C
Pyridine	<1.52		mg/kg dw	1.52	4.58	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<0.99		mg/kg dw	0.99	3.00	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	88		%			10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827081	GW-1					09/27/2004 10:30				
2-Fluorobiphenyl (surr)	102		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	107		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<4.4		mg/kg dw	4.4	14	10/01/2004	ake	115	185	SW 8270C
4-Chloro-3-methylphenol	<0.99		mg/kg dw	0.99	2.95	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<1.2		mg/kg dw	1.2	3.52	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<1.1		mg/kg dw	1.1	3.20	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<1.1		mg/kg dw	1.1	3.3	10/01/2004	ake	115	185	SW 8270C
Cresols, Total	<2.15		mg/kg dw	2.15	6.47	10/01/2004	ake	115	185	SW 8270C
2,4-Dichlorophenol	<1.0		mg/kg dw	1.0	3.03	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<0.88		mg/kg dw	0.88	2.58	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<0.38		mg/kg dw	0.38	1.2	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<1.43		mg/kg dw	1.43	4.31	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<1.52		mg/kg dw	1.52	4.58	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<0.91		mg/kg dw	0.91	2.70	10/01/2004	ake	115	185	SW 8270C
Pentachlorophenol	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C
Phenol	<1.0		mg/kg dw	1.0	3.17	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<0.93		mg/kg dw	0.93	2.84	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<0.74		mg/kg dw	0.74	2.21	10/01/2004	ake	115	185	SW 8270C
Phenol-d6 (surr)	94		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	89		%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	101		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous		R								
PCB-1016	<0.7		mg/kg dw	0.4	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1221	<0.7		mg/kg dw	0.5	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1232	<0.7		mg/kg dw	0.08	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1242	<0.7		mg/kg dw	0.1	0.7	10/13/2004	kak	839	1908	SW 8082

R - Reporting limit elevated due to matrix interferences

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827081	GW-1	09/27/2004 10:30

PCB-1248	<0.7		mg/kg dw	0.05	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1254	<0.7		mg/kg dw	0.07	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<0.7		mg/kg dw	0.4	0.7	10/13/2004	kak	839	1908	SW 8082
PCB-1268	<0.7		mg/kg dw	0.2	0.7	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	NS	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr.)	64		%	1	1	10/13/2004	kak	839	1908	SW 8082

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
827082	FD-3	09/28/2004 12:00

5 VOC Preservation	Complete					09/28/2004	sml		20	SW 846 - 5035
Amide, mdl	0.463		mg/kg dw	0.12	0.55	10/08/2004	lbb		878	SW 9012
Solids, Total	90.50		%	0.01	0.01	09/29/2004	sas		2772	SM 2540 G
Arsenic, (GFAA) mdl	2.56		mg/kg dw	0.23	1.1	10/01/2004	mrn	915	635	SW 7060A
Mercury, mdl	1.7	B	mg/kg dw	0.0013	0.0048	10/12/2004	heh		2066	SW 7471A
GFAA Metals Digestion	1.018		g			09/30/2004	tdo	915		SW 3050 B
ICP Metals Prep (Solid)	1.024		g			09/30/2004	tdo	1510		SW 3050 B
ICP Metals-Solid mdl		IE								
Barium, (ICP) mdl	2,870		mg/kg dw	0.215	0.55	10/04/2004	llw	1510	2811	SW 6010B
Cadmium, (ICP) mdl	19		mg/kg dw	0.27	0.93	10/04/2004	llw	1510	2817	SW 6010B
Chromium, (ICP) mdl	276		mg/kg dw	0.43	1.1	10/04/2004	llw	1510	2816	SW 6010B
Lead, (ICP) mdl	254		mg/kg dw	5.5	5.5	10/04/2004	llw	1510	2833	SW 6010B

B - This analyte was detected in the method blank.
 IE - Elevated Reporting Limit due to interelement interference.
 N - Spike recovery for this analyte is out of control
 S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827082	SAMPLE DESCRIPTION FD-3					DATE-TIME TAKEN 09/28/2004 12:00				
Selenium, (ICP) mdl	<17		mg/kg dw	8.3	8.3	10/04/2004	llw	1510	2810	SW 6010B
Silver, (ICP) mdl	1.7		mg/kg dw	0.63	1.1	10/04/2004	llw	1510	645	SW 6010B
Prep, BNA-Nonaqueous (MDL)	Complete					09/29/2004	acm	115		SW 3550
Prep, PCB's Non-aqueous	COMPLETE					10/08/2004	acm	839		SW 3540
VOA 8260 NON-AQUEOUS LRL										
Acetone	812	E	ug/kg dw	8.8	27	10/09/2004	mmk		1059	SW 8260B
Benzene	1.59		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
Bromobenzene	<0.77		ug/kg dw	0.77	2.32	10/09/2004	mmk		1059	SW 8260B
Bromochloromethane	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
Bromodichloromethane	<2.49		ug/kg dw	2.49	7.46	10/09/2004	mmk		1059	SW 8260B
Bromoform	<3.70		ug/kg dw	3.70	11.0	10/09/2004	mmk		1059	SW 8260B
Bromomethane	<5.41		ug/kg dw	5.41	16.0	10/09/2004	mmk		1059	SW 8260B
Methyl ethyl ketone (MEK)	25.0		ug/kg dw	0.94	2.21	10/09/2004	mmk		1059	SW 8260B
n-Butylbenzene	<5.5		ug/kg dw	0.52	5.5	10/09/2004	mmk		1059	SW 8260B
sec-Butylbenzene	<5.5		ug/kg dw	1.60	5.5	10/09/2004	mmk		1059	SW 8260B
tert-Butylbenzene	<5.5		ug/kg dw	0.6	5.5	10/09/2004	mmk		1059	SW 8260B
Carbon tetrachloride	<6.6		ug/kg dw	6.6	19.9	10/09/2004	mmk		1059	SW 8260B
Chlorobenzene	<0.470		ug/kg dw	0.470	1.409	10/09/2004	mmk		1059	SW 8260B
Chlorodibromomethane	<1.55		ug/kg dw	1.55	4.64	10/09/2004	mmk		1059	SW 8260B
Chloroethane	8.91		ug/kg dw	0.77	2.32	10/09/2004	mmk		1059	SW 8260B
Chloroform	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
Chloromethane	<0.6		ug/kg dw	0.6	1.7	10/09/2004	mmk		1059	SW 8260B
2-Chlorotoluene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mmk		1059	SW 8260B
4-Chlorotoluene	<0.61		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromo-3-chloropropane	<11		ug/kg dw	11	33	10/09/2004	mmk		1059	SW 8260B
1,2-Dibromoethane (EDB)	<3.26		ug/kg dw	3.26	9.78	10/09/2004	mmk		1059	SW 8260B

E - Estimated concentration for this analyte

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
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SAMPLE NO.	SAMPLE DESCRIPTION
827082	FD-3

DATE-TIME TAKEN
 09/28/2004 12:00

Dibromomethane	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
1,2-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,3-Dichlorobenzene	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,4-Dichlorobenzene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mmk		1059	SW 8260B
Dichlorodifluoromethane	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethane	<0.88		ug/kg dw	0.88	2.7	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloroethane	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloroethene	<0.370		ug/kg dw	0.370	1.10	10/09/2004	mmk		1059	SW 8260B
cis-1,2-Dichloroethene	<1.0		ug/kg dw	1.0	3.15	10/09/2004	mmk		1059	SW 8260B
trans-1,2-Dichloroethene	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.48		ug/kg dw	0.48	1.43	10/09/2004	mmk		1059	SW 8260B
1,3-Dichloropropane	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
1,1-Dichloropropane	<0.40		ug/kg dw	0.40	1.19	10/09/2004	mmk		1059	SW 8260B
1,2-Dichloropropane	<0.94		ug/kg dw	0.94	2.82	10/09/2004	mmk		1059	SW 8260B
cis-1,3-Dichloropropene	<0.88		ug/kg dw	0.88	2.65	10/09/2004	mmk		1059	SW 8260B
trans-1,3-Dichloropropene	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mmk		1059	SW 8260B
Ethylbenzene	0.94		ug/kg dw	0.61	1.82	10/09/2004	mmk		1059	SW 8260B
Hexachlorobutadiene	<3.20		ug/kg dw	3.20	9.61	10/09/2004	mmk		1059	SW 8260B
2-Hexanone	<0.61		ug/kg dw	0.61	2.21	10/09/2004	mmk		1059	SW 8260B
Isopropylbenzene	<0.40		ug/kg dw	0.40	1.19	10/09/2004	mmk		1059	SW 8260B
p-Isopropyltoluene	<0.6		ug/kg dw	0.6	1.7	10/09/2004	mmk		1059	SW 8260B
Methylene chloride	<55		ug/kg dw	7.7	55	10/09/2004	mmk		1059	SW 8260B
Methyl isobutyl ketone	<0.77		ug/kg dw	0.77	2.21	10/09/2004	mmk		1059	SW 8260B
MTBE	<5.25		ug/kg dw	5.25	15.7	10/09/2004	mmk		1059	SW 8260B
Naphthalene	<5.5		ug/kg dw	0.88	5.5	10/09/2004	mmk		1059	SW 8260B
n-Propylbenzene	<5.5		ug/kg dw	0.61	5.5	10/09/2004	mmk		1059	SW 8260B

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827082	SAMPLE DESCRIPTION FD-3					DATE-TIME TAKEN 09/28/2004 12:00				
Styrene	<0.42		ug/kg dw	0.42	1.26	10/09/2004	mnk		1059	SW 8260B
1,1,1,2-Tetrachloroethane	<1.99		ug/kg dw	1.99	5.97	10/09/2004	mnk		1059	SW 8260B
1,1,2,2-Tetrachloroethane	<1.2		ug/kg dw	1.2	3.6	10/09/2004	mnk		1059	SW 8260B
Tetrachloroethene	<0.72		ug/kg dw	0.72	2.15	10/09/2004	mnk		1059	SW 8260B
Toluene	3.59		ug/kg dw	0.77	2.32	10/09/2004	mnk		1059	SW 8260B
1,2,3-Trichlorobenzene	<5.5		ug/kg dw	1.8	5.5	10/09/2004	mnk		1059	SW 8260B
1,2,4-Trichlorobenzene	<5.5		ug/kg dw	0.35	5.5	10/09/2004	mnk		1059	SW 8260B
1,1,1-Trichloroethane	9.78		ug/kg dw	1.16	3.48	10/09/2004	mnk		1059	SW 8260B
1,1,2-Trichloroethane	<1.3		ug/kg dw	1.3	4.0	10/09/2004	mnk		1059	SW 8260B
Trichloroethylene	16.4		ug/kg dw	1.0	3.15	10/09/2004	mnk		1059	SW 8260B
Trichlorofluoromethane	<0.49		ug/kg dw	0.49	1.48	10/09/2004	mnk		1059	SW 8260B
1,2,3-Trichloropropane	<0.99		ug/kg dw	0.99	3.0	10/09/2004	mnk		1059	SW 8260B
1,2,4-Trimethylbenzene	<5.5		ug/kg dw	1.5	5.5	10/09/2004	mnk		1059	SW 8260B
1,3,5-Trimethylbenzene	<5.5		ug/kg dw	2.5	5.5	10/09/2004	mnk		1059	SW 8260B
Vinyl Chloride	<0.83		ug/kg dw	0.83	2.49	10/09/2004	mnk		1059	SW 8260B
Xylenes, Total	<5.5		ug/kg dw	1.8	5.5	10/09/2004	mnk		1059	SW 8260B
4-Bromofluorobenzene (surr)	97		%			10/09/2004	mnk		1059	SW 8260B
Dibromofluoromethane (surr)	100		%			10/09/2004	mnk		1059	SW 8260B
Toluene-d8 (surr)	99		%			10/09/2004	mnk		1059	SW 8260B
BNA Soil 8270 MDL										
Acenaphthene	<0.71		mg/kg dw	0.71	2.09	10/01/2004	ake	115	185	SW 8270C
Acenaphthylene	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
Anthracene	<0.44		mg/kg dw	0.44	1.29	10/01/2004	ake	115	185	SW 8270C
Benzidine	<1.1		mg/kg dw	1.1	3.25	10/01/2004	ake	115	185	SW 8270C
Benzo(a)anthracene	<0.40		mg/kg dw	0.40	1.16	10/01/2004	ake	115	185	SW 8270C
Benzo(b)fluoranthene	<0.40		mg/kg dw	0.40	1.23	10/01/2004	ake	115	185	SW 8270C



ANALYTICAL TESTING CORPORATION 704 ENTERPRISE DRIVE - CEDAR FALLS, IA 50613 - 319-277-2401 - 800-750-2401 - FAX 319-277-2425

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Table with columns: Analyte, Result, Flag, Units, MDL, LOQ, Date Analyzed, Analyst Initials, Prep Batch, Run Batch, Method. Includes sample data for Benzo(k)fluoranthene, Benzo(a)pyrene, etc.

SAMPLE NO. 827082
SAMPLE DESCRIPTION FD-3

DATE-TIME TAKEN 09/28/2004 12:00

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
Di-n-octylphthalate	<0.66		mg/kg dw	0.66	2.0	10/01/2004	ake	115	185	SW 8270C
Fluoranthene	<0.40		mg/kg dw	0.40	1.19	10/01/2004	ake	115	185	SW 8270C
Fluorene	<0.57		mg/kg dw	0.57	1.76	10/01/2004	ake	115	185	SW 8270C
Hexachlorobenzene	<0.31		mg/kg dw	0.31	0.97	10/01/2004	ake	115	185	SW 8270C
Hexachlorocyclopentadiene	<0.64		mg/kg dw	0.64	1.92	10/01/2004	ake	115	185	SW 8270C
Hexachloro-1,3-butadiene	<0.75		mg/kg dw	0.75	2.21	10/01/2004	ake	115	185	SW 8270C
Hexachloroethane	<0.91		mg/kg dw	0.91	2.72	10/01/2004	ake	115	185	SW 8270C
Indeno(1,2,3-cd)pyrene	<0.35		mg/kg dw	0.35	1.0	10/01/2004	ake	115	185	SW 8270C
Isophorone	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
2-Methylnaphthalene	<0.71		mg/kg dw	0.71	2.12	10/01/2004	ake	115	185	SW 8270C
Naphthalene	<0.80		mg/kg dw	0.80	2.43	10/01/2004	ake	115	185	SW 8270C
2-Nitroaniline	<0.77		mg/kg dw	0.77	2.2	10/01/2004	ake	115	185	SW 8270C
3-Nitroaniline	<0.66		mg/kg dw	0.66	1.96	10/01/2004	ake	115	185	SW 8270C
4-Nitroaniline	<0.75		mg/kg dw	0.75	2.30	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene	<0.84		mg/kg dw	0.84	2.52	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodimethylamine	<1.23		mg/kg dw	1.23	3.67	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodiphenylamine	<0.38		mg/kg dw	0.38	1.13	10/01/2004	ake	115	185	SW 8270C
N-Nitrosodi-n-propylamine	<0.93		mg/kg dw	0.93	2.74	10/01/2004	ake	115	185	SW 8270C
Phenanthrene	<0.42		mg/kg dw	0.42	1.26	10/01/2004	ake	115	185	SW 8270C
Pyrene	<0.55		mg/kg dw	0.55	1.7	10/01/2004	ake	115	185	SW 8270C
Pyridine	<1.24		mg/kg dw	1.24	3.71	10/01/2004	ake	115	185	SW 8270C
1,2,4-Trichlorobenzene	<0.80		mg/kg dw	0.80	2.43	10/01/2004	ake	115	185	SW 8270C
Nitrobenzene-d5 (surr)	91		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorobiphenyl (surr)	97		%			10/01/2004	ake	115	185	SW 8270C
Terphenyl-d14 (surr)	103		%			10/01/2004	ake	115	185	SW 8270C
Benzoic Acid	<3.5		mg/kg dw	3.5	11	10/01/2004	ake	115	185	SW 8270C

ANALYTICAL REPORT

Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO.	SAMPLE DESCRIPTION					DATE-TIME TAKEN				
827082	FD-3					09/28/2004 12:00				
4-Chloro-3-methylphenol	<0.80		mg/kg dw	0.80	2.39	10/01/2004	ake	115	185	SW 8270C
2-chlorophenol	<0.95		mg/kg dw	0.95	2.85	10/01/2004	ake	115	185	SW 8270C
2-Methylphenol	<0.86		mg/kg dw	0.86	2.59	10/01/2004	ake	115	185	SW 8270C
4-Methylphenol	<0.88		mg/kg dw	0.88	2.7	10/01/2004	ake	115	185	SW 8270C
Cresols, Total	<1.75		mg/kg dw	1.75	5.24	10/01/2004	ake	115	185	SW 8270C
2,4-Dichlorophenol	<0.82		mg/kg dw	0.82	2.45	10/01/2004	ake	115	185	SW 8270C
2,4-Dimethylphenol	<0.71		mg/kg dw	0.71	2.09	10/01/2004	ake	115	185	SW 8270C
2,4-Dinitrophenol	<0.31		mg/kg dw	0.31	0.93	10/01/2004	ake	115	185	SW 8270C
2-Methyl-4,6-dinitrophenol	<1.16		mg/kg dw	1.16	3.49	10/01/2004	ake	115	185	SW 8270C
2-Nitrophenol	<1.24		mg/kg dw	1.24	3.71	10/01/2004	ake	115	185	SW 8270C
4-Nitrophenol	<0.73		mg/kg dw	0.73	2.19	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trinitrochlorophenol	2.5		mg/kg dw	0.84	2.56	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trinitrophenol	<0.84		mg/kg dw	0.84	2.56	10/01/2004	ake	115	185	SW 8270C
2,4,5-Trichlorophenol	<0.75		mg/kg dw	0.75	2.30	10/01/2004	ake	115	185	SW 8270C
2,4,6-Trichlorophenol	<0.60		mg/kg dw	0.60	1.79	10/01/2004	ake	115	185	SW 8270C
Phenol-d6 (surr)	73		%			10/01/2004	ake	115	185	SW 8270C
2-Fluorophenol (surr)	69		%			10/01/2004	ake	115	185	SW 8270C
Tribromophenol (surr)	86		%			10/01/2004	ake	115	185	SW 8270C
PCB's Non-Aqueous										
PCB-1016	<2.8		mg/kg dw	1.7	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1221	<2.8		mg/kg dw	2.1	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1232	<2.8		mg/kg dw	0.32	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1242	<2.8		mg/kg dw	0.54	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1248	<2.8		mg/kg dw	0.21	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1254	3.43		mg/kg dw	0.28	2.8	10/13/2004	kak	839	1908	SW 8082
PCB-1260	<2.8		mg/kg dw	1.5	2.8	10/13/2004	kak	839	1908	SW 8082

ANALYTICAL REPORT

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Client Project ID: Chamberlain - Waterloo, IA

Analyte	Result	Flag	.Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch	Run Batch	Method
SAMPLE NO. 827082	SAMPLE DESCRIPTION FD-3					DATE-TIME TAKEN 09/28/2004 12:00				
PCB-1268	<2.8		mg/kg dw	0.70	2.8	10/13/2004	kak	839	1908	SW 8082
Decachlorobiphenyl (Surr.)	0	NS	%	1	1	10/13/2004	kak	839	1908	SW 8082
Tetrachlorometaxylene (Surr.)	116		%	1	1	10/13/2004	kak	839	1908	SW 8082

N - Spike recovery for this analyte is out of control

S - Reported value determined by the method of standard additions

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cyanide, Total mdl		1402	247.5	ug/L	263	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	259	105		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	262	106		10/04/2004
Cyanide, Total mdl		1402	247.5	ug/L	261	106		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	130	105		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	129	104		10/04/2004
Cyanide, Total mdl		1402	123.8	ug/L	128	103		10/04/2004
Cyanide, mdl		878	0.2475	mg/kg	0.245	99		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.243	98		10/08/2004
Cyanide, mdl		878	0.2475	mg/kg	0.247	100		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.121	98		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.120	97		10/08/2004
Cyanide, mdl		878	0.12375	mg/kg	0.119	96		10/08/2004
Dissolved ICP Metals		1702	1.0		1.0	100		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.10	102		10/06/2004
Barium, Diss (ICP) mdl		6426	5.00	mg/L	5.09	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.10	102		10/06/2004
Chromium, Diss (ICP) mdl		6442	5.00	mg/L	5.00	100		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	1.01	101		10/06/2004
Silver, Diss (ICP) mdl		6440	1.000	mg/L	0.9839	98		10/06/2004
Arsenic, (GFAA) LL mdl		75	0.0225	mg/L	0.0215	96		10/01/2004
Arsenic, (GFAA) LL mdl		75	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0223	99		10/01/2004
Arsenic, Diss (GFAA) mdl		52	0.0225	mg/L	0.0228	101		10/01/2004
Cadmium, (GFAA) mdl		59	0.0010	mg/L	0.00098	98		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00109	109		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.0010	mg/L	0.00108	108		10/01/2004
Lead, (GFAA) mdl		98	0.0250	mg/L	0.0269	108		10/04/2004
Lead, (GFAA) mdl		98	0.0250	mg/L	0.0270	108		10/04/2004
Lead, Diss (GFAA) mdl		46	0.0250	mg/L	0.0270	108		10/04/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Lead, Diss (GFAA) mdl		46	0.0250	mg/L	0.0269	108		10/04/2004
Mercury, mdl		2430	1.000	ug/L	1.10	110		10/06/2004
Mercury, diss mdl		800	1.00	ug/L	0.9804	98		10/06/2004
Selenium, Diss (GFAA) mdl		40	0.0250	mg/L	0.02654	106		10/04/2004
Selenium, Diss (GFAA) mdl		40	0.0250	mg/L	0.02634	105		10/04/2004
Selenium, (GFAA) mdl		65	0.0250	mg/L	0.0243	97		10/04/2004
Arsenic, (GFAA) mdl		635	0.0375	mg/L	0.0412	110		10/01/2004
Mercury, mdl		2066	1.00	mg/L	1.05	105		10/12/2004
ICP Metals-Solid mdl								
Barium, (ICP) mdl		2811	5.00	mg/L	5.20	104		10/04/2004
Barium, (ICP) mdl		2811	5.00	mg/L	5.40	108		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.92	98		10/04/2004
Cadmium, (ICP) mdl		2817	5.00	mg/L	4.99	100		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	4.85	97		10/04/2004
Chromium, (ICP) mdl		2816	5.00	mg/L	5.08	102		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.96	99		10/04/2004
Lead, (ICP) mdl		2833	5.00	mg/L	4.98	100		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	4.95	99		10/04/2004
Selenium, (ICP) mdl		2810	5.00	mg/L	5.05	101		10/04/2004
ICP Metals SW-6010B mdl								
Barium, (ICP) mdl		6421	5.00	mg/L	5.01	100		10/04/2004
Barium, (ICP) mdl		6421	5.00	mg/L	5.02	100		10/04/2004
Chromium, (ICP) mdl		6437	5.00	mg/L	4.98	100		10/04/2004
Chromium, (ICP) mdl		6437	5.00	mg/L	4.83	97		10/04/2004
Silver, (ICP) mdl		6435	1.00	mg/L	0.9971	100		10/04/2004
Silver, (ICP) mdl		6435	1.00	mg/L	0.9815	98		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	50.0	ug/L	56.2	112		10/02/2004
Chlorobenzene		5796	50.0	ug/L	51.8	104		10/02/2004
1,1-Dichloroethene		5796	50.0	ug/L	66.0	132		10/02/2004
Ethylbenzene		5796	50.0	ug/L	52.9	106		10/02/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

 Cindy Quast
 HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
MTBE		5796	50.0	ug/L	57.7	115		10/02/2004
1,2,4-Trimethylbenzene		5796	50.0	ug/L	51.0	102		10/02/2004
Toluene		5796	50.0	ug/L	53.8	108		10/02/2004
1,3,5-Trimethylbenzene		5796	50.0	ug/L	51.1	102		10/02/2004
Trichloroethylene		5796	50.0	ug/L	54.0	108		10/02/2004
Xylenes, Total		5796	150.0	ug/L	159	106		10/02/2004
Dibromofluoromethane (surr)		5796	100	%	106	106		10/02/2004
Toluene-d8 (surr)		5796	100	%	97	97		10/02/2004
4-Bromofluorobenzene (surr)		5796	100	%	101	101		10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1059	50.0	ug/L	49.3	99		10/09/2004
Bromoform		1059	50.0	ug/L	53.4	107		10/09/2004
Chlorobenzene		1059	50.0	ug/L	51.4	103		10/09/2004
1,1-Dichloroethane		1059	50.0	ug/L	48.5	97		10/09/2004
1,1-Dichloroethene		1059	50.0	ug/L	49.1	98		10/09/2004
Ethylbenzene		1059	50.0	ug/L	51.7	103		10/09/2004
MTBE		1059	50.0	ug/L	49.6	99		10/09/2004
1,1,2,2-Tetrachloroethane		1059	50.0	ug/L	49.9	100		10/09/2004
Toluene		1059	50.0	ug/L	49.2	98		10/09/2004
Trichloroethylene		1059	50.0	ug/L	51.8	104		10/09/2004
1,2,4-Trimethylbenzene		1059	50.0	ug/L	50.4	101		10/09/2004
1,3,5-Trimethylbenzene		1059	50.0	ug/L	51.7	103		10/09/2004
Vinyl Chloride		1059	50.0	ug/L	45.5	91		10/09/2004
Xylenes, Total		1059	150.0	ug/L	152	101		10/09/2004
4-Bromofluorobenzene (surr)		1059	100	%	104	104		10/09/2004
Dibromofluoromethane (surr)		1059	100	%	98	98		10/09/2004
Toluene-d8 (surr)		1059	100	%	101	101		10/09/2004
BNA Soil 8270 MDL								
Acenaphthene		185	50	ug/L	50	100		09/30/2004
Bis(2-ethylhexyl)phthalate		185	50	ug/L	50	100		09/30/2004
1,4-Dichlorobenzene		185	50	ug/L	49	98		09/30/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2,4-Dinitrotoluene		185	50	ug/L	51	102		09/30/2004
N-Nitrosodi-n-propylamine		185	50	ug/L	50	100		09/30/2004
Pyrene		185	50	ug/L	50	100		09/30/2004
1,2,4-Trichlorobenzene		185	50	ug/L	50	100		09/30/2004
Nitrobenzene-d5 (surr)		185	50.0	%	49.5	99		09/30/2004
2-Fluorobiphenyl (surr)		185	50.0	%	50.1	100		09/30/2004
Terphenyl-d14 (surr)		185	50.0	%	49.3	99		09/30/2004
4-Chloro-3-methylphenol		185	50	ug/L	50	100		09/30/2004
2-chlorophenol		185	50	ug/L	49	98		09/30/2004
4-Nitrophenol		185	50	ug/L	50	100		09/30/2004
Pentachlorophenol		185	50	ug/L	43	86		09/30/2004
Phenol		185	50	ug/L	50	100		09/30/2004
Phenol-d6 (surr)		185	100	%	50	50		09/30/2004
2-Fluorophenol (surr)		185	100	%	49	49		09/30/2004
Tribromophenol (surr)		185	100	%	49	49		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene		851	60.00	ug/L	59.4	99		10/07/2004
1,4-Dichlorobenzene		851	60.00	ug/L	58.1	97		10/07/2004
2,4-Dinitrotoluene		851	60.00	ug/L	66.2	110		10/07/2004
N-Nitrosodi-n-propylamine		851	60.00	ug/L	57.3	96		10/07/2004
Pyrene		851	60.00	ug/L	58.3	97		10/07/2004
1,2,4-Trichlorobenzene		851	60.00	ug/L	58.3	97		10/07/2004
Nitrobenzene-d5 (surr)		851	60.00	ug/L	63.0	105		10/07/2004
2-Fluorobiphenyl (surr)		851	60.00	ug/L	59.6	99		10/07/2004
Terphenyl-d14 (surr)		851	60.00	ug/L	59.3	99		10/07/2004
4-Chloro-3-methylphenol		851	60.00	ug/L	61.4	102		10/07/2004
2-chlorophenol		851	60.00	ug/L	59.6	99		10/07/2004
4-Nitrophenol		851	60.00	ug/L	67.9	113		10/07/2004
Pentachlorophenol		851	60.00	ug/L	64.5	108		10/07/2004
Phenol		851	60.00	ug/L	59.1	98		10/07/2004
Phenol-d6 (surr)		851	120.0	ug/L	120	100		10/07/2004

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
2-Fluorophenol (surr)		851	120.0	ug/L	118	98		10/07/2004
Tribromophenol (surr)		851	120.0	ug/L	133	111		10/07/2004
PCB's Non-Aqueous								
PCB-1254		1908	0.96	ppm	0.88	92		10/13/2004
Decachlorobiphenyl (Surr.)		1908	100	%	104	104		10/13/2004
Tetrachlorometaxylene (Surr.)		1908	100	%	104	104		10/13/2004
PCB's Non-Aqueous								
PCB-1254		1908	0.96	ppm	0.91	95		10/13/2004
Decachlorobiphenyl (Surr.)		1908	100	%	105	105		10/13/2004
Tetrachlorometaxylene (Surr.)		1908	100	%	111	111		10/13/2004
PCB's Non-Aqueous								
PCB-1248		1909	0.96	ppm	0.88	92		10/13/2004
Decachlorobiphenyl (Surr.)		1909	100	%	112	112		10/13/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	113	113		10/13/2004
PCB's Non-Aqueous								
PCB-1254		1909	0.96	ppm	0.91	95		10/13/2004
Decachlorobiphenyl (Surr.)		1909	100	%	105	105		10/13/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	111	111		10/13/2004
PCB's Non-Aqueous								
PCB-1248		1909	0.96	ppm	0.85	88		10/14/2004
Decachlorobiphenyl (Surr.)		1909	100	%	103	103		10/14/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	112	112		10/14/2004
PCB's Non-Aqueous								
PCB-1254		1909	0.96	ppm	0.95	99		10/14/2004
Decachlorobiphenyl (Surr.)		1909	100	%	105	105		10/14/2004
Tetrachlorometaxylene (Surr.)		1909	100	%	110	110		10/14/2004
PCBs Wisconsin Aqueous								
PCB-1248		650	0.64	ppm	0.61	95		10/06/2004
Decachlorobiphenyl (Surr.)		650	100	%	95	95		10/06/2004
Tetrachlorometaxylene (Surr.)		650	100	%	95	95		10/06/2004
PCBs Wisconsin Aqueous								

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QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
PCB-1248		650	0.96	ppm	0.96	100		10/07/2004
Decachlorobiphenyl (Surr.)		650	100	%	107	107		10/07/2004
Tetrachlorometaxylene (Surr.)		650	100	%	99	99		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248		651	0.64	ppm	0.62	97		10/07/2004
Decachlorobiphenyl (Surr.)		651	100	%	105	105		10/07/2004
Tetrachlorometaxylene (Surr.)		651	100	%	95	95		10/07/2004
PCBs Wisconsin Aqueous								
PCB-1248		651	0.64	ppm	0.62	97		10/08/2004
Decachlorobiphenyl (Surr.)		651	100	%	86	86		10/08/2004
Tetrachlorometaxylene (Surr.)		651	100	%	96	96		10/08/2004

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QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Cyanide, Total mdl		1402	<0.0022		mg/L	0.0022	0.0078	10/04/2004
Dissolved ICP Metals		1702	COMPLETE					10/06/2004
Barium, Diss (ICP) mdl		6426	<0.0013		mg/L	0.0013	0.0047	10/06/2004
Chromium, Diss (ICP) mdl		6442	<0.0026		mg/L	0.0026	0.0092	10/06/2004
Silver, Diss (ICP) mdl		6440	<0.0038		mg/L	0.0038	0.0136	10/06/2004
Arsenic, (GFAA) LL mdl	3029	75	<0.00040		mg/L	0.00040	0.0014	10/01/2004
Arsenic, Diss (GFAA) mdl		52	<0.00036		mg/L	0.00036	0.0013	10/01/2004
Cadmium, (GFAA) mdl	3029	59	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Cadmium, Diss (GFAA) mdl		40	<0.00014		mg/L	0.00014	0.00050	10/01/2004
Lead, (GFAA) mdl	3029	98	<0.00050		mg/L	0.00050	0.0018	10/04/2004
Lead, Diss (GFAA) mdl		46	<0.00050		mg/L	0.00050	0.0018	10/04/2004
Mercury, mdl		2430	0.037	B	ug/L	0.017	0.061	10/06/2004
Mercury, diss mdl		800	0.037	B	ug/L	0.017	0.061	10/06/2004
Selenium, Diss (GFAA) mdl		40	<0.0015		mg/L	0.0015	0.0053	10/04/2004
Selenium, (GFAA) mdl	3029	65	0.0023	B	mg/L	0.0015	0.0053	10/04/2004
Arsenic, (GFAA) mdl	915	635	<0.0021		mg/L	0.21	1.0	10/01/2004
Mercury, mdl		2066	0.0028	B	mg/kg	0.0012	0.0043	10/12/2004
Barium, (ICP) mdl	1510	2811	<0.0039		mg/L	0.195	0.50	10/04/2004
Cadmium, (ICP) mdl	1510	2817	<0.0048		mg/L	0.24	0.84	10/04/2004
Chromium, (ICP) mdl	1510	2816	<0.0078		mg/L	0.39	1.0	10/04/2004
Lead, (ICP) mdl	1510	2833	<0.10		mg/L	5.0	5.0	10/04/2004
Selenium, (ICP) mdl	1510	2810	<0.15		mg/L	7.5	7.5	10/04/2004
Silver, (ICP) mdl	1510	645	<0.0114		mg/L	0.57	1.0	10/04/2004
Barium, (ICP) mdl	4078	6421	<0.0013		mg/L	0.0013	0.0047	10/04/2004
Chromium, (ICP) mdl	4078	6437	0.0052		mg/L	0.0026	0.0092	10/04/2004
Silver, (ICP) mdl	4078	6435	<0.0038		mg/L	0.0038	0.0136	10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Bromodichloromethane		5796	<0.46		ug/L	0.46	1.4	10/02/2004
Bromoform		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Bromomethane		5796	<0.62		ug/L	0.62	1.9	10/02/2004
Bromobenzene		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Carbon disulfide		5796	<0.25		ug/L	0.25	0.75	10/02/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
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Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bromochloromethane		5796	<0.40		ug/L	0.40	1.2	10/02/2004
Carbon tetrachloride		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Dibromomethane		5796	<0.44		ug/L	0.44	1.3	10/02/2004
Chlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
n-Butylbenzene		5796	0.54	B	ug/L	0.13	0.39	10/02/2004
sec-Butylbenzene		5796	0.31	B	ug/L	0.16	0.48	10/02/2004
tert-Butylbenzene		5796	0.33	B	ug/L	0.25	0.75	10/02/2004
Chloroethane		5796	<0.12		ug/L	0.12	0.36	10/02/2004
Chloroform		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Chloromethane		5796	<0.24		ug/L	0.24	0.72	10/02/2004
2-Chlorotoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
4-Chlorotoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Chlorodibromomethane		5796	<0.42		ug/L	0.42	1.3	10/02/2004
1,2-Dibromo-3-chloropropane		5796	<0.30		ug/L	0.30	0.90	10/02/2004
1,2-Dibromoethane (EDB)		5796	<0.42		ug/L	0.42	1.3	10/02/2004
1,2-Dichlorobenzene		5796	0.29	B	ug/L	0.25	0.75	10/02/2004
1,3-Dichlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,4-Dichlorobenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Dichlorodifluoromethane		5796	<0.40		ug/L	0.4	1.2	10/02/2004
1,1-Dichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,2-Dichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Di-Isopropylether		5796	<0.32		ug/L	0.32	0.96	10/02/2004
1,3-Dichloropropane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
2,2-Dichloropropane		5796	<0.73		ug/L	0.73	2.2	10/02/2004
1,1-Dichloropropene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,1-Dichloroethene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
trans-1,2-Dichloroethene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
cis-1,2-Dichloroethene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
1,2-Dichloropropane		5796	<0.12		ug/L	0.12	0.36	10/02/2004
cis-1,3-Dichloropropene		5796	<0.43		ug/L	0.43	1.2	10/02/2004
trans-1,3-Dichloropropene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
Hexachlorobutadiene		5796	1.78	B	ug/L	0.22	0.66	10/02/2004
Ethylbenzene		5796	<0.43		ug/L	0.43	1.3	10/02/2004

QUALITY CONTROL REPORT BLANKS

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10/19/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Isopropylbenzene		5796	<0.44		ug/L	0.44	1.3	10/02/2004
p-Isopropyltoluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Hexane		5796	<0.18		ug/L	0.18	0.54	10/02/2004
MTBE		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Methylene chloride		5796	<0.63		ug/L	0.63	1.9	10/02/2004
Napthalene		5796	3.43	B	ug/L	0.86	2.6	10/02/2004
n-Propylbenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Styrene		5796	<0.41		ug/L	0.41	1.2	10/02/2004
1,1,1,2-Tetrachloroethane		5796	<0.40		ug/L	0.40	1.2	10/02/2004
1,1,2,2-Tetrachloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,2,3-Trichlorobenzene		5796	4.05	B	ug/L	0.40	1.2	10/02/2004
1,2,4-Trichlorobenzene		5796	2.10	B	ug/L	0.25	0.75	10/02/2004
Tetrachloroethene		5796	<0.37		ug/L	0.37	1.1	10/02/2004
1,2,3-Trichloropropane		5796	<0.49		ug/L	0.49	1.5	10/02/2004
1,2,4-Trimethylbenzene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
Toluene		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,3,5-Trimethylbenzene		5796	0.17	B	ug/L	0.14	0.42	10/02/2004
1,1,1-Trichloroethane		5796	<0.25		ug/L	0.25	0.75	10/02/2004
1,1,2-Trichloroethane		5796	<0.10		ug/L	0.10	0.3	10/02/2004
Trichloroethylene		5796	<0.43		ug/L	0.43	1.3	10/02/2004
Trichlorofluoromethane		5796	<0.47		ug/L	0.47	1.4	10/02/2004
Vinyl chloride		5796	<0.47		ug/L	0.47	1.4	10/02/2004
Xylenes, Total		5796	<0.38		ug/L	0.38	1.1	10/02/2004
Dibromofluoromethane (surr)		5796	116.0		%			10/02/2004
Toluene-d8 (surr)		5796	88.0		%			10/02/2004
4-Bromofluorobenzene (surr)		5796	88.0		%			10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Acetone		1059	<8.0		ug/kg	8.0	24	10/09/2004
Benzene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
Bromobenzene		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
Bromochloromethane		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
Bromodichloromethane		1059	<2.25		ug/kg	2.25	6.75	10/09/2004
Bromoform		1059	<3.35		ug/kg	3.35	10.0	10/09/2004

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Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Bromomethane		1059	<4.90		ug/kg	4.90	14.5	10/09/2004
Methyl ethyl ketone (MEK)		1059	<0.85		ug/kg	0.85	2.00	10/09/2004
n-Butylbenzene		1059	<5.0		ug/kg	0.47	5.0	10/09/2004
sec-Butylbenzene		1059	<5.0		ug/kg	1.45	5.0	10/09/2004
tert-Butylbenzene		1059	<5.0		ug/kg	0.5	5.0	10/09/2004
Carbon tetrachloride		1059	<6.0		ug/kg	6.0	18.0	10/09/2004
Chlorobenzene		1059	<0.425		ug/kg	0.425	1.275	10/09/2004
Chlorodibromomethane		1059	<1.40		ug/kg	1.40	4.20	10/09/2004
Chloroethane		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
Chloroform		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
Chloromethane		1059	<0.5		ug/kg	0.5	1.5	10/09/2004
2-Chlorotoluene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
4-Chlorotoluene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
1,2-Dibromo-3-chloropropane		1059	<10		ug/kg	10	30	10/09/2004
1,2-Dibromoethane (EDB)		1059	<2.95		ug/kg	2.95	8.85	10/09/2004
Dibromomethane		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
1,2-Dichlorobenzene		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,3-Dichlorobenzene		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,4-Dichlorobenzene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
Dichlorodifluoromethane		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
1,1-Dichloroethane		1059	<0.80		ug/kg	0.80	2.4	10/09/2004
1,2-Dichloroethane		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
1,1-Dichloroethene		1059	<0.335		ug/kg	0.335	1.00	10/09/2004
cis-1,2-Dichloroethene		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
trans-1,2-Dichloroethene		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
1,2-Dichloropropane		1059	<0.43		ug/kg	0.43	1.29	10/09/2004
1,3-Dichloropropane		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
2,2-Dichloropropane		1059	<0.36		ug/kg	0.36	1.08	10/09/2004
1,1-Dichloropropene		1059	<0.85		ug/kg	0.85	2.55	10/09/2004
cis-1,3-Dichloropropene		1059	<0.80		ug/kg	0.80	2.40	10/09/2004
trans-1,3-Dichloropropene		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
Ethylbenzene		1059	<0.55		ug/kg	0.55	1.65	10/09/2004
Hexachlorobutadiene		1059	<2.90		ug/kg	2.90	8.70	10/09/2004

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ANALYTICAL TESTING CORPORATION

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QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
2-Hexanone		1059	<0.55		ug/kg	0.55	2.00	10/09/2004
Isopropylbenzene		1059	<0.36		ug/kg	0.36	1.08	10/09/2004
p-Isopropyltoluene		1059	<0.5		ug/kg	0.5	1.5	10/09/2004
Methylene chloride		1059	<50		ug/kg	7.0	50	10/09/2004
Methyl isobutyl ketone		1059	<0.70		ug/kg	0.70	2.00	10/09/2004
MTBE		1059	<4.75		ug/kg	4.75	14.2	10/09/2004
Naphthalene		1059	<5.0		ug/kg	0.80	5.0	10/09/2004
n-Propylbenzene		1059	<5.0		ug/kg	0.55	5.0	10/09/2004
Styrene		1059	<0.38		ug/kg	0.38	1.14	10/09/2004
1,1,1,2-Tetrachloroethane		1059	<1.80		ug/kg	1.80	5.40	10/09/2004
1,1,2,2-Tetrachloroethane		1059	<1.1		ug/kg	1.1	3.3	10/09/2004
Tetrachloroethene		1059	<0.65		ug/kg	0.65	1.95	10/09/2004
Toluene		1059	<0.70		ug/kg	0.70	2.10	10/09/2004
1,2,3-Trichlorobenzene		1059	<5.0		ug/kg	1.6	5.0	10/09/2004
1,2,4-Trichlorobenzene		1059	<5.0		ug/kg	0.32	5.0	10/09/2004
1,1,1-Trichloroethane		1059	<1.05		ug/kg	1.05	3.15	10/09/2004
1,1,2-Trichloroethane		1059	<1.2		ug/kg	1.2	3.6	10/09/2004
Trichloroethylene		1059	<0.95		ug/kg	0.95	2.85	10/09/2004
Trichlorofluoromethane		1059	<0.44		ug/kg	0.44	1.34	10/09/2004
1,2,3-Trichloropropane		1059	<0.90		ug/kg	0.90	2.7	10/09/2004
1,2,4-Trimethylbenzene		1059	<5.0		ug/kg	1.4	5.0	10/09/2004
1,3,5-Trimethylbenzene		1059	<5.0		ug/kg	2.3	5.0	10/09/2004
Vinyl Chloride		1059	<0.75		ug/kg	0.75	2.25	10/09/2004
Xylenes, Total		1059	<5.0		ug/kg	1.6	5.0	10/09/2004
4-Bromofluorobenzene (surr)		1059	100		%			10/09/2004
Dibromofluoromethane (surr)		1059	102		%			10/09/2004
Toluene-d8 (surr)		1059	97		%			10/09/2004
BNA Soil 8270 MDL								
Acenaphthene	115	185	<0.063		mg/kg	0.063	0.189	09/30/2004
Acenaphthylene	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
Anthracene	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
Benzidine	115	185	<0.098		mg/kg	0.098	0.294	09/30/2004
Benzo(a)anthracene	115	185	<0.035		mg/kg	0.035	0.105	09/30/2004

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Benzo(b)fluoranthene	115	185	<0.037		mg/kg	0.037	0.111	09/30/2004
Benzo(k)fluoranthene	115	185	<0.049		mg/kg	0.049	0.147	09/30/2004
Benzo(a)pyrene	115	185	<0.049		mg/kg	0.049	0.147	09/30/2004
Benzo(ghi)perylene	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
Benzyl alcohol	115	185	<0.081		mg/kg	0.081	0.243	09/30/2004
Benzyl butyl phthalate	115	185	<0.043		mg/kg	0.043	0.129	09/30/2004
Bis(2-chloroethyl)ether	115	185	<0.078		mg/kg	0.078	0.234	09/30/2004
Bis(2-chloroethoxy)methane	115	185	<0.074		mg/kg	0.074	0.222	09/30/2004
Bis(2-ethylhexyl)phthalate	115	185	<0.032		mg/kg	0.032	0.096	09/30/2004
Bis(2chloroisopropyl)ether	115	185	<0.086		mg/kg	0.086	0.258	09/30/2004
4-Bromophenyl phenyl ether	115	185	<0.048		mg/kg	0.048	0.144	09/30/2004
Carbazole	115	185	<0.039		mg/kg	0.039	0.117	09/30/2004
4-Chloroaniline	115	185	<0.104		mg/kg	0.104	0.312	09/30/2004
2-Chloronaphthalene	115	185	<0.070		mg/kg	0.070	0.21	09/30/2004
4-Chlorophenylphenyl ether	115	185	<0.055		mg/kg	0.055	0.165	09/30/2004
Chrysene	115	185	<0.030		mg/kg	0.030	0.090	09/30/2004
Dibenzo(a,h)anthracene	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
Dibenzofuran	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
Di-n-butylphthalate	115	185	<0.043		mg/kg	0.043	0.129	09/30/2004
1,2-Dichlorobenzene	115	185	<0.103		mg/kg	0.103	0.309	09/30/2004
1,3-Dichlorobenzene	115	185	<0.092		mg/kg	0.092	0.276	09/30/2004
1,4-Dichlorobenzene	115	185	<0.085		mg/kg	0.085	0.255	09/30/2004
3,3-Dichlorobenzidine	115	185	<0.107		mg/kg	0.107	0.321	09/30/2004
Diethyl phthalate	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
2,4-Dinitrotoluene	115	185	<0.047		mg/kg	0.047	0.141	09/30/2004
2,6-Dinitrotoluene	115	185	<0.066		mg/kg	0.066	0.198	09/30/2004
Di-n-octylphthalate	115	185	<0.060		mg/kg	0.060	0.18	09/30/2004
Fluorene	115	185	<0.053		mg/kg	0.053	0.159	09/30/2004
Hexachlorobenzene	115	185	<0.029		mg/kg	0.029	0.087	09/30/2004
Hexachlorocyclopentadiene	115	185	<0.058		mg/kg	0.058	0.174	09/30/2004
Hexachloro-1,3-butadiene	115	185	<0.067		mg/kg	0.067	0.201	09/30/2004
Hexachloroethane	115	185	<0.082		mg/kg	0.082	0.246	09/30/2004
Indeno(1,2,3-cd)pyrene	115	185	<0.031		mg/kg	0.031	0.093	09/30/2004

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Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Isophorone	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
2-Methylnaphthalene	115	185	<0.064		mg/kg	0.064	0.192	09/30/2004
Naphthalene	115	185	<0.073		mg/kg	0.073	0.219	09/30/2004
2-Nitroaniline	115	185	<0.070		mg/kg	0.070	0.21	09/30/2004
3-Nitroaniline	115	185	<0.059		mg/kg	0.059	0.177	09/30/2004
4-Nitroaniline	115	185	<0.069		mg/kg	0.069	0.207	09/30/2004
Nitrobenzene	115	185	<0.076		mg/kg	0.076	0.228	09/30/2004
N-Nitrosodimethylamine	115	185	<0.111		mg/kg	0.111	0.333	09/30/2004
N-Nitrosodiphenylamine	115	185	<0.034		mg/kg	0.034	0.102	09/30/2004
N-Nitrosodi-n-propylamine	115	185	<0.083		mg/kg	0.083	0.249	09/30/2004
Phenanthrene	115	185	<0.038		mg/kg	0.038	0.114	09/30/2004
Pyrene	115	185	<0.050		mg/kg	0.050	0.15	09/30/2004
Pyridine	115	185	<0.112		mg/kg	0.112	0.336	09/30/2004
1,2,4-Trichlorobenzene	115	185	<0.073		mg/kg	0.073	0.219	09/30/2004
Nitrobenzene-d5 (surr)	115	185	86.7		%			09/30/2004
2-Fluorobiphenyl (surr)	115	185	83.9		%			09/30/2004
Terphenyl-d14 (surr)	115	185	108.0		%			09/30/2004
Benzoic Acid	115	185	<0.33		mg/kg	0.33	0.99	09/30/2004
4-Chloro-3-methylphenol	115	185	<0.072		mg/kg	0.072	0.216	09/30/2004
2-chlorophenol	115	185	<0.086		mg/kg	0.086	0.258	09/30/2004
2-Methylphenol	115	185	<0.078		mg/kg	0.078	0.234	09/30/2004
4-Methylphenol	115	185	<0.080		mg/kg	0.080	0.24	09/30/2004
Cresols, Total	115	185	<0.158		mg/kg	0.158	0.474	09/30/2004
2,4-Dichlorophenol	115	185	<0.074		mg/kg	0.074	0.222	09/30/2004
2,4-Dimethylphenol	115	185	<0.063		mg/kg	0.063	0.189	09/30/2004
2,4-Dinitrophenol	115	185	<0.028		mg/kg	0.028	0.084	09/30/2004
2-Methyl-4,6-dinitrophenol	115	185	<0.105		mg/kg	0.105	0.315	09/30/2004
2-Nitrophenol	115	185	<0.112		mg/kg	0.112	0.336	09/30/2004
4-Nitrophenol	115	185	<0.066		mg/kg	0.066	0.198	09/30/2004
Pentachlorophenol	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
Phenol	115	185	<0.077		mg/kg	0.077	0.231	09/30/2004
2,4,5-Trichlorophenol	115	185	<0.069		mg/kg	0.069	0.207	09/30/2004
2,4,6-Trichlorophenol	115	185	<0.054		mg/kg	0.054	0.162	09/30/2004

QUALITY CONTROL REPORT BLANKS

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Phenol-d6 (surr)	115	185	82.9		%			09/30/2004
2-Fluorophenol (surr)	115	185	81.8		%			09/30/2004
Tribromophenol (surr)	115	185	87.4		%			09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	448	850	<2.9		ug/L	2.9	8.7	10/06/2004
Acenaphthylene	448	850	<2.52		ug/L	2.52	7.56	10/06/2004
Anthracene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
Benzidine	448	850	<2.15		ug/L	2.15	6.45	10/06/2004
Benzo(a)anthracene	448	850	<2.72		ug/L	2.72	8.16	10/06/2004
Benzo(b)fluoranthene	448	850	<2.57		ug/L	2.57	7.71	10/06/2004
Benzo(k)fluoranthene	448	850	<2.6		ug/L	2.6	7.8	10/06/2004
Benzo(a)pyrene	448	850	<2.47		ug/L	2.47	7.41	10/06/2004
Benzo(ghi)perylene	448	850	<2.78		ug/L	2.78	8.34	10/06/2004
Benzyl Alcohol	448	850	<2.5		ug/L	2.5	7.5	10/06/2004
Benzyl butyl phthalate	448	850	<2.73		ug/L	2.73	8.19	10/06/2004
Bis(2-chloroethyl)ether	448	850	<2.17		ug/L	2.17	6.51	10/06/2004
Bis(2-chloroethoxy)methane	448	850	<2.33		ug/L	2.33	6.99	10/06/2004
Bis(2-ethylhexyl)phthalate	448	850	<3.05		ug/L	3.05	9.15	10/06/2004
Bis(2chloroisopropyl)ether	448	850	<2.19		ug/L	2.19	6.57	10/06/2004
4-Bromophenyl phenyl ether	448	850	<3.27		ug/L	3.27	9.81	10/06/2004
4-Chloroaniline	448	850	<1.69		ug/L	1.69	5.07	10/06/2004
2-Chloronaphthalene	448	850	<2.32		ug/L	2.32	6.96	10/06/2004
4-Chlorophenylphenyl ether	448	850	<2.58		ug/L	2.58	7.74	10/06/2004
Chrysene	448	850	<2.67		ug/L	2.67	8.01	10/06/2004
Dibenzo(a,h)anthracene	448	850	<2.73		ug/L	2.73	8.19	10/06/2004
Dibenzofuran	448	850	<1.97		ug/L	1.97	5.91	10/06/2004
Di-n-butylphthalate	448	850	<2.49		ug/L	2.49	7.47	10/06/2004
1,2-Dichlorobenzene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
1,3-Dichlorobenzene	448	850	<2.09		ug/L	2.09	6.27	10/06/2004
1,4-Dichlorobenzene	448	850	<2.1		ug/L	2.1	6.3	10/06/2004
3,3-Dichlorobenzidine	448	850	<1.55		ug/L	1.55	4.65	10/06/2004
Diethyl phthalate	448	850	<2.49		ug/L	2.49	7.47	10/06/2004
1,2-Diphenylhydrazine	448	850	<2.36		ug/L	2.36	7.08	10/06/2004

QUALITY CONTROL REPORT
BLANKS

Cindy Quast
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8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dimethyl phthalate	448	850	<2.58		ug/L	2.58	7.74	10/06/2004
2,4-Dinitrotoluene	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
2,6-Dinitrotoluene	448	850	<1.55		ug/L	1.55	4.65	10/06/2004
Di-n-octylphthalate	448	850	<2.82		ug/L	2.82	8.46	10/06/2004
Fluoranthene	448	850	<2.08		ug/L	2.08	6.24	10/06/2004
Fluorene	448	850	<2.13		ug/L	2.13	6.39	10/06/2004
Hexachlorobenzene	448	850	<2.15		ug/L	2.15	6.45	10/06/2004
Hexachloro-1,3-butadiene	448	850	<2.41		ug/L	2.41	7.23	10/06/2004
Hexachlorocyclopentadiene	448	850	<1.78		ug/L	1.78	5.34	10/06/2004
Hexachloroethane	448	850	<1.94		ug/L	1.94	5.82	10/06/2004
Indeno(1,2,3-cd)pyrene	448	850	<2.6		ug/L	2.6	7.8	10/06/2004
Isophorone	448	850	<2.37		ug/L	2.37	7.11	10/06/2004
2-Methylnapthalene	448	850	<2.23		ug/L	2.23	6.69	10/06/2004
Naphthalene	448	850	<2.68		ug/L	2.68	8.04	10/06/2004
2-Nitroaniline	448	850	<2.25		ug/L	2.25	6.75	10/06/2004
3-Nitroaniline	448	850	<1.84		ug/L	1.84	5.52	10/06/2004
4-Nitroaniline	448	850	<1.36		ug/L	1.36	4.08	10/06/2004
Nitrobenzene	448	850	<2.04		ug/L	2.04	6.12	10/06/2004
N-Nitrosodimethylamine	448	850	<2.01		ug/L	2.01	6.03	10/06/2004
N-Nitrosodiphenylamine	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
N-Nitrosodi-n-propylamine	448	850	<2.44		ug/L	2.44	7.32	10/06/2004
N-Nitrosodi-n-butylamine	448	850	<2.76		ug/L	2.76	8.28	10/06/2004
N-Nitrosodiethylamine	448	850	<1.71		ug/L	1.71	5.13	10/06/2004
Phenanthrene	448	850	<2.56		ug/L	2.56	7.68	10/06/2004
N-Nitrosopyrrolidine	448	850	<2.55		ug/L	2.55	7.65	10/06/2004
Pentachlorobenzene	448	850	<1.51		ug/L	1.51	4.53	10/06/2004
Pyrene	448	850	<2.8		ug/L	2.8	8.4	10/06/2004
Pyridine	448	850	<1.36		ug/L	1.36	4.08	10/06/2004
1,2,4,5-Tetrachlorobenzene	448	850	<2.46		ug/L	2.46	7.38	10/06/2004
1,2,4-Trichlorobenzene	448	850	<2.33		ug/L	2.33	6.99	10/06/2004
Nitrobenzene-d5 (surr)	448	850	67.0		%	100	100	10/06/2004
2-Fluorobiphenyl (surr)	448	850	67.0		%	100	100	10/06/2004
Terphenyl-d14 (surr)	448	850	91.0		%	100	100	10/06/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Benzoic Acid	448	850	<10.0		ug/L	10.0	30.0	10/06/2004
4-Chloro-3-methylphenol	448	850	<2.7		ug/L	2.7	8.1	10/06/2004
2-chlorophenol	448	850	<2.48		ug/L	2.48	7.44	10/06/2004
Cresols, Total	448	850	<4.42		ug/L	4.42	13.3	10/06/2004
2,4-Dichlorophenol	448	850	<2.66		ug/L	2.66	7.98	10/06/2004
2,4-Dimethylphenol	448	850	<1.49		ug/L	1.49	4.47	10/06/2004
2,4-Dinitrophenol	448	850	<2.59		ug/L	2.59	7.77	10/06/2004
2-Methyl-4,6-dinitrophenol	448	850	<2.98		ug/L	2.98	8.94	10/06/2004
2-Nitrophenol	448	850	<2.76		ug/L	2.76	8.28	10/06/2004
4-Nitrophenol	448	850	<1.8		ug/L	1.8	5.4	10/06/2004
2,5-Dinitrophenol	448	850	<4.21		ug/L	4.21	12.6	10/06/2004
Pentachlorophenol	448	850	<2.78		ug/L	2.78	8.34	10/06/2004
Phenol	448	850	<1.72		ug/L	1.72	5.16	10/06/2004
2,4,5-Trichlorophenol	448	850	<3.22		ug/L	3.22	9.66	10/06/2004
2,4,6-Trichlorophenol	448	850	<3.66		ug/L	3.66	11.0	10/06/2004
Phenol-d6 (surr)	448	850	29.0		%	100	100	10/06/2004
2-Fluorophenol (surr)	448	850	45.0		%	100	100	10/06/2004
Tribromophenol (surr)	448	850	107.0		%	100	100	10/06/2004
PCB's Non-Aqueous								
PCB-1016	839	1909	<0.25		mg/kg	0.15	0.25	10/13/2004
PCB-1221	839	1909	<0.25		mg/kg	0.19	0.25	10/13/2004
PCB-1232	839	1909	<0.25		mg/kg	0.029	0.25	10/13/2004
PCB-1242	839	1909	<0.25		mg/kg	0.049	0.25	10/13/2004
PCB-1248	839	1909	<0.25		mg/kg	0.019	0.25	10/13/2004
PCB-1254	839	1909	<0.25		mg/kg	0.025	0.25	10/13/2004
PCB-1260	839	1909	<0.25		mg/kg	0.14	0.25	10/13/2004
PCB-1268	839	1909	<0.25		mg/kg	0.063	0.25	10/13/2004
Decachlorobiphenyl (Surr.)	839	1909	0	NS	%	1	1	10/13/2004
Tetrachlorometaxylene (Surr.)	839	1909	82		%	1	1	10/13/2004
PCBs Wisconsin Aqueous								
PCB 1016	237	650	<0.10		ug/L	0.10	0.30	10/06/2004
PCB-1242	237	650	<0.085		ug/L	0.085	0.26	10/06/2004
PCB-1221	237	650	<0.49		ug/L	0.49	1.5	10/06/2004

QUALITY CONTROL REPORT BLANKS

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Cedar Rapids, IA 52404

10/19/2004

TestAmerica Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
PCB-1232	237	650	<0.027		ug/L	0.027	0.081	10/06/2004
PCB-1248	237	650	<0.065		ug/L	0.065	0.20	10/06/2004
PCB-1254	237	650	<0.098		ug/L	0.098	0.29	10/06/2004
PCB-1260	237	650	<0.091		ug/L	0.091	0.27	10/06/2004
PCB-1268	237	650	<1.0		ug/L	1.0	1.0	10/06/2004
Decachlorobiphenyl (Surr.)	237	650	24		%			10/06/2004
Tetrachlorometaxylene (Surr.)	237	650	66		%			10/06/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
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10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Cyanide, Total mdl		1402	0.198	mg/L	0.197	100		10/04/2004
Cyanide, mdl		878	0.1980	mg/kg	0.190	96		10/08/2004
Arsenic, (GFAA) LL mdl	3029	75	0.040	mg/L	0.0374	94		10/01/2004
Cadmium, (GFAA) mdl	3029	59	0.0200	mg/L	0.0188	94		10/01/2004
Lead, (GFAA) mdl	3029	98	0.0400	mg/L	0.0386	96		10/04/2004
Mercury, mdl		2430	1.64	ug/L	1.54	94	B	10/06/2004
Mercury, diss mdl		800	1.64	ug/L	1.64	100	B	10/06/2004
Selenium, (GFAA) mdl	3029	65	0.0800	mg/L	0.0727	91		10/04/2004
Arsenic, (GFAA) mdl	915	635	0.0400	mg/L	0.0400	100		10/01/2004
Mercury, mdl		2066	0.159	mg/kg	0.139	87	B	10/12/2004
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061	91		10/04/2004
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061	91		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149	92		10/04/2004
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160	92		10/04/2004
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160	92		10/04/2004
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81	90		10/04/2004
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66	92		10/04/2004
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449	94		10/04/2004
Barium, (ICP) mdl	4078	6421	1.00	mg/L	0.9110	91		10/04/2004
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811	98		10/04/2004
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811	98		10/04/2004
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442	94		10/04/2004
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442	94		10/04/2004
VOLATILE COMPOUNDS								
Benzene		5796	20.0	ug/L	22.4	112		10/02/2004
Chlorobenzene		5796	20.0	ug/L	19.7	98		10/02/2004
1,1-Dichloroethene		5796	20.0	ug/L	24.6	123		10/02/2004
Ethylbenzene		5796	20.0	ug/L	19.3	96		10/02/2004
MTBE		5796	20.0	ug/L	22.6	113		10/02/2004
1,2,4-Trimethylbenzene		5796	20.0	ug/L	18.8	94		10/02/2004
Toluene		5796	20.0	ug/L	20.4	102		10/02/2004
1,3,5-Trimethylbenzene		5796	20.0	ug/L	19.1	96	B	10/02/2004

B - This analyte was detected in the method blank.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Trichloroethylene		5796	20.0	ug/L	21.0	105		10/02/2004
Xylenes, Total		5796	60.0	ug/L	58.4	97		10/02/2004
Dibromofluoromethane (surr)		5796	100	%	103.0	103		10/02/2004
Toluene-d8 (surr)		5796	100	%	96.0	96		10/02/2004
4-Bromofluorobenzene (surr)		5796	100	%	98.0	98		10/02/2004
VOA 8260 NON-AQUEOUS LRL								
Benzene		1059	27.49	ug/kg	26.4	96		10/09/2004
Bromoform		1059	27.49	ug/kg	26.3	96		10/09/2004
Chlorobenzene		1059	27.49	ug/kg	25.4	92		10/09/2004
1,1-Dichloroethane		1059	27.49	ug/kg	25.6	93		10/09/2004
1,1-Dichloroethene		1059	27.49	ug/kg	25.0	91		10/09/2004
Ethylbenzene		1059	27.49	ug/kg	25.1	91		10/09/2004
MTBE		1059	27.49	ug/kg	27.7	101		10/09/2004
1,1,2,2-Tetrachloroethane		1059	27.49	ug/kg	27.1	99		10/09/2004
Toluene		1059	27.49	ug/kg	25.4	92		10/09/2004
Trichloroethylene		1059	27.49	ug/kg	24.0	87		10/09/2004
1,2,4-Trimethylbenzene		1059	27.49	ug/kg	24.4	89		10/09/2004
1,3,5-Trimethylbenzene		1059	27.49	ug/kg	24.7	90		10/09/2004
Vinyl Chloride		1059	27.49	ug/kg	23.7	86		10/09/2004
Xylenes, Total		1059	82.46	ug/kg	74.9	91		10/09/2004
4-Bromofluorobenzene (surr)		1059	100	%	102	102		10/09/2004
Dibromofluoromethane (surr)		1059	100	%	99	99		10/09/2004
Toluene-d8 (surr)		1059	100	%	100	100		10/09/2004
BNA Soil 8270 MDL								
Acenaphthene	115	185	3.33	mg/kg	2.96	89		09/30/2004
1,4-Dichlorobenzene	115	185	3.33	mg/kg	2.35	71		09/30/2004
2,4-Dinitrotoluene	115	185	3.33	mg/kg	3.64	109		09/30/2004
N-Nitrosodi-n-propylamine	115	185	3.33	mg/kg	2.59	78		09/30/2004
Pyrene	115	185	3.33	mg/kg	3.34	100		09/30/2004
1,2,4-Trichlorobenzene	115	185	3.33	mg/kg	2.39	72		09/30/2004
Nitrobenzene-d5 (surr)	115	185	100	%	73.7	74		09/30/2004
2-Fluorobiphenyl (surr)	115	185	100	%	81.4	81		09/30/2004
Terphenyl-d14 (surr)	115	185	100	%	108.0	108		09/30/2004

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
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10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
4-Chloro-3-methylphenol	115	185	3.33	mg/kg	2.98	90		09/30/2004
2-chlorophenol	115	185	3.33	mg/kg	2.24	67		09/30/2004
4-Nitrophenol	115	185	3.33	mg/kg	3.46	104		09/30/2004
Pentachlorophenol	115	185	3.33	mg/kg	3.11	93		09/30/2004
Phenol	115	185	3.33	mg/kg	2.24	67		09/30/2004
Phenol-d6 (surr)	115	185	100	%	68.2	68		09/30/2004
2-Fluorophenol (surr)	115	185	100	%	66.2	66		09/30/2004
Tribromophenol (surr)	115	185	100	%	107.0	107		09/30/2004
BNA - 8270 AQUEOUS WI								
Acenaphthene	448	850	100.0	ug/L	89.1	89		10/06/2004
1,4-Dichlorobenzene	448	850	100.0	ug/L	68.6	69		10/06/2004
2,4-Dinitrotoluene	448	850	100.0	ug/L	111	111		10/06/2004
N-Nitrosodi-n-propylamine	448	850	100.0	ug/L	84.6	85		10/06/2004
Pyrene	448	850	100.0	ug/L	92.0	92		10/06/2004
1,2,4-Trichlorobenzene	448	850	100.0	ug/L	69.8	70		10/06/2004
Nitrobenzene-d5 (surr)	448	850	100	%	79.0	79		10/06/2004
2-Fluorobiphenyl (surr)	448	850	100	%	82.0	82		10/06/2004
Terphenyl-d14 (surr)	448	850	100	%	92.0	92		10/06/2004
4-Chloro-3-methylphenol	448	850	100.0	ug/L	86.0	86		10/06/2004
2-chlorophenol	448	850	100.0	ug/L	69.5	70		10/06/2004
4-Nitrophenol	448	850	100.0	ug/L	47.2	47		10/06/2004
Pentachlorophenol	448	850	100.0	ug/L	105	105		10/06/2004
Phenol	448	850	100.0	ug/L	31.7	32		10/06/2004
Phenol-d6 (surr)	448	850	100	%	31.0	31		10/06/2004
2-Fluorophenol (surr)	448	850	100	%	47.0	47		10/06/2004
Tribromophenol (surr)	448	850	100	%	107.0	107		10/06/2004
PCB's Non-Aqueous								
PCB-1248	839	1909	0.17	mg/kg	0.11	65		10/13/2004
Decachlorobiphenyl (Surr.)	839	1909	0.0	%	0	0	NS	10/13/2004
Tetrachlorometaxylene (Surr.)	839	1909	100	%	83	83		10/13/2004
PCBs Wisconsin Aqueous								
PCB-1248	237	650	5.0	ug/L	2.4	48		10/06/2004
Decachlorobiphenyl (Surr.)	237	650	100	%	21	21		10/06/2004

N - Spike recovery for this analyte is out of control
S - Reported value determined by the method of standard additions



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QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Tetrachlorometaxylene (Surr.)	237	650	100	%	54	54		10/06/2004

QUALITY CONTROL REPORT MATRIX SPIKE

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS % Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1702	1.0		COMPLETE				10/06/2004
Barium, Diss (ICP) mdl		6426	0.9615	mg/L	0.024	0.9196	93		10/06/2004
Chromium, Diss (ICP) mdl		6442	0.9615	mg/L	<0.0080	0.9438	98	IE	10/06/2004
Silver, Diss (ICP) mdl		6440	0.9804	mg/L	<0.0038	0.7359	75		10/06/2004
Arsenic, Diss (GFAA) mdl		52	0.0227	mg/L	<0.00036	0.0251	111		10/01/2004
Cadmium, Diss (GFAA) mdl		40	0.00119	mg/L	<0.00014	0.00123	103		10/01/2004
Lead, Diss (GFAA) mdl		46	0.0227	mg/L	<0.00050	0.0227	100		10/04/2004
Selenium, Diss (GFAA) mdl		40	0.0238	mg/L	<0.0030	0.01559	66	N,S	10/04/2004

IE - Elevated Reporting Limit due to interelement interference.
N - Spike recovery for this analyte is out of control
S - Reported value determined by the method of standard additions

QUALITY CONTROL REPORT DUPLICATES

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job Number: 04.13543

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed	RPD Max. Limit
Solids, Total		2772	2.97	2.96	%	0.3		09/29/2004	20
Solids, Total		2772	92.71	92.26	%	0.5		09/29/2004	20
Dissolved ICP Metals		1702	COMPLETE	COMPLETE				10/06/2004	20
Barium, Diss (ICP) mdl		6426	0.062	0.063	mg/L	1.6		10/06/2004	20
Chromium, Diss (ICP) mdl		6442	<0.010	<0.010	mg/L		IE	10/06/2004	20
Silver, Diss (ICP) mdl		6440	<0.0038	<0.0038	mg/L			10/06/2004	20
Arsenic, Diss (GFAA) mdl		52	0.00750	0.00804	mg/L	6.9		10/01/2004	20
Cadmium, Diss (GFAA) mdl		40	<0.00014	<0.00014	mg/L			10/01/2004	20
Lead, Diss (GFAA) mdl		46	<0.00050	<0.00050	mg/L			10/04/2004	20
Selenium, Diss (GFAA) mdl		40	<0.0015	<0.0015	mg/L			10/04/2004	20

IE - Elevated Reporting Limit due to interelement interference.

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD		Percent	MS/MSD	
	Batch	Batch	Spike					MSD	Spike			Recovery
Cyanide, Total mdl		1402	0.205	<0.0022	0.198	mg/L	103.5	0.211	0.198	mg/L	106.6	2.9
Cyanide, mdl		878	21.53	1.66	23.09	mg/kg dw	86.0	22.12	23.31	mg/kg dw	87.7	2.7
Arsenic, (GFAA) LL mdl		75	0.7090	0.6210	0.0400	mg/L	220.0	0.6950	0.0400	mg/L	185.0	2.0
Cadmium, (GFAA) mdl		59	0.0176	<0.0001	0.0200	mg/L	88.0	0.0185	0.0200	mg/L	92.5	5.0
Lead, (GFAA) mdl		98	0.0394	<0.0005	0.0400	mg/L	98.5	0.0388	0.0400	mg/L	97.0	1.5
Mercury, mdl		2430	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
Mercury, diss mdl		800	1.52	0.122	1.64	ug/L	85.2	1.62	1.64	ug/L	91.3	6.4
Selenium, (GFAA) mdl		65	0.0665	0.0022	0.0800	mg/L	80.4	0.0652	0.0800	mg/L	78.8	2.0
Arsenic, (GFAA) mdl	915	635	6.87	3.03	2.56	mg/kg dw	150.0	5.98	2.50	mg/kg dw	117.9	13.9
Mercury, mdl		2066	0.183	0.047	0.164	mg/kg dw	82.8	0.209	0.204	mg/kg dw	79.2	13.1
ICP Metals-Solid mdl												
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Barium, (ICP) mdl	1510	2811	438	180	241	mg/kg dw	108.1	394	232	mg/kg dw	93.2	10.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Cadmium, (ICP) mdl	1510	2817	232	9.2	241	mg/kg dw	92.6	231	232	mg/kg dw	95.5	0.5
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.0
Chromium, (ICP) mdl	1510	2816	321	130	241	mg/kg dw	80.8	345	232	mg/kg dw	94.2	7.3
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Lead, (ICP) mdl	1510	2833	1,080	63,300	482	mg/kg dw	0.0	932	465	mg/kg dw	0.0	14.8
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Selenium, (ICP) mdl	1510	2810	859	<54	964	mg/kg dw	89.1	818	929	mg/kg dw	88.0	4.9
Silver, (ICP) mdl	1510	645	324	<4.1	350	mg/kg dw	92.4			mg/kg dw		
Barium, (ICP) mdl	4078	6421	0.9367	0.024	1.000	mg/L	91.3	0.9407	1.000	mg/L	91.7	0.4
Chromium, (ICP) mdl	4078	6437	0.9862	<0.020	1.000	mg/L	98.6	0.9901	1.000	mg/L	99.0	0.4
Chromium, (ICP) mdl	4078	6437	0.9862	0.0089	1.000	mg/L	97.7	0.9901	1.000	mg/L	98.1	0.4
Silver, (ICP) mdl	4078	6435	0.9560	<0.020	0.9804	mg/L	97.5			mg/L		
Silver, (ICP) mdl	4078	6435	0.9560	<0.0038	0.9804	mg/L	97.5			mg/L		

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD	
	Batch	Batch	Spike						Result	Amount			Units
VOLATILE COMPOUNDS													
Benzene		5796	24	<0.25	20	ug/L	120.0	23.2	20.0	ug/L	116.0	3.4	
Chlorobenzene		5796	22	<0.25	20	ug/L	110.0	20.3	20.0	ug/L	101.5	8.0	
1,1-Dichloroethene		5796	24	<0.25	20	ug/L	120.0	23.0	20.0	ug/L	115.0	4.3	
Ethylbenzene		5796	20.4	<0.43	20.0	ug/L	102.0	18.1	20.0	ug/L	90.5	11.9	
1,2,4-Trimethylbenzene		5796	16.1	<0.25	20.0	ug/L	80.5	13.9	20.0	ug/L	69.5	14.7	
Toluene		5796	21	<0.25	20	ug/L	105.0	20.1	20.0	ug/L	100.5	4.4	
1,3,5-Trimethylbenzene		5796	15.0	<0.14	20.0	ug/L	75.0	12.8	20.0	ug/L	64.0	15.8	
Trichloroethylene		5796	22.6	<0.43	20.0	ug/L	113.0	21.3	20.0	ug/L	106.5	5.9	
VOA 8260 NON-AQUEOUS LRL													
Benzene		1059	75.0	<0.57	74.99	ug/kg dw	100.1	58.8	60.70	ug/kg dw	97.0	24.2	
Bromoform		1059	74.0	<3.48	74.99	ug/kg dw	98.7	58.1	60.70	ug/kg dw	95.8	24.0	
Chlorobenzene		1059	72.1	<0.441	74.99	ug/kg dw	96.2	54.5	60.70	ug/kg dw	89.8	27.9	
1,1-Dichloroethane		1059	72.0	<0.83	74.99	ug/kg dw	96.1	59.0	60.70	ug/kg dw	97.1	20.0	
1,1-Dichloroethene		1059	70.8	<0.348	74.99	ug/kg dw	94.4	57.5	60.70	ug/kg dw	94.7	20.7	
Ethylbenzene		1059	68.7	<0.57	74.99	ug/kg dw	91.6	53.1	60.70	ug/kg dw	87.6	25.6	
MTBE		1059	81.6	<4.93	74.99	ug/kg dw	108.8	63.8	60.70	ug/kg dw	105.2	24.4	
1,1,2,2-Tetrachloroethane		1059	76.2	<1.1	74.99	ug/kg dw	101.6	62.6	60.70	ug/kg dw	103.1	19.6	
Toluene		1059	74.9	<0.73	74.99	ug/kg dw	99.9	54.5	60.70	ug/kg dw	89.8	31.6	
Trichloroethylene		1059	68.4	<0.99	74.99	ug/kg dw	91.2	53.5	60.70	ug/kg dw	88.1	24.5	
1,2,4-Trimethylbenzene		1059	66.7	<5.2	74.99	ug/kg dw	89.0	47.6	60.70	ug/kg dw	78.5	33.4	
1,3,5-Trimethylbenzene		1059	67.0	<5.2	74.99	ug/kg dw	89.4	49.8	60.70	ug/kg dw	82.1	29.5	
Vinyl Chloride		1059	66.3	<0.78	74.99	ug/kg dw	88.4	51.9	60.70	ug/kg dw	85.5	24.4	
Xylenes, Total		1059	214	<5.2	225.0	ug/kg dw	95.0	160	182.0	ug/kg dw	87.8	28.9	
BNA Soil 8270 MDL													
Acenaphthene		115	185	3.67	<0.076	4.00	mg/kg dw	91.9	3.71	4.01	mg/kg dw	92.5	1.0
1,4-Dichlorobenzene		115	185	3.13	<0.10	4.00	mg/kg dw	78.3	3.00	4.01	mg/kg dw	74.8	4.3

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD
	Batch	Batch	Spike						Result	Spike		
2,4-Dinitrotoluene	115	185	4.21	<0.057	4.00	mg/kg dw	105.4	4.25	4.01	mg/kg dw	106.0	0.9
N-Nitrosodi-n-propylamine	115	185	3.43	<0.10	4.00	mg/kg dw	85.8	3.31	4.01	mg/kg dw	82.6	3.6
Pyrene	115	185	4.02	<0.060	4.00	mg/kg dw	100.6	4.02	4.01	mg/kg dw	100.3	0.0
1,2,4-Trichlorobenzene	115	185	3.21	<0.088	4.00	mg/kg dw	80.4	3.07	4.01	mg/kg dw	76.6	4.6
4-Chloro-3-methylphenol	115	185	3.71	<0.087	4.00	mg/kg dw	92.8	3.60	4.01	mg/kg dw	89.8	3.0
2-chlorophenol	115	185	2.89	<0.10	4.00	mg/kg dw	72.3	2.71	4.01	mg/kg dw	67.6	6.5
4-Nitrophenol	115	185	1.41	<0.079	4.00	mg/kg dw	35.2	0.88	4.01	mg/kg dw	21.9	46.3
Pentachlorophenol	115	185	0.37	<0.093	4.00	mg/kg dw	9.3	0.14	4.01	mg/kg dw	3.6	88.4
Phenol	115	185	3.07	<0.093	4.00	mg/kg dw	76.8	2.82	4.01	mg/kg dw	70.3	8.6
BNA - 8270 AQUEOUS WI												
Acenaphthene	448	850	97.0	<2.9	102.0	ug/L	95.1	93.8	106.4	ug/L	88.2	3.4
1,4-Dichlorobenzene	448	850	63.4	<2.1	102.0	ug/L	62.2	71.5	106.4	ug/L	67.2	12.0
2,4-Dinitrotoluene	448	850	114	<2.59	102.0	ug/L	111.8	113	106.4	ug/L	106.2	0.9
N-Nitrosodi-n-propylamine	448	850	81.9	<2.44	102.0	ug/L	80.3	87.4	106.4	ug/L	82.1	6.5
Pyrene	448	850	98.7	<2.8	102.0	ug/L	96.8	96.2	106.4	ug/L	90.4	2.6
1,2,4-Trichlorobenzene	448	850	65.9	<2.33	102.0	ug/L	64.6	74.0	106.4	ug/L	69.5	11
4-Chloro-3-methylphenol	448	850	92.3	<2.7	102.0	ug/L	90.5	89.7	106.4	ug/L	84.3	2.5
2-chlorophenol	448	850	79.0	<2.48	102.0	ug/L	77.5	76.4	106.4	ug/L	71.8	3.3
4-Nitrophenol	448	850	53.6	<1.8	102.0	ug/L	52.5	55.6	106.4	ug/L	52.3	3.7
Pentachlorophenol	448	850	112	<2.78	102.0	ug/L	109.8	113	106.4	ug/L	106.2	0.9
Phenol	448	850	37.1	<1.72	102.0	ug/L	36.4	36.1	106.4	ug/L	33.9	2.7
PCB's Non-Aqueous												
PCB-1016	839	1909	<0.15	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw	200.0	200.0
PCB-1221	839	1909	<0.19	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw	200.0	200.0
PCB-1232	839	1909	<0.029	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw	200.0	200.0
PCB-1242	839	1909	<0.049	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw	200.0	200.0
PCB-1248	839	1909	.31	<0.6	0.22	mg/kg dw	141.2	0.31	0.20	mg/kg dw	150.0	0.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

HOWARD R. GREEN-CR
 8710 Earhart Lane SW
 Cedar Rapids, IA 52404

10/19/2004

Cindy Quast

Job Number: 04.13543

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Percent	MS/MSD
	Batch	Batch	Spike								
PCB-1254	839	1909	<0.025	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw 200.0	200.0
PCB-1260	839	1909	<0.14	<0.6	0	mg/kg dw	0	1.3	1.3	mg/kg dw 200.0	200.0

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

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QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/19/2004

Job No: 04.13543

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD Max.	
	Batch	Batch								Amount	Result
Cyanide, Total mdl		1402	0.198	mg/L	0.197		99.5		90 - 110		20
Cyanide, mdl		878	0.1980	mg/kg	0.190		96.0		90 - 110		20
Arsenic, (GFAA) LL mdl	3029	75	0.040	mg/L	0.0374		93.5		85 - 120		20
Cadmium, (GFAA) mdl	3029	59	0.0200	mg/L	0.0188		94.0		80 - 120		20
Lead, (GFAA) mdl	3029	98	0.0400	mg/L	0.0386		96.5		90 - 115		20
Mercury, mdl		2430	1.64	ug/L	1.54		93.9		80 - 125		20
Mercury, diss mdl		800	1.64	ug/L	1.64		100.0		80 - 125		20
Selenium, (GFAA) mdl	3029	65	0.0800	mg/L	0.0727		90.9		85 - 115		20
Arsenic, (GFAA) mdl	915	635	0.0400	mg/L	0.0400		100.0		80 - 120		20
Mercury, mdl		2066	0.159	mg/kg	0.139		87.4		80 - 115		20
Barium, (ICP) mdl	1510	2811	1.0	mg/L	0.9061		90.6		90 - 110		20
Barium, (ICP) mdl	1510	2811	1.00	mg/L	0.9061		90.6		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.0	mg/L	0.9149		91.5		90 - 110		20
Cadmium, (ICP) mdl	1510	2817	1.00	mg/L	0.9149		91.5		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.0	mg/L	0.9160		91.6		90 - 110		20
Chromium, (ICP) mdl	1510	2816	1.00	mg/L	0.9160		91.6		90 - 110		20
Lead, (ICP) mdl	1510	2833	2.00	mg/L	1.81		90.5		85 - 110		20
Selenium, (ICP) mdl	1510	2810	4.00	mg/L	3.66		91.5		90 - 110		20
Silver, (ICP) mdl	1510	645	1.00	mg/L	0.9449		94.5		80 - 120		20
Barium, (ICP) mdl	4078	6421	1.00	mg/L	0.9110		91.1		90 - 115		20
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811		98.1		90 - 110		20
Chromium, (ICP) mdl	4078	6437	1.00	mg/L	0.9811		98.1		90 - 110		20
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442		94.4		90 - 115		20
Silver, (ICP) mdl	4078	6435	1.00	mg/L	0.9442		94.4		90 - 115		20
VOLATILE COMPOUNDS											
Benzene		5796	20.0	ug/L	22.4		112.0		81 - 124		27
Chlorobenzene		5796	20.0	ug/L	19.7		98.5		77 - 125		28
1,1-Dichloroethene		5796	20.0	ug/L	24.6		123.0		53 - 143		28
Ethylbenzene		5796	20.0	ug/L	19.3		96.5		65 - 140		24
MTBE		5796	20.0	ug/L	22.6		113.0		70 - 133		26
1,2,4-Trimethylbenzene		5796	20.0	ug/L	18.8		94.0		59 - 145		23
Toluene		5796	20.0	ug/L	20.4		102.0		73 - 127		21

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job No: 04.13543

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	Control Limits	RPD	RPD Max. Limit
	Batch Number	Batch Number									
1,3,5-Trimethylbenzene		5796	20.0	ug/L	19.1		95.5		63 - 141		24
Trichloroethylene		5796	20.0	ug/L	21.0		105.0		81 - 121		16
Xylenes, Total		5796	60.0	ug/L	58.4		97.3		75 - 130		20
Dibromofluoromethane (surr)		5796	100	%	103.0		103.0		85 - 118		50
Toluene-d8 (surr)		5796	100	%	96.0		96.0		76 - 120		50
4-Bromofluorobenzene (surr)		5796	100	%	98.0		98.0		76 - 116		50
VOA 8260 NON-AQUEOUS LRL											
Benzene		1059	27.49	ug/kg	26.4		96.0		68 - 158		20
Bromoform		1059	27.49	ug/kg	26.3		95.7		61 - 151		20
Chlorobenzene		1059	27.49	ug/kg	25.4		92.4		65 - 155		20
1,1-Dichloroethane		1059	27.49	ug/kg	25.6		93.1		64 - 154		20
1,1-Dichloroethene		1059	27.49	ug/kg	25.0		90.9		55 - 148		20
Ethylbenzene		1059	27.49	ug/kg	25.1		91.3		69 - 159		20
MTBE		1059	27.49	ug/kg	27.7		100.8		71 - 161		20
1,1,2,2-Tetrachloroethane		1059	27.49	ug/kg	27.1		98.6		63 - 153		20
Toluene		1059	27.49	ug/kg	25.4		92.4		68 - 158		20
Chloroethylene		1059	27.49	ug/kg	24.0		87.3		61 - 151		20
1,4-Trimethylbenzene		1059	27.49	ug/kg	24.4		88.8		68 - 158		20
1,3,5-Trimethylbenzene		1059	27.49	ug/kg	24.7		89.9		66 - 156		20
Vinyl Chloride		1059	27.49	ug/kg	23.7		86.2		47 - 137		20
Xylenes, Total		1059	82.46	ug/kg	74.9		90.8		69 - 159		20
4-Bromofluorobenzene (surr)		1059	100	%	102		102.0		75 - 119		20
Dibromofluoromethane (surr)		1059	100	%	99		99.0		56 - 146		
Toluene-d8 (surr)		1059	100	%	100		100.0		52 - 142		
BNA Soil 8270 MDL											
Acenaphthene	115	185	3.33	mg/kg	2.96		88.9		69 - 108		35
1,4-Dichlorobenzene	115	185	3.33	mg/kg	2.35		70.6		49 - 96		35
2,4-Dinitrotoluene	115	185	3.33	mg/kg	3.64		109.3		68 - 129		35
N-Nitrosodi-n-propylamine	115	185	3.33	mg/kg	2.59		77.8		53 - 105		35
Pyrene	115	185	3.33	mg/kg	3.34		100.3		68 - 117		35
1,2,4-Trichlorobenzene	115	185	3.33	mg/kg	2.39		71.8		51 - 98		35
Nitrobenzene-d5 (surr)	115	185	100	%	73.7		73.7		56 - 113		

TestAmerica

ANALYTICAL TESTING CORPORATION

704 ENTERPRISE DRIVE · CEDAR FALLS, IA 50613 · 319-277-2401 · 800-750-2401 · FAX 319-277-2401

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

10/19/2004

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

Job No: 04.13543

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Control	RPD	RPD Max.
	Batch	Batch									
	Number	Number									Limit
2-Fluorobiphenyl (surr)	115	185	100	%	81.4		81.4		67 - 107		
Terphenyl-d14 (surr)	115	185	100	%	108.0		108.0		66 - 115		
4-Chloro-3-methylphenol	115	185	3.33	mg/kg	2.98		89.5		67 - 115		35
2-chlorophenol	115	185	3.33	mg/kg	2.24		67.3		51 - 94		35
4-Nitrophenol	115	185	3.33	mg/kg	3.46		103.9		63 - 140		35
Pentachlorophenol	115	185	3.33	mg/kg	3.11		93.4		49 - 139		35
Phenol	115	185	3.33	mg/kg	2.24		67.3		50 - 98		35
Phenol-d6 (surr)	115	185	100	%	68.2		68.2		55 - 106		
2-Fluorophenol (surr)	115	185	100	%	66.2		66.2		52 - 96		
Tribromophenol (surr)	115	185	100	%	107.0		107.0		66 - 149		
BNA - 8270 AQUEOUS WI											
Acenaphthene	448	850	100.0	ug/L	89.1		89.1		42 - 127		20
1,4-Dichlorobenzene	448	850	100.0	ug/L	68.6		68.6		30 - 101		20
2,4-Dinitrotoluene	448	850	100.0	ug/L	111		111.0		51 - 141		20
N-Nitrosodi-n-propylamine	448	850	100.0	ug/L	84.6		84.6		39 - 119		20
Pyrene	448	850	100.0	ug/L	92.0		92.0		44 - 130		20
1,2,4-Trichlorobenzene	448	850	100.0	ug/L	69.8		69.8		35 - 105		20
Nitrobenzene-d5 (surr)	448	850	100	%	79.0		79.0		37 - 127		20
2-Fluorobiphenyl (surr)	448	850	100	%	82.0		82.0		40 - 114		20
Terphenyl-d14 (surr)	448	850	100	%	92.0		92.0		38 - 116		20
4-Chloro-3-methylphenol	448	850	100.0	ug/L	86.0		86.0		41 - 127		20
2-chlorophenol	448	850	100.0	ug/L	69.5		69.5		35 - 107		20
4-Nitrophenol	448	850	100.0	ug/L	47.2		47.2		15 - 66		20
Pentachlorophenol	448	850	100.0	ug/L	105		105.0		19 - 109		20
Phenol	448	850	100.0	ug/L	31.7		31.7		0 - 90		20
Phenol-d6 (surr)	448	850	100	%	31.0		31.0		28 - 109		20
2-Fluorophenol (surr)	448	850	100	%	47.0		47.0		30 - 140		20
Tribromophenol (surr)	448	850	100	%	107.0		107.0		44 - 134		20
PCB's Non-Aqueous											
PCB-1248	839	1909	0.17	mg/kg	0.11		64.7		40 - 122		20
Decachlorobiphenyl (Surr.)	839	1909	0.0	%	0		0		63 - 131		35
Tetrachlorometaxylene (Sur	839	1909	100	%	83		83.0		35 - 125		

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Cindy Quast
HOWARD R. GREEN-CR
8710 Earhart Lane SW
Cedar Rapids, IA 52404

10/19/2004

Job No: 04.13543

Analyte	Prep	Run	LCS	Units	LCS	LCSD	LCS	LCSD	Control	RPD	RPD Max.
	Batch	Batch									
PCBs Wisconsin Aqueous											
PCB-1248	237	650	5.0	ug/L	2.4	3.0	48.0	60.0	34 - 111	22.2	20
Decachlorobiphenyl (Surr.)	237	650	100	%	21	20	21.0	20.0	37 - 134	4.9	
Tetrachlorometaxylene (Sur	237	650	100	%	54	56	54.0	56.0	37 - 115	3.6	

TestAmerica Job Number: 04.13543

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at **www.TestAmericaInc.com**.

This data has been produced in compliance with 2002 NELAC Standards (July 2004), except where noted.

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

TestAmerica

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613 • 800-750-2401 • 319-277-2425 FAX

ANALYTICAL TESTING CORPORATION

Sample Receipt and Temperature Log Form

Client: Howard R Green Project: _____

City: _____

Date: 9-28-04 Receiver's Initials na Time (Delivered): 16:10

Temperature Record

Cooler ID# (If Applicable)

5 °C / On Ice

Thermometer:

- IR - 905085 "A"
 IR - 809065 "B"
 CF07-03-T2
 22126775

Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svcs
<input type="checkbox"/> FedEx	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes No

Non-Conformance report started

Exceptions Noted

- Sample(s) not received in a cooler.
- Samples(s) received same day of sampling.
- Temperature not taken:
- _____

Log-In by:

JP MF EM

OT _____

*Refer to SOP CF01-01 for Temperature Criteria

C:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev5.doc

APPENDIX F

Boring Logs Monitor Well Construction Details



December 8, 2004

Ms. Cynthia L. Quast, P.E.
Howard R. Green Company
8710 Earhart Lane SW
Cedar Rapids, IA 52409

Subject: **Contract Drilling & Well Installation Services**
Former Chamberlain Facility
Waterloo, Iowa
Maxim Project # 4370204

Dear Ms. Quast:

Maxim Technologies (Maxim) has completed drilling services and monitoring well installation services for the above referenced project and is pleased to provide boring logs/well construction diagrams for the soil borings/monitoring wells advanced on site.

Maxim appreciates the opportunity to have worked with you on this project and we look forward to working with your firm on future projects. If you have any questions or need additional information, please contact me at (319) 232-6591.

Sincerely,

MAXIM TECHNOLOGIES



Gaylen Hiesterman
Project Manager

GDH/laf

Attachments: (44) Soil Boring Log, IDNR Form 542-1392

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-1	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 10' x 7"		Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert	
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)	

Date & Time Start 9-9-04 09:35	Date & Time End 9-9-04 10:05	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>if Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
				HSA		FILL-mostly sand, fine grained with gravel, concrete at the surface
				SS		
				SS	4.0	
5				SS		SAND-fine grained, light yellow / reddish brown, dense (SP)
				SS	6.0	
				SS		SAND-very fine grained, dark brown (SP)
						waterbearing
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-2	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-9-04 08:45	Date & Time End 9-9-04 09:25	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly sand, dark brown with gravel, concrete at the surface
				SS		
5				SS	4.0	SAND-fine grained, light brown, dense (SP)
				SS	6.0	wet
				SS	8.0	SAND-very fine grained, dark brown
				SS		waterbearing
10					10.0	SILTY CLAY-dark grayish brown, dense, waterbearing (ML/CL)
						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-3	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa				
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA				
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert				
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)				
Date & Time Start 9-9-04 07:50	Date & Time End 9-9-04 08:30	UST Number		LUST Number		
Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
<div style="text-align: center;">5</div> <div style="text-align: center;">10</div>			<div style="text-align: center;">HSA</div> <div style="text-align: center;">SS</div> <div style="text-align: center;">SS</div> <div style="text-align: center;">SS</div> <div style="text-align: center;">SS</div>		<div style="text-align: center;">4.0</div> <div style="text-align: center;">6.0</div> <div style="text-align: center;">8.0</div> <div style="text-align: center;">10.0</div>	<div style="text-align: center;">FILL-mostly sand, fine grained, dark brown with gravel and pieces of metal, concrete at the surface</div> <div style="text-align: center;">SAND-fine grained, light brown, dense (SP)</div> <div style="text-align: center;">SAND-fine grained, black, dense (SP)</div> <div style="text-align: center;">CLAYEY SILT-dark gray / black (CL/ML) waterbearing</div> <div style="text-align: center;">End of Boring</div>

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:

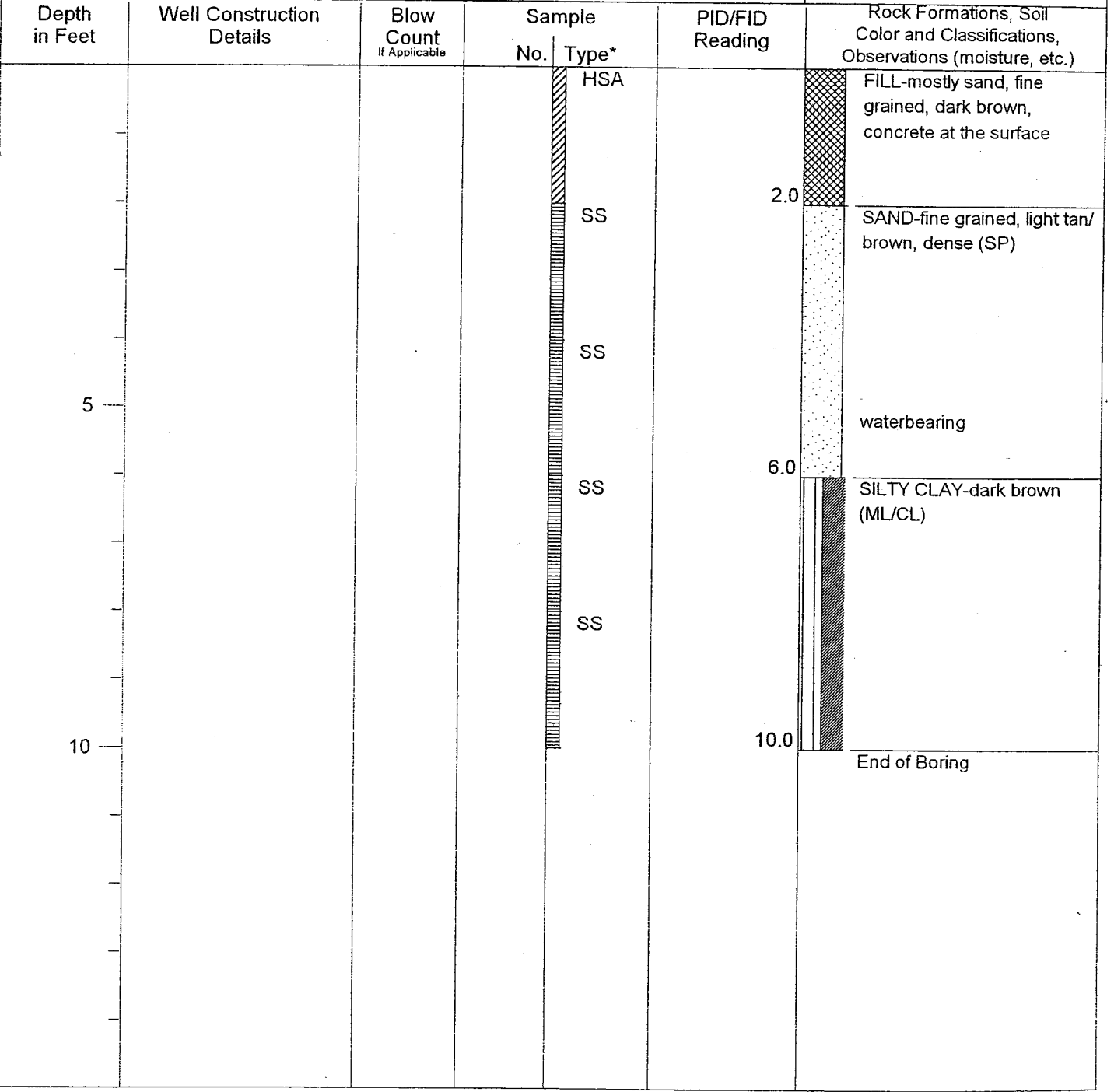
WATER LEVELS--Measured from Top of Casing
 Static Water Level Symbol ▼

Date :					
Level :					
Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-4	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 9-8-04 15:40	Date & Time End 9-8-04 16:05	UST Number	LUST Number
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*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-5/MW-1	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 30' x 8"		Drilling Method 4.25 HSA
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 9-9-04 10:25	Date & Time End 9-9-04 12:30	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Sample Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
0	Concrete			HSA		FILL-mostly sand, fine grained, light yellow with crushed road stone
4.0	2" Solid PVC Casing			SS		
5				SS		SAND-fine grained, black, odor (SP)
10	Bentonite			SS		waterbearing
13.0				SS		SILTY CLAY-dark reddish brown, slight odor (ML/CL)
15				SS		SAND-very fine, white, dense (SP)
20	Sand Pack			SS		flowing sands
25	0.010" Slotted PVC Screen			SS		
30						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-6	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert	
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)	

Date & Time Start 9-8-04 14:45	Date & Time End 9-8-04 15:10	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly silty sand, black with pieces of concrete and metal, grass at the surface
				SS		
5				SS	4.0	SAND-fine grained, dark brown (SP)
				SS	6.0	SAND-fine grained, light tan/white with black streaks, odor (SP)
10				SS	10.0	waterbearing
						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-7	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-7-04 11:50	Date & Time End 9-7-04 12:15	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
						TOPSOIL-silty sand, dark reddish brown with organic material, grass at the surface
					4.0	
5						SAND-fine grained, dark brown, dense (SP)
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-10/MW-2	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 13' x 8"	Drilling Method 4.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-14-04 11:00	Date & Time End 9-14-04 12:45	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Sample Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
	Concrete			HSA		FILL-mostly sand, fine grained, dark reddish brown, dense, concrete at the surface
	2" Solid PVC Casing			SS	2.0	SAND-fine grained, yellowish brown (SP)
	Bentonite			SS	4.0	SAND-fine grained, reddish brown, very dense (SP)
5	Sand Pack			SS		waterbearing
	0.010" Slotted PVC Screen			SS		
10				SS		
				SS	12.0	SANDY CLAY-dark brown, dense, waterbearing (SC)
					13.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-15/MW-3	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 15' x 8"	Drilling Method 4.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-14-04 13:00	Date & Time End 9-14-04 16:30	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
	Concrete			HSA		FILL-mostly sand, dark brown, concrete at the surface
2.0	2" Solid PVC Casing			SS		SAND-fine grained, dark brown (SP)
5.0	Bentonite			SS		
6.0				SS		SAND-fine to medium grained, light yellowish brown, dense (SP)
10.0	Sand Pack			SS		waterbearing
10.0				SS		SANDY CLAY-dark brown (SC)
15.0	0.010" Slotted PVC Screen			SS		with fine grained sand, light brown
15.0						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-18	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-3-04 12:30	Date & Time End 9-3-04 13:45	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">5</div> <div style="margin-bottom: 20px;">10</div> </div>				HSA SS SS SS SS	4.0 10.0	FILL-mostly silty sand, dark brown with gravel, asphalt at the surface SILTY SAND-fine grained, dark brown, dense (SM) End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-19	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-3-04 11:30	Date & Time End 9-3-04 12:00	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)	
			No.	Type*			
5			1	HSA		4.0	FILL-mostly silty sand, dark brown with gravel, asphalt at the surface
			2	SS			
			3	SS			SILTY SAND-fine grained, dark brown, dense (SM)
			4	SS			
			5	SS			
10						10.0	waterbearing
							End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-20/MW-4	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 15' X 8"	Drilling Method 4.25 HSA		
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert		
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)		

Date & Time Start 9-3-04 08:45	Date & Time End 9-3-04 11:15	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
0	Concrete			HSA		FILL-mostly silty sand, dark brown, concrete at the surface
2	2" Solid PVC Casing					
3	Bentonite			SS		
4				SS	4.0	
5	Sand Pack			SS		SILTY SAND-light brown, dense, waterbearing (SM)
10	0.010" Slotted PVC Screen			SS		flowing sands
15				SS	15.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-21	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-7-04 12:20	Date & Time End 9-7-04 12:40	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		TOPSOIL-silty sand, dark brown with organic material, grass at the surface
5				SS	4.0	
				SS		SILTY SAND-dark brown, dense (SM)
				SS		
				SS		
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-22	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA		
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert		
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)		

Date & Time Start 9-7-04 12:45	Date & Time End 9-7-04 13:10	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		TOPSOIL-silty sand, dark brown with organic material, grass at the surface
				SS		
				SS	4.0	SILTY SAND-dark brown, dense (SM)
5				SS		
				SS		
				SS		
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-23	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 10' X 7"	Drilling Method 3.25 HSA		
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert		
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)		

Date & Time Start 9-7-04 15:00	Date & Time End 9-7-04 15:40	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly silty sand, dark brown with gravel, grass at the surface
				SS	2.0	SILTY SAND-dark brown (SM)
5				SS	4.0	SILTY SAND-black, odor/sheen (SM)
				SS		waterbearing
				SS		with silty clay lense, black
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-24	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA	
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert	
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)	

Date & Time Start 9-7-04 13:40	Date & Time End 9-7-04 14:00	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
						FILL-mostly pieces of concrete with some organic material, grass at the surface
					4.0	
5				SS		SILTY SAND-fine grained, dark brown (SM)
				SS		
				SS		
10				SS	10.0	wet
						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-25/MW-5	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 30' x 8"	Drilling Method 4.25 HSA		
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert		
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)		

Date & Time Start 9-10-04 07:45	Date & Time End 9-10-04 10:10	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
0	Concrete			HSA		FILL-mostly sand, dark brown with gravel, grass at the surface
4.0	2" Solid PVC Casing			SS		SAND-fine grained, dark brown, dense (SP)
10.0	Bentonite			SS		waterbearing
14.0				SS		SILTY CLAY-dark brown with light grayish brown mottling, waterbearing (ML/CL)
15.0				SS		SAND-fine to medium grained, burnt reddish brown, dense, waterbearing (SP)
20.0	Sand Pack			SS		
25.0	0.010" Slotted PVC Screen			SS		
30.0						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-26		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 2' X 4"				Drilling Method 4" Flight Auger	
Well Contractor Name: Registration #: 40616				Logged by: Troy Niedert	
Ground Surface Elevation (ASL)				Top of Casing Elevation (ASL)	
Date & Time Start 9-3-04 12:40		Date & Time End 9-3-04 12:45		UST Number	LUST Number
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No. Type*		Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			FA		<div style="border: 1px solid black; padding: 5px;"> </div> <p style="margin-top: 10px;">2.0</p> <p style="margin-top: 10px;">End of Boring</p>

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-27	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 2' X 4"		Drilling Method 4" Flight Auger
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start	9-3-04 12:50	Date & Time End	9-3-04 12:55	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				FA		FILL-mostly silty sand, dark brown with gravel, asphalt at the surface
					2.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-28	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa	
Boring Depth (Feet) x Diameter (Inches) 2' X 4"		Drilling Method 4" Flight Auger	
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert	
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)	

Date & Time Start 9-3-04 12:55	Date & Time End 9-3-04 13:00	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				FA		FILL-mostly silty sand, fine grained, dark brown, dense, asphalt at the surface
					2.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-29	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 2' X 4"		Drilling Method 4" Flight Auger
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 9-3-04 08:40	Date & Time End 9-3-04 08:45	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
<div style="text-align: right; margin-right: 5px;">2.0</div>				FA		<div style="border: 1px solid black; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"> <div style="position: absolute; top: 0; right: 0; bottom: 0; left: 0; text-align: center; vertical-align: middle;"> End of Boring </div> </div>

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-30/MW-6	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 30' x 8"	Drilling Method 4.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-2-04 14:35	Date & Time End 9-10-04 13:00	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">Concrete</div> <div style="margin-bottom: 10px;">2" Solid PVC Casing</div> <div style="margin-bottom: 10px;">Bentonite</div> <div style="margin-bottom: 10px;">Sand Pack</div> <div style="margin-bottom: 10px;">0.010" Slotted PVC Screen</div> </div>			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">HSA</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> <div style="margin-bottom: 10px;">SS</div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">4.0</div> <div style="margin-bottom: 10px;">12.0</div> <div style="margin-bottom: 10px;">16.0</div> <div style="margin-bottom: 10px;">30.0</div> </div>	<div style="margin-bottom: 10px;">FILL-mostly silty sand, dark brown with gravel, concrete at the surface</div> <div style="margin-bottom: 10px;">SAND-fine grained, light brown (SP) waterbearing</div> <div style="margin-bottom: 10px;">SANDY CLAY-dark brown (SC)</div> <div style="margin-bottom: 10px;">SAND-fine grained, light brown, waterbearing (SP)</div> <div style="margin-bottom: 10px;">flowing sands</div> <div style="margin-bottom: 10px;">Center Plug - Sand Locked End of Boring</div>

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-31		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa		
Boring Depth (Feet) x Diameter (Inches) 2' X 4"				Drilling Method 4" Flight Auger		
Well Contractor Name: Registration #: 40616				Logged by: Troy Niedert		
Ground Surface Elevation (ASL)				Top of Casing Elevation (ASL)		
Date & Time Start 9-3-04 08:30		Date & Time End 9-3-04 08:35		UST Number	LUST Number	
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
<div style="text-align: right; margin-right: 10px;">2.0</div>				FA		<div style="border: 1px solid black; background-color: #cccccc; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> FILL-mostly silty sand, dark brown, concrete at the surface </div>
						<div style="border: 1px solid black; background-color: #cccccc; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> End of Boring </div>

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-34	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 9-2-04 09:50	Date & Time End 9-2-04 10:25	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
				HSA		FILL-mostly silty sand, light brown with gravel, concrete at the surface
				SS		
				SS	4.0	
5				SS		SAND-fine grained, dark brown, dense (SP)
				SS		
				SS		
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS--Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-39		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa		
Boring Depth (Feet) x Diameter (Inches) 10' X 7"				Drilling Method 3.25 HSA		
Well Contractor Name: Registration #: 40616				Logged by: Troy Niedert		
Ground Surface Elevation (ASL)				Top of Casing Elevation (ASL)		
Date & Time Start 9-2-04 08:00		Date & Time End 9-2-04 08:45		UST Number	LUST Number	
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
5			HSA			FILL-mostly silty sand, dark brown with gravel, pieces of metal and concrete at the surface
			SS			
			SS		4.0	
			SS			SAND-fine grained, light brown, very dense (SP)
10			SS			wet
					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :				
WATER LEVELS—Measured from Top of Casing	Level :				
Static Water Level Symbol ▼	Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-40	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 20' X 8"		Drilling Method 4.25 HSA
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 8-30-04 15:30	Date & Time End 8-30-04 16:40	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly silty sand, dark brown with pieces of concrete and rock, grass at the surface
5				SS	4.0	
				SS		SAND-very fine grained, light tan / brown, dense (SP)
				SS		
10				SS		
				SS	12.0	
				SS		SAND-very fine grained, dark gray, waterbearing (SP)
15				SS		with a dark gray clay lense
				SS	16.0	
				SS		SAND-very fine grained, light tan / white, very dense (SP)
20					20.0	
						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-45/MW-	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa				
Boring Depth (Feet) x Diameter (Inches) 30' x 8"	Drilling Method 4.25 HSA					
Well Contractor Name: Registration #:	40616	Logged by:	Troy Niedert			
Ground Surface Elevation (ASL)			Top of Casing Elevation (ASL)			
Date & Time Start 9-13-04 14:00	Date & Time End 9-13-04 16:20	UST Number	LUST Number			
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> </div> <div style="margin-bottom: 20px;"> <p>Concrete</p> <p>2" Solid PVC Casing</p> <p>Bentonite</p> <p>Sand Pack</p> <p>0.010" Slotted PVC Screen</p> </div> </div>			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> </div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> </div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> </div> </div>
30					30.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-47	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa				
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA				
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert				
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)				
Date & Time Start 9-8-04 11:10	Date & Time End 9-8-04 11:30	UST Number		LUST Number		
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly silty sand, light brown with a trace of gravel, concrete at the surface
				SS		
5				SS	4.0	SAND-fine grained, dark reddish brown, dense (SP)
				SS		
				SS	8.0	SAND-fine grained, light yellowish brown, dense (SP)
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-48		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa		
Boring Depth (Feet) x Diameter (Inches) 10' X 7"				Drilling Method 3.25 HSA		
Well Contractor Name: Registration #: 40616				Logged by: Troy Niedert		
Ground Surface Elevation (ASL)				Top of Casing Elevation (ASL)		
Date & Time Start 9-8-04 10:40		Date & Time End 9-8-04 11:00		UST Number	LUST Number	
Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly silty sand, light brown with a trace of gravel, concrete at the surface
				SS		
5				SS	4.0	SILTY SAND-fine grained, dark reddish brown (SM)
				SS		
				SS	8.0	SILTY SAND-light yellowish brown, very dense (SM)
10					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-50/MW-10	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 27' X 8"		Drilling Method 4.25 HSA
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)

Date & Time Start 8-31-04 15:30	Date & Time End 8-31-04 17:15	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
0	Concrete			HSA		FILL-mostly sand, fine grained, dark brown, concrete at the surface
0 - 15	2" Solid PVC Casing			SS	4.0	
0 - 15	Bentonite			SS		
15 - 18				SS	12.0	waterbearing
15 - 18				SS		SILTY CLAY-mottled browns and grays (ML/CL)
18 - 27	Sand Pack			SS	18.0	with a fine grained sand lense, light gray
18 - 27				SS		SAND-very fine grained, light gray (SP)
18 - 27				SS		flowing sands
25 - 27	0.010" Slotted PVC Screen			SS	27.0	
27						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS—Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-54	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa				
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA				
Well Contractor Name: Registration #: 40616		Logged by: Troy Niedert				
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)				
Date & Time Start 9-8-04 12:15	Date & Time End 9-8-04 13:05	UST Number		LUST Number		
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly sand, fine grained, dark brown with crushed road stone, asphalt at the surface
				SS	2.0	SAND-fine grained, dark brown, dense (SP)
5				SS		
				SS	6.0	SAND-very fine grained, yellowish tan, dense (SP)
10				SS		
					10.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-56/MW-11		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa		
Boring Depth (Feet) x Diameter (Inches) 14' x 8"				Drilling Method 4.25 HSA		
Well Contractor Name: Registration #: 40616				Logged by: Mike Miller		
Ground Surface Elevation (ASL)				Top of Casing Elevation (ASL)		
Date & Time Start 9-16-04 11:00		Date & Time End 9-16-04 09:30		UST Number	LUST Number	
Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
0	Concrete			HSA		FILL-mostly sand, fine grained, dark brown, concrete at the surface
2.0	2" Solid PVC Casing			SS	2.0	SAND-fine grained, light brown (SP)
5	Bentonite			SS		
10	Sand Pack			SS		waterbearing
12.0	0.010" Slotted PVC Screen			SS	12.0	CLAY-light brown (CL)
14.0					14.0	End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:		Date :				
WATER LEVELS--Measured from Top of Casing		Level :				
Static Water Level Symbol		Time :				

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-60/MW-12	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 30' x 8"	Drilling Method 4.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Troy Niedert	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-15-04 09:45	Date & Time End 9-15-04 11:30	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
0 5 10 15 20 25 30	Concrete 2" Solid PVC Casing Bentonite Sand Pack 0.010" Slotted PVC Screen			HSA SS SS SS SS SS SS SS SS	4.0 6.0 12.0 30.0	FILL-mostly sand, fine grained, dark brown, gravel at the surface SAND-fine grained, black with pieces of coal (SP) SAND-fine grained, reddish brown, dense (SP) SANDY CLAY-dark brown (SC) with white / brown, fine grained sand, very dense waterbearing End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :			
WATER LEVELS--Measured from Top of Casing	Level :			
Static Water Level Symbol ▼	Time :			

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-64		Facility Name Howard R Green Co. Maxim Job # 4370204		Facility Address Frm. Chamberlain Waterloo, Iowa		
Boring Depth (Feet) x Diameter (Inches) 10' X 7"			Drilling Method 3.25 HSA			
Well Contractor Name: Registration #: 40616			Logged by: Mike Miller			
Ground Surface Elevation (ASL)			Top of Casing Elevation (ASL)			
Date & Time Start 9-15-04 11:00		Date & Time End 9-15-04 13:30		UST Number	LUST Number	
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample No.	Sample Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
<div style="text-align: center;">5</div> <div style="text-align: center;">10</div>			1	HSA	2.0	<div style="background-color: #cccccc; width: 100%; height: 100%; border: 1px solid black;"></div> FILL-mostly sand, fine grained, black, concrete at the surface
			2	SS	8.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, brown (SP)
			3	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			4	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			5	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			6	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			7	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			8	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			9	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			10	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			11	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			12	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			13	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			14	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			15	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			16	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			17	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			18	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			19	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			20	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			21	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			22	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			23	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			24	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			25	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			26	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			27	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			28	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			29	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			30	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			31	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			32	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			33	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			34	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			35	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			36	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			37	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			38	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			39	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			40	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			41	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			42	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			43	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			44	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			45	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			46	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			47	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			48	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			49	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			50	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			51	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			52	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			53	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			54	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			55	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			56	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			57	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			58	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			59	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			60	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			61	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			62	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			63	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			64	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			65	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			66	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			67	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			68	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			69	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			70	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			71	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			72	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			73	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			74	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			75	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			76	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			77	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			78	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			79	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			80	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			81	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			82	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			83	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			84	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			85	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			86	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			87	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			88	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			89	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)
			90	SS	10.0	<div style="background-color: #e0e0e0; width: 100%; height: 100%; border: 1px solid black;"></div> SAND-fine grained, light brown (SP)

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-70/MW-	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa
Boring Depth (Feet) x Diameter (Inches) 13' X 8"	Drilling Method 4.25 HSA	
Well Contractor Name: Registration #: 40616	Logged by: Mike Miller	
Ground Surface Elevation (ASL)	Top of Casing Elevation (ASL)	

Date & Time Start 9-15-04 13:30	Date & Time End 9-15-04 17:15	UST Number	LUST Number
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Depth in Feet	Well Construction Details	Blow Count If Applicable	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
0	Concrete			HSA		FILL-mostly sand, fine grained, dark brown, concrete at the surface
2.0	2" Solid PVC Casing			SS		SAND-fine grained, light brown (SP)
5	Bentonite			SS		
10	Sand Pack			SS		waterbearing
12.0	0.010" Slotted PVC Screen			SS		CLAY-light brown with a trace of sand (CL)
14.0						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :						
WATER LEVELS--Measured from Top of Casing	Level :						
Static Water Level Symbol ▼	Time :						

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

Boring/Well # SB-71	Facility Name Howard R Green Co. Maxim Job # 4370204	Facility Address Frm. Chamberlain Waterloo, Iowa				
Boring Depth (Feet) x Diameter (Inches) 10' X 7"		Drilling Method 3.25 HSA				
Well Contractor Name: Registration #: 40616		Logged by: Mike Miller				
Ground Surface Elevation (ASL)		Top of Casing Elevation (ASL)				
Date & Time Start 9-17-04 9:00	Date & Time End 9-17-04 11:30	UST Number		LUST Number		
Depth in Feet	Well Construction Details	Blow Count <small>If Applicable</small>	Sample		PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, etc.)
			No.	Type*		
				HSA		FILL-mostly sand, fine grained, dark brown with pieces of metal, concrete at the surface
				SS	2.0	SAND-fine grained, light brown (SP)
5				SS		
				SS		
				SS		
10					10.0	waterbearing
						End of Boring

*SS (split spoon) HS (hollow stem auger) FA (flight auger) HA (hand auger) AR (air)

OBSERVATIONS:	Date :					
WATER LEVELS--Measured from Top of Casing	Level :					
Static Water Level Symbol ▼	Time :					

APPENDIX G

Calculations

Cancer Risk	SB-13	SB-14	SB-15	SB-16	Mean	N-1	t(95,n-1)	Std Dev	UL95	Statewide Standard	UL95/Statewide Standard
Arsenic	1.73	0.974	1.8	0.799	1.33	3	2.353	0.5	1.93	1.9	1.0E+00
Lead	5.3	8.7	9.1	5.1	7.05	3	2.353	2.1	9.57	400	2.4E-02
Benzo(a)anthracene	0.19	0.1	0.19	0.036	0.13	3	2.353	0.1	0.22	3.1	7.0E-02
Benzo(b)fluoranthene	0.19	0.08	0.19	0.038	0.12	3	2.353	0.1	0.22	3.1	7.0E-02
Benzo(k)fluoranthene	0.25	0.08	0.25	0.05	0.16	3	2.353	0.1	0.28	31	9.2E-03
Benzo(a)pyrene	0.25	0.08	0.25	0.05	0.16	3	2.353	0.1	0.28	0.31	9.2E-01
Chrysene	0.16	0.13	0.16	0.031	0.12	3	2.353	0.1	0.19	310	6.2E-04
Indeno(1,2,3-c,d)pyrene	0.170	0.06	0.17	0.032	0.11	3	2.353	0.1	0.19	3.1	6.2E-02
Benzene	0.00183		0.00073		0.00	1	6.314	0.0	0.0048	58	8.2E-05
Chloroform	0.0009		0.00147		0.00	1	6.314	0.0	0.0030	520	5.7E-06
Tetrachloroethene	0.00097		0.0161		0.01	1	6.314	0.0	0.056	61	9.2E-04
Trichloroethylene	0.00673		0.162		0.08	1	6.314	0.1	0.57	8	7.2E-02
PCB-1254	1.1	0.26	0.26	0.26	0.47	3	2.353	0.4	0.96	1.1	8.8E-01
											3.1E+00
											1.6E-05

Noncancer Health Risk

Arsenic	1.73	0.974	1.8	0.799	1.33	3	2.353	0.51	1.93	22.0	8.8E-02
Mercury	0.01332	0.00723	0.009	0.00416	0.01	3	2.353	0.00	0.013	23	5.6E-04
Barium	34	32	32	25	30.75	3	2.353	3.95	35	5500	6.4E-03
Cadmium	0.53	0.93	1	0.25	0.68	3	2.353	0.35	1.1	39	2.8E-02
Chromium	27	4.9	10	3.5	11.35	3	2.353	10.80	24	230	1.0E-01
Fluoranthene	0.19	0.23	0.19	0.037	0.16	3	2.353	0.09	0.26	2300	1.1E-04
Pyrene	0.26	0.20	0.26	0.051	0.19	3	2.353	0.10	0.31	1700	1.8E-04

Acetone	0.0217	0.0195	0.02	1	6.314	0.0	0.028	70000	3.9E-07
Benzene	0.00183	0.00073	0.00	1	6.314	0.0	0.0048	310	1.5E-05
Chloroform	0.00090	0.00147	0.00	1	6.314	0.0	0.0030	780	3.8E-06
1,1-Dichloroethane	0.00084	0.00084	0.00	1	6.314	0.0	0.00084	7800	1.1E-07
cis 1,2-Dichloroethene	0.00084	0.00483	0.00	1	6.314	0.0	0.015	780	2.0E-05
Ethylbenzene	0.00133	0.00057	0.00	1	6.314	0.0	0.0033	7800	4.3E-07
Tetrachloroethene	0.00097	0.0161	0.01	1	6.314	0.0	0.056	780	7.2E-05
Toluene	0.00277	0.00078	0.00	1	6.314	0.0	0.0081	16000	5.0E-07
1,1,1-Trichloroethane	0.0109	0.0404	0.03	1	6.314	0.0	0.12	16000	7.4E-06
Trichloroethylene	0.00673	0.162	0.08	1	6.314	0.1	0.57	23	2.5E-02
Trichlorofluoromethane	0.00076	0.0005	0.00	1	6.314	0.0	0.0015	23000	6.3E-08
									2.5E-01

Cancer Risk	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Mean	N-1	t(95,n-1)	Std Dev	UL95	Statewide Standard	UL95/Statewide Standard
Arsenic	0.971					1.63		1.30	1	6.314	0.5	3.4	1.9	2
Lead	15					55		35.00	1	6.314	28.3	160	400	0
Benzo(a)anthracene	0.035	0.00054	0.77		0.19		5.24	1.25	4	2.132	2.3	3.4	3.1	1
Benzo(b)fluoranthene	0.037	0.0004	0.77		0.19		3.93	0.99	4	2.132	1.7	2.6	3.1	1
Benzo(k)fluoranthene	0.049	0.00052	1		0.25		3.72	1.00	4	2.132	1.6	2.5	31	0
Benzo(a)pyrene	0.039	0.00052	1		0.25		4.8	1.22	4	2.132	2.0	3.2	0.31	10
Bis(2-ethylhexyl)phthalate	0.032	0.00054	26.6		0.17		0.034	5.37	4	2.132	11.9	17	170	0
Carbazole	0.039	0.00043	0.86		0.21		0.05	0.23	4	2.132	0.4	0.58	120	0
Chrysene	0.03	0.0054	0.64		0.16		4.7	1.11	4	2.132	2.0	3.0	310	0
Dibenzo(a,h)anthracene	0.077	0.00081	1.6		0.39		0.27	0.47	4	2.132	0.7	1.1	0.31	4
Indeno(1,2,3-c,d)pyrene	0.031	0.00035	0.69		0.17		2.99	0.78	4	2.132	1.3	2.0	3.1	1
Isophorone	0.058	0.00064	1.3		0.31		0.061	0.35	4	2.132	0.5	0.87	1200	0
Benzene	0.00056	0.00084	0.00225		0.00171		3.04	0.6	4.0	2.1	1.4	1.9	58	0
Tetrachloroethene	0.00067	0.0007	0.00116		0.00067		0.68	0.14	4	2.1	0.3	0.43	61	0
Trichloroethylene	0.00097	0.00869	0.0727		0.00606		17.2	3.46	4	2.1	7.7	11	8	1

20 1.0E-04

Noncancer Health Risk

Arsenic	0.97					1.630		1.30	1	6.314	0.5	3.4	22	0.15
Mercury	0.0113					0.0126		0.01	1	6.314	0.0	0.016	23	0.00
Barium	27					46		36.50	1	6.314	13.4	96	5500	0.02
Cadmium	0.24					1.2		0.72	1	6.314	0.7	3.8	39	0.10
Chromium	4.6					11		7.80	1	6.314	4.5	28	230	0.12
Acenaphthene	0.063	0.00068	1.4		0.33		0.15	0.39	4	2.132	0.6	0.94	3400	0.00
Anthracene	0.039	0.00043	0.86		0.21		1	0.42	4	2.132	0.5	0.87	17000	0.00
Bis(2-ethylhexyl)phthalate	0.032	0.00054	26.6		0.17		0.034	5.37	4	2.132	11.9	17	1200	0.01
Fluoranthene	0.036	0.0013	0.77		0.19		11.8	2.56	4	2.132	5.2	7.5	2300	0.00

Fluorene	0.052	0.00055	1.1	0.27	0.21	0.33	4	2.132	0.4	0.75	2300	0.00
Isophorone	0.058	0.00064	1.3	0.31	0.061	0.35	4	2.132	0.5	0.87	12000	0.00
Pyrene	0.049	0.00120	1.10	0.260	8.490	1.98	4	2.132	3.7	5.5	1700	0.00
Acetone	0.0293	0.0290	0.0058	0.01870	31.9	6.40	4	2.132	14.3	20	70000	0.00
Benzene	0.00056	0.00084	0.00225	0.00171	3.04	0.61	4	2.1	1.4	1.9	310	0.01
cis 1,2-Dichloroethene	0.00097	0.00762	0.00676	0.00098	1	0.20	4	2.1	0.4	0.63	780	0.00
trans 1,2-Dichloroethene	0.00077	0.00143	0.00082	0.00078	0.79	0.16	4	2.1	0.4	0.50	1600	0.00
Ethylbenzene	0.00056	0.00075	0.0011	0.00067	0.66	0.13	4	2.1	0.3	0.41	7800	0.00
Tetrachloroethene	0.00067	0.0007	0.00116	0.00067	0.68	0.14	4	2.1	0.3	0.43	780	0.00
Toluene	0.00072	0.00125	0.00259	0.00179	2.21	0.44	4	2.1	1.0	1.4	16000	0.00
Trichloroethylene	0.00097	0.00869	0.0727	0.00606	17.2	3.46	4	2.1	7.7	11	23	0.47
1,2,4-Trimethylbenzene	0.0051	0.0054	0.0084	0.0052	5.2	1.04	4	2.1	2.3	3.3	3900	0.00
Xylenes	0.0051	0.0054	0.0056	0.0052	5.2	1.04	4	2.1	2.3	3.3	16000	0.00
												0.89

Cancer Risk	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Mean	N-1	t(95,n-1)	Std Dev	UL95	Statewide Standard	UL95/Statewide Standard
Arsenic	0.721					19.3		10.01	1	6.314	13.1	68.7	1.9	36
Lead	5.2					219		112.10	1	6.314	151.2	790	400	2
Benzo(a)anthracene	0.19	0.036	0.52		0.042	0.19	0.036	0.17	4	2.132	0.2	0.3	3.1	0
Benzo(b)fluoranthene	0.190	0.0390	0.40		0.04	0.080	0.038	0.13	4	2.132	0.1	0.3	3.1	0
Benzo(k)fluoranthene	0.25	0.051	0.4		0.059	0.1	0.051	0.15	4	2.132	0.1	0.3	3.1	0
Benzo(a)pyrene	0.25	0.051	0.4		0.059	0.06	0.051	0.15	4	2.132	0.1	0.3	0.31	1
Bis(2-ethylhexyl)phthalate	0.17	0.033	0.17		0.038	0.26	0.033	0.12	4	2.132	0.1	0.2	170	0
Chrysene	0.16	0.031	0.58		0.035	0.17	0.031	0.17	4	2.132	0.2	0.4	310	0
Indeno(1,2,3-c,d)pyrene	0.170	0.032	0.4		0.037	0.037	0.032	0.12	4	2.132	0.1	0.3	3.1	0
N-Nitrosodiphenylamine	0.18	0.035	0.18		0.04	0.26	0.035	0.12	5	2.015	0.1	0.20	500	0.00
Benzene	0.00057	0.000057	0.00191		0.00067		0.63	0.1	4.0	2.1	0.3	0.4	58	0
Tetrachloroethene	0.00067	0.00068	0.00126		0.00079		0.67	0.13	4	2.1	0.3	0.42	61	0
Trichloroethylene	0.00098	0.00114	0.0786		0.00120		7.24	1.46	4	2.1	3.2	5	8	1
														40

2.0E-04

Noncancer Health Risk

Arsenic	0.721					19.3		10.01	1	6.314	13.1	68.7	22	3.12
Mercury	0.0045					0.0049		0.00	1	6.314	0.0	0.006	23	0.00
Barium	22					951		486.50	1	6.314	656.9	3419	5500	0.62
Cadmium	0.25					32		16.13	1	6.314	22.5	116.4	39	2.98
Chromium	3.5					110		56.75	1	6.314	75.3	393	230	1.71
Silver	0.59					5.1		2.85	1	6.314	3.2	17	390	0.04
Cyanide	0.11	0.11	0.13	0.13	0.13	8.6	0.11	1.33	6	1.943	3.2	3.7	1600	0.00
Acenaphthene	0.33	0.066	0.32		0.13	2.72	0.065	0.61	5	2.015	1.0	1.46	3400	0.00
Anthracene	0.21	0.041	0.21		0.046	0.32	0.04	0.14	5	2.015	0.1	0.24	17000	0.00
Bis(2-ethylhexyl)phthalate	0.17	0.033	0.17		0.038	0.26	0.033	0.12	5	2.015	0.1	0.20	1200	0.00
Dibenzofuran	0.25	0.049	0.25		0.09	2.23	0.049	0.49	5	2.015	0.9	1.2	240	0.00

Fluoranthene	0.190	0.0380	1.00	0.04	0.510	0.05	0.31	5	2.015	0.4	0.6	2300	0.00
Fluorene	0.270	0.05500	0.26	0.064	0.96	0.055	0.28	5	2.015	0.3	0.56	2300	0.00
2-Methylnaphthalene	0.33	0.067	0.32	0.077	1.78	0.066	0.44	5	2.015	0.7	0.99	240	0.00
Naphthalene	0.37	0.076	0.37	0.088	3.81	0.075	0.80	5	2.015	1.5	2.02	1100	0.00
N-Nitrosodiphenylamine	0.18	0.035	0.18	0.04	0.26	0.035	0.12	5	2.015	0.1	0.20	1200	0.00
Pyrene	0.260	0.05200	0.89	0.060	0.420	0.052	0.29	5	2.015	0.3	0.6	1700	0.00
2,4-Dichlorophenol	0.380	0.07700	0.38	0.089	0.380	0.077	0.23	5	2.015	0.2	0.4	180	0.00
Acetone	0.0172	0.0298	0.0437	0.00980		32.6	6.54	4	2.132	14.6	20	70000	0.00
Benzene	0.00057	0.000057	0.00191	0.00067		0.63	0.13	4	2.1	0.3	0.4	310	0.00
cis 1,2-Dichloroethene	0.00098	0.00099	0.00475	0.0012		0.98	0.20	4	2.1	0.4	0.61	780	0.00
Ethylbenzene	0.00057	0.00057	0.00058	0.0436		0.64	0.14	4	2.1	0.3	0.41	7800	0.00
Tetrachloroethene	0.00067	0.00068	0.00126	0.00079		0.67	0.13	4	2.1	0.3	0.42	780	0.00
Toluene	0.00072	0.00073	0.00100	0.00209		1.60	0.32	4	2.1	0.7	1.0	16000	0.00
1,2,4-Trichlorobenzene	0.00520	0.00520	0.00520	0.00940		5.20	1.05	4	2.1	2.3	3.3	780	0.00
Trichloroethylene	0.00098	0.00114	0.0786	0.00120		7.24	1.46	4	2.1	3.2	5	23	0.20
1,2,4-Trimethylbenzene	0.0052	0.0052	0.0052	0.298		5.2	1.10	4	2.1	2.3	3.3	3900	0.00
1,2,5-Trimethylbenzene	0.0052	0.0052	0.0052	0.101		5.2	1.06	4	2.1	2.3	3.3	3900	0.00
Xylenes	0.0052	0.0052	0.0052	0.0293		5.2	1.05	4	2.1	2.3	3.3	16000	0.00
													8.70

GW AOC1-1

Cancer Risk	MW-3	Statewide Standard	UL95/Statewide Standard
Chloromethane	0.00025	0.013	0.019
Tetrachloroethene	0.00067	0.005	0.13
Trichloroethylene	0.0159	0.005	3.2
			3.3
			1.7E-05

Noncancer Health Risk

Mercury	0.000042	0.002	0.021
Barium	0.087	2.0	0.044
Chloromethane	0.00025	0.028	0.0089
cis 1,2-Dichloroethene	0.00091	0.07	0.013
Tetrachloroethene	0.00067	0.070	0.010
1,1,1-Trichloroethane	0.00906	0.20	0.045
Trichloroethylene	0.0159	0.005	3.18
			3.32

Cancer Risk	MW-1	Statewide Standard	UL95/Statewide Standard	
Tetrachloroethene	0.00101	0.005	0.20	
1,1,2-Trichloroethane	0.00020	0.005	0.040	
Trichloroethylene	0.607	0.005	120	
			120	6.0E-04

Noncancer Health Risk

1,1-Dichloroethane	0.00436	0.07	0.062
cis 1,2-Dichloroethene	0.155	0.07	2.2
trans 1,2-Dichloroethene	0.00097	0.10	0.010
Tetrachloroethene	0.00101	0.070	0.014
1,1,1-Trichloroethane	0.00300	0.20	0.015
1,1,2-Trichloroethane	0.00020	0.028	0.0071
Trichloroethylene	0.607	0.005	120
			120

Cancer Risk	MW-1	Nonprotected Groundwater Standard	UL95/Nonprotected Groundwater Standard	
Tetrachloroethene	0.00101	0.067	0.015	
1,1,2-Trichloroethane	0.00020	0.014	0.014	
Trichloroethylene	0.607	0.009	69	
			69	3.5E-04

Noncancer Health Risk

1,1-Dichloroethane	0.00436	0.35	0.012
cis 1,2-Dichloroethene	0.155	0.35	0.44
trans 1,2-Dichloroethene	0.00097	0.70	0.0014
Tetrachloroethene	0.00101	0.350	0.0029
1,1,1-Trichloroethane	0.00300	7.00	0.00043
1,1,2-Trichloroethane	0.00020	0.140	0.0014
Trichloroethylene	0.607	0.011	55
			56

Cancer Risk	MW-7	MW-8	MW-20	Mean	N-1	t(95,n-1)	Std Dev	UL95	Statewide Standard	UL95/Statewide Standard
Arsenic	0.00072		0.00070	0.00	1	6.314	0.00	0.00077	0.01	0.077
Bis(2-ethylhexyl)phthalate	0.00408		0.00412	0.004	1	6.314	0.00	0.0042	0.013	0.33
Chloromethane	0.00024		0.00036	0.00	1	6.314	0.00	0.00068	0.013	0.052
1,1-Dichloroethene	0.0120		0.0119	0.01	1	6.314	0.00	0.012	0.007	1.8
Tetrachloroethene	0.0199		0.0203	0.020	1	6.314	0.00	0.021	0.005	4.3
1,1,2-Trichloroethane	0.00031		0.00015	0.000	1	6.314	0.00	0.00074	0.005	0.15
Trichloroethylene	0.0594		0.0578	0.059	1	6.314	0.00	0.064	0.005	13

19 9.7E-05

Noncancer Health Risk

Arsenic	0.00072		0.00070	0.00	1	6.314	0.00	0.00077	0.01	0.077
Mercury	0.000046		0.000051	0.00	1	6.314	0.00	0.000064	0.002	0.032
Barium	0.183		0.184	0.18	1	6.314	0.00	0.19	2.0	0.093
Cyanide	0.0952	0.0494	0.0948	0.08	2	2.92	0.03	0.12	0.20	0.62
Bis(2-ethylhexyl)phthalate	0.00408		0.00412	0.00	1	6.314	0.00	0.0042	0.14	0.030
Chloromethane	0.00024		0.00036	0.00	1	6.314	0.00	0.00068	0.028	0.024
1,1-Dichloroethane	0.0157		0.0153	0.02	1	6.314	0.00	0.017	0.07	0.24
1,1-Dichloroethene	0.0120		0.0119	0.01	1	6.314	0.00	0.012	0.35	0.035
cis 1,2-Dichloroethene	0.0748		0.0735	0.07	1	6.314	0.00	0.078	0.07	1.1
trans 1,2-Dichloroethene	0.00061		0.00063	0.00	1	6.314	0.00	0.00068	0.10	0.0068
Tetrachloroethene	0.0199		0.0203	0.020	1	6.314	0.00	0.021	0.070	0.31
1,1,1-Trichloroethane	0.0306		0.0302	0.030	1	6.314	0.00	0.032	0.20	0.16
1,1,2-Trichloroethane	0.00031		0.00015	0.000	1	6.314	0.00	0.00074	0.028	0.026
Trichloroethylene	0.0594		0.0578	0.059	1	6.314	0.00	0.064	0.005	13

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Cancer Risk	MW-10	Statewide Standard	UL95/Statewide Standard
Arsenic	0.00750	0.01	0.75
Chloroform	0.00058	0.08	0.0073
Chloromethane	0.00025	0.013	0.019
1,1-Dichloroethene	0.00126	0.007	0.18
Tetrachloroethene	0.0127	0.005	2.5
Trichloroethylene	0.0307	0.005	6.1
			10
			4.8E-05

Noncancer Health Risk

Arsenic	0.00750	0.01	0.75
Mercury	0.000061	0.002	0.031
Barium	0.025	2.0	0.013
Chromium	0.0091	0.10	0.091
Cyanide	0.0093	0.20	0.047
Chloroform	0.00058	0.08	0.0073
Chloromethane	0.00025	0.028	0.0089
1,1-Dichloroethane	0.00273	0.07	0.039
1,1-Dichloroethene	0.00126	0.35	0.0036
cis 1,2-Dichloroethene	0.00145	0.07	0.021
Tetrachloroethene	0.0127	0.070	0.18
1,1,1-Trichloroethane	0.0446	0.20	0.22
Trichloroethylene	0.0307	0.005	6.1
			7.6

	Cancer Group	SFo	RfDo	Study Date	Drinking Water MCL (mg/L)	Lifetime Health Advisory Level (mg/L)	Protected GW (mg/L)	Nonprotected GW (mg/L)	Noncancer Health Risk Values for Carcinogens Protected Groundwater (mg/L)	Noncancer Health Risk Values for Carcinogens Nonprotected Groundwater (mg/L)
Metals										
Arsenic	A	1.50E+00	3.00E-04	1998	0.01		0.00012	0.0023	0.0021	0.011
Mercury	D		3.00E-04		0.002	0.002	0.0021	0.011		
Barium	D		7.00E-02	1994	2	2	0.49	2.5		
Cadmium	B1		5.00E-04	1997	0.005	0.005	0.0035	0.018		
Chromium	A		3.00E-03	1958	0.1		0.021	0.11		
Lead	B2				0.015					
Selenium	D		5.00E-03	1989	0.05	0.05	0.035	0.18		
VOCs										
Carbon Disulfide	D		1.00E-01	1981			0.70	3.5		
Chloroethane										
Chloroform	B1	6.10E-03	1.00E-02	1985	0.08	0.07	0.029	0.57	0.070	0.35
Chloromethane	B	1.30E-02	4.00E-03				0.013	0.27	0.028	0.14
2-Chlorotoluene										
1,1,-Dichloroethane	C		1.00E-01	1984			0.070	0.35		
1,1-Dichloroethene	C	6.00E-01	5.00E-02	1984	0.007		0.035	0.18	0.350	1.75
cis-1,2-Dichloroethene	D		1.00E-02	1995	0.07	0.07	0.070	0.35		
trans-1,2-Dichloroethene	D		2.00E-02	1975	0.1	0.1	0.14	0.70		
1,2-Dichloropropane	B2	6.80E-02		1987	0.005		0.0026	0.051		
Hexachlorobutadiene	C	7.80E-02	2.00E-04	1993		0.001	0.0014	0.0070	0.0014	0.0070
Tetrachloroethene	D	5.20E-02	1.00E-02	1985	0.005	0.01	0.0034	0.067	0.070	0.35
Toluene	D		2.00E-01	1989	1.0	1.0	1.4	7.0		
1,1,1-Trichloroethane	D		2.00E-01	1988	0.20	0.20	1.4	7.0		
1,1,2-Trichloroethane	C	5.70E-02	4.00E-03	1985	0.005	0.003	0.0028	0.014	0.028	0.14
Trichloroethylene	B2	4.00E-01	3.00E-04		0.005		0.00044	0.0088	0.0021	0.011
SVOCs										
Bis(2-ethylhexyl)phthalate	B2	1.40E-02	2.00E-02	1982			0.013	0.25	0.140	0.70
Di-n-butylphthalate										
Others										
Cyanide	D		2.00E-02	1979	0.2	0.2	0.14	0.70		

*Concentrations in **BOLD TYPE** are used for standard.

	Cancer Group	SFo	RfDo	ABS	Study Date	Statewide Standard-Range 1 (mg/kg)	Noncancer Health Risk Values for Carcinogens Residential (mg/kg)	Non-Residential <2 (mg/kg)	Noncancer Health Risk Values for Carcinogens Nonresidential <2' (mg/kg)	Non-Residential >2 (mg/kg)	Noncancer Health Risk Values for Carcinogens Nonresidential >2' (mg/kg)
Metals											
Arsenic	A	1.50E+00	3.00E-04	0.03	1998	1.9	22	180	110	1,700	110
Barium	D		7.00E-02	0	1994	5,500		27,000		27,000	
Cadmium	B1		5.00E-04	0.001	1997	39		190		190	
Chromium	A		3.00E-03	0	1958	230		1,200		1,200	
Lead	B2			0		400		1,100		1,100	
Mercury	D		3.00E-04	0		23		120		120	
Silver	D		5.00E-03	0	1935	390		1,900		1,900	
VOCs											
Acetone	D		9.00E-01	0	1991	70,000		350,000		350,000	
Benzene	A	5.50E-02	4.00E-03	0	1999	58	310	5,800	1,500	49,000	1,500
Benzyl Alcohol	D		3.00E-01	0	1988	23,000		120,000		120,000	
Chlorodibromomethane											
Chloroethane											
Chloroform	B1	6.10E-03	1.00E-02	0	1985	520	780	52,000	3,900	440,000	3,900
2-Chlorotoluene											
4-Chlorotoluene											
1,1-Dichloroethane	C		1.00E-01	0	1984	7,800		39,000		39,000	
cis-1,2-Dichloroethene	D		1.00E-02	0	1995	780		3,900		3,900	
trans 1,2-Dichloroethene	D		2.00E-02	0	1985	1,600		7,700		7,700	
1,2-Dichloropropane	B2	6.80E-02		0	1987	47		4,700		40,000	
Ethylbenzene	B2		1.00E-01	0	1956	7,800		39,000		39,000	
Isopropylbenzene											
Methyl Ethyl Ketone	D		6.00E-01	0	1975	47,000		230,000		230,000	
Methyl Isobutyl Ketone	D		8.00E-02	0	1993	6,300		31,000		31,000	
n-Propylbenzene											
Toluene	D		2.00E-01	0	1989	16,000		77,000		77,000	
Tetrachloroethene	B	5.20E-02	1.00E-02	0	1985	61	780	6,100	3,900	52,000	3,900
1,2,4-Trichlorobenzene	D		1.00E-02	0	1981	780		3,900		3,900	
1,1,1-Trichloroethane	D		2.00E-01	0	1993	16,000		77,000		77,000	
Trichloroethylene	B2	4.00E-01	3.00E-04	0		8.0	23	800	120	6,800	120
Trichlorofluoromethane	D		3.00E-01	0	1978	23,000		120,000		120,000	
1,2,4-Trimethylbenzene	D		5.00E-02	0	1995	3,900		19,000		19,000	
1,3,5-Trimethylbenzene	D		5.00E-02	0	1995	3,900		19,000		19,000	
Xylenes	D		2.00E-01	0	1986	16,000		77,000		77,000	
SVOCs											
Acenaphthene	D		6.00E-02	0.13	1989	3,400		18,000		17,000	
Acenaphthylene											
Anthracene	D		3.00E-01	0.13	1989	17,000		92,000		84,000	
Benzo(a)anthracene	B2	7.30E-01		0.13		3.1		230		2,700	
Benzo(b)fluoranthene	B2	7.30E-01		0.13		3.1		230		2,700	

Benzo(k)fluoranthene	B2	7.30E-02		0.13		31		2,300		27,000	
Benzo(a)pyrene	B2	7.30E+00		0.13	1967	0.31		23		270	
Benzo(g,h,i)perylene											
Bis(2-ethylhexyl)phthalate	B2	1.40E-02	2.00E-02	0.10	1982	170	1,200	14,000	6,500	150,000	6,000
n-Butylbenzene											
sec-Butylbenzene											
tert-Butylbenzene											
Carbazole	B2	2.00E-02		0.10	1986	120		9,600		100,000	
Chrysene	B2	7.30E-03		0.13		310		23,000		270,000	
Dibenzo(a,h)anthracene	B2	7.30E+00		0.13		0.31		23		270	
Dibenzofuran	D		4.00E-03	0.10	1940	240		1,300		1,200	
Dimethylphthalate	D		1.00E+01	0.10	1994	610,000		3,200,000		3,000,000	
Di-n-butylphthalate											
2,4-Dinitrotoluene	D	6.80E-01	2.00E-03	0.10	1985	120		650		600	
Fluoranthene	D		4.00E-02	0.13	1988	2,300		12,000		11,000	
Fluorene	D		4.00E-02	0.13	1988	2,300		12,000		11,000	
Indeno(1,2,3-c,d)pyrene	B2	7.30E-01		0.13		3.1		230		2,100	
Isophorone	C	9.50E-04	2.00E-01	0.10	1986	1,200	12,000	6,500	65,000	6,000	60,000
2-Methylnaphthalene	D		4.00E-03	0.10	1997	240		1,300		1,200	
Naphthalene	C		2.00E-02	0.13	1980	1,100		6,100		5,600	
N-Nitrosodiphenylamine	B2	4.90E-03	2.00E-02	0.10	1979	500	1,200	39,000	6,500	430,000	6,000
Pentachlorophenol	B2	3.00E-02	1.20E-01	0.10	1989	81	7,300	6,400	39,000	69,000	36,000
Phenanthrene											
Pyrene	D		3.00E-02	0.13	1989	1,700		9,200		8,400	
Phenol	D		3.00E-01	0.10	1997	18,000		97,000		89,000	
2,4-Dichlorophenol	D		3.00E-03	0.10	1985	180		1,000		890	
Other											
Cyanide	D		2.00E-02	0	1979	1,600		7,700		7,700	
PCBs	B2	2.00E+00		0.14	1996	1.1		83		1,000	