FILE

Phase II
Environmental Site Assessment

21st and N Street Redevelopment
Lincoln, Nebraska

Prepared For

The City of Lincoln
Community Development

Report Completion Date: November 19, 2012

Olsson Project No. 012-2189

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1.0 EXECUTIVE SUMMARY

This section summarizes the findings of the Phase II Environmental Site Assessment (ESA) conducted for the proposed redevelopment of the property at the southeast corner of the intersection of 21st and N Streets in Lincoln, Nebraska (see Figures 1 and 2). The Phase II ESA included soil and groundwater sampling to further evaluate the recognized environmental conditions (RECs) and Historic Recognized Environmental Conditions (HRECs) identified in the July 6, 2012 Phase I ESA (see Figure 3). The conditions include:

RECs

- Eight LUST sites due to their proximity to the Assessment Property. The potential exists for petroleum contamination to have impacted groundwater which may have migrated onto the Assessment Property. Vapor intrusion of petroleum products may be associated with these releases.
- The former car dealership at 2101 N Street. Further investigation is required as noted by the NDEQ LUST listing and is recommended for the hydraulic lifts.
- The filling station located in the southwest corner of Lot 2 in the 1928 and 1949 Sanborn Fire Insurance maps.
- The stained concrete floors in the City of Lincoln Parks and Recreation maintenance areas at 240 and 244 S 21st Street.
- The fuel tanks and dispenser island on Lot 2 due to the storage and dispensing of petroleum products.

HRECs

- The two petroleum related spills at the City Parks Department Refueling area.

The Phase II field investigation, which was conducted on September 19 and 20, and November 5, 2012, included collection and laboratory analysis of soil and groundwater samples from thirteen locations. The results of the assessment indicate the following:

Soil Sample Results:

- No petroleum products or VOCs were detected in any of the soil samples retrieved from the project site.

Groundwater Sample Results:

- Petroleum Products were detected in TMW-3 only. Low level concentrations of ethylbenzene, total xylenes, TPH (gasoline range), and TEH (diesel range) were detected in the laboratory analysis. No concentrations exceeded Risk Based Corrective Action (RBCA) screening levels.

- Three VOCs were detected in the groundwater samples. MTBE and sec-butylbenzene were detected a levels below the NDEQ Voluntary Cleanup Program (VCP) remediation goals. 1,2-DCA was detected at TMW-5, TMW-6 and in the duplicate samples from TMW-2. The concentration of 1,2-DCA was greater than the VCP remediation goal of 0.005 mg/l for ingestion of groundwater but below the remediation goal for soil vapor intrusion.

The soil and groundwater analytical results presented in this Phase II ESA indicate the presence of petroleum and VOC contaminants. With the exception of 1,2-DCA, the contaminant levels detected were below NDEQ RBCA and VCP remediation goals. The detection of 1,2-DCA indicate that the water on site is not suitable as a source of drinking water but that there is levels are below the required cleanup standards for soil vapor intrusion.

This report should be read in its entirety and an understanding of Phase II ESA findings should not be based solely on the executive summary.

2.0 INTRODUCTION

This report summarizes the Phase II ESA performed by Olsson Associates (Olsson) for the proposed redevelopment of the property at the southeast corner of the intersection of 21st and N Streets in Lincoln, Nebraska (City) (see Figure 1 and 2 in Appendix A) (hereinafter referred to as the "assessment property"). The Assessment Property consists of four separate buildings located on three lots (Lots 1, 2 and 4) in the southeast corner of 21st and N Streets.

- Lot 1 is currently owned by the Lower Platte South Natural Resources and is vacant. Most recently, it had been leased to the People's City Mission.

- Lots 2 and 4 are owned by the City of Lincoln. Lot 2 is used for vehicle maintenance, refueling, and by the forestry and landscaping departments. Lot 4 is used as office space for the City of Lincoln Parks and Recreation and Athletics.

Figure 1 in Appendix A depicts the assessment property setting, the site layout, and Phase II ESA boring locations. Olsson has been authorized to perform this work by Mr. Ernie Castillo, of the City of Lincoln, Community Development Office.

This report is certified to, can be relied upon by, and has been prepared for the exclusive use of the following entities: the City of Lincoln, Nebraska.

3.0 PURPOSE

The purpose of conducting the Phase II ESA is to evaluate the multiple RECs and two HRECs identified in the Phase I ESA (Olsson Associates, 2012). The conditions include:

RECs

- Eight LUST sites due to their proximity to the Assessment Property. The potential exists for petroleum contamination to have impacted groundwater which may have migrated onto the Assessment Property. Vapor intrusion of petroleum products may be associated with these releases.
- The former car dealership at 2101 N Street. Further investigation is required as noted by the NDEQ LUST listing and is recommended for the hydraulic lifts.
- The filling station located in the southwest corner of Lot 2 in the 1928 and 1949 Sanborn Fire Insurance maps.
- The stained concrete floors in the City of Lincoln Parks and Recreation maintenance areas at 240 S 21st Street.
- The fuel tanks and dispenser island on Lot 2 due to the storage and dispensing of petroleum products.

HRECs

- The two petroleum related spills at the City Parks Department Refueling area.

4.0 FIELD OPERATIONS

Phase II ESA field operations were conducted on September 19, 20, and November 5, 2012. Field operations included drilling seven bores for soil samples and an additional six bores for sampling of groundwater with temporary well screens. At S-2/TMW-2, both soil and groundwater samples were retrieved. The boring locations are depicted on Figures 3 and 4 Boring Location Maps, Appendix A. Each boring/sampling location rationale is discussed below.

- S-1 and S-2/TMW-2: The facility at Lot 2 has and continues to be a maintenance and fueling center the City's Parks and Recreation Department
- S-3, S-4, TMW-3: Presence of a gas station in the southwest corner of Lot 2 in the 1930s and 1940s
- S-5, S-6, S-7 and TMW-4: Lot 1 was a car dealership with auto repair and maintenance operations
- TMW-1: Down-gradient of dispenser island and underground storage tanks
- TMW-5, TMW-6, TMW-7: Sampled groundwater near TMW-3 on November 5, 2012 to verify sample results from samples collected in September.

The contaminants of concern at the assessment property are volatile organic compounds (VOCs) and total extractable hydrocarbons (TEH) associated with documented and potential petroleum releases.

Soil samples were continuously sampled from the surface to depths ranging from 16 to 25 feet below ground level (bgl). Bores that were intended for soil sampling reached depths of 16 feet, whereas boreholes utilized for sampling shallow groundwater reached depths from 21-27 feet bgl. Soil sampling was completed using split spoon samplers. The soil samples were field screened using a photoionization detector (PID) and visual observations. The soil interval exhibiting the highest reading or visual observations of contamination was submitted for laboratory analysis of VOCs and TEH.

For the groundwater sample locations, temporary two-inch diameter PVC wells with appropriate sand pack were installed in each soil boring. A groundwater sample was collected from each of the four groundwater boring locations and analyzed at a laboratory for hydrocarbons using EPA Methods OA-1 and OA-2. VOC analysis was completed utilizing EPA method 8260.

Quality assurance/quality control samples included one blind duplicate of a groundwater sample, and a trip blank analyzed for VOCs. The soil cuttings from drilling were stockpiled on plastic for disposal. Excess soil cuttings, PVC well materials, used sample liners, latex gloves, labels, and paper towels were collected and disposed in a permitted municipal solid waste landfill.

4.1 Borehole Abandonment

Following completion of each boring, the boreholes were abandoned by filling with bentonite chips to two feet below the ground surface. Excess soil cuttings were used to fill the top two feet of the boreholes. At locations where the borehole advanced through concrete, concrete was placed to cover the surface void made by the borehole.

4.2 Decontamination Procedures

Hollow stem auger, split spoons and groundwater well installation equipment was decontaminated between each sample. For groundwater sample collection, dedicated sample tubing was used at each temporary well and therefore no decontamination was needed.

4.3 Investigation Derived Waste

A limited amount of investigation derived wastes (IDW) was generated during the sampling event. IDW included drill cuttings, groundwater sample collection tubing, paper towels, and latex gloves. IDW from the site was disposed of in a permitted municipal solid waste landfill.

5.0 GEOLOGY & HYDROGEOLOGY

During drilling subsurface characteristics were assessed and boring logs were prepared that include a description of materials encountered, any indicators of contamination, and PID readings (see Appendix B). Subsurface stratigraphy at the site consisted of silty clays, sand, sandy clay, and clayey sand. Field screening with the PID produced very low level detections between 0.0 and 1.1 relative response units. Readings at this level are typically considered to be representative of background conditions.

6.0 ANALYTICAL RESULTS

All samples were laboratory analyzed by ESC Lab Sciences in Mt. Juliet, Tennessee. VOC analysis was completed utilizing method 8260B and TEH using methods OA-1 and OA-2. The complete laboratory report is enclosed in Appendix C and the results are discussed in the following subsections.

6.1 Soil Analytical Results

Nine soil samples and one duplicate sample were analyzed for hydrocarbon and VOC content. The soil samples submitted were those with the highest readings at each borehole as determined with the PID. Two samples were tested from both S-1 and S-2, and one sample from the remaining locations. No constituents of either category tested were detected in any of the samples submitted to the laboratory.

6.2 Groundwater Analytical Results for Petroleum Constituents

Four petroleum compounds were detected in the groundwater samples, all from TMW-3 (Table 1). Concentrations of the detected petroleum constituents are compared to risk-based screening levels (RBSLs) established in the NDEQ Environmental Guidance Document - Risk Based Corrective Action (RBCA) at Petroleum Release Sites (May 2009). The RBSLs for contaminated groundwater include consideration for sites intended for residential and industrial development. Values from Table 8-2 represent the most conservative screening levels as these are intended where groundwater is extracted via municipal, domestic and hand-pump wells. As displayed in the Table 1, each of the four detected constituents were substantially below the RBSLs set by the NDEQ.

Table 1 - Groundwater Sample Results - TEH Constituent Detections
Sample Collection Date: 9/19/2012-9/20/2012

Sample ID		TMW-3	Detection Limit	NDEQ RBSL[1]
Parameter	*Method*	*mg/l*	*mg/l*	*mg/l*
Ethylbenzene	OA1	**0.00072**	0.0005	0.7
Total Xylenes	OA1	**0.002**	0.0015	10.0
TPH - low fraction (gasoline range)	OA1	**0.61**	0.1	NS
TEH (as diesel)	OA2	**0.74**	0.1	10

1 – NDEQ RBCA Table 8-2: Ground Water Ingestion Exposure Pathways, Groundwater Flow Rate <0.1 ft/day. Value represents the most conservative RBSL value.
NS – Regulatory Limit not specified.
Detected compounds in Bold
mg/l = milligrams per liter

6.3 Groundwater Analytical Results for Volatile Organic Compounds

Concentrations of the detected petroleum constituents were compared to the NDEQ Voluntary Cleanup Program (VCP) remediation goals (RGs). The RGs for contaminated groundwater include consideration for sites intended for residential and industrial development. Table 2 lists the detected VOC constituents and their respective RGs. Detections occurred at TMW-2 and TMW-3. MTBE in TMW-2 and sec-butylbenzene in TMW-3 were lower than the NDEQ RGs.

Table 2 - Groundwater Sample Results - VOC Constituent Detections
Sample Collection Date: 9/19/2012-9/20/2012

Sample ID		TMW-2	TMW-3	D-1 Duplicate of TW-2	Detection Limit	VCP RG
Parameter	*Method*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*
MTBE	6010B	**0.0012**	BDL	BDL	0.001	0.0039
sec-Butylbenzene	6010B	BDL	**0.0016**	BDL	0.001	0.37
1,2-Dichloroethane	6010B	BDL	BDL	**0.0075**	0.001	0.005

BDL = Below Detection Limit
Detected compounds in Bold
mg/l = milligrams per liter

6.4 Quality Assurance/Quality Control (QA/QC) results

In accordance with the Phase II ESA proposal, one duplicate groundwater sample was collected at temporary well TMW-2. As noted in Table 2, 1,2-Dichloroethane (1,2-DCA) was detected in the duplicate sample but not in the investigative sample. The reported concentration of 0.0075 mg/l is above the VCP RG of 0.005 of mg/l. MTBE was only detected in the investigative, and sec-Butylbenzene was only detected in the duplicate sample. These discrepancies were re-evaluated by the laboratory and the field crew was asked if there were any irregularities noted during sampling. Nothing of note was reported by the laboratory or the field crews.

To clarify the duplicate results, three additional temporary monitoring wells (TMW-5, TMW-6 and TMW-7) were installed near TMW-2 and sampled on November 5, 2012. Table 3 presents the results of the analyses. The results confirm the presence of MTBE and 1,2-DCA in groundwater at the site. The results were compared to the NDEQ VCP remediation goals for both ingestion

and soil vapor intrusion. Based on the analyses, the levels of MTBE and 1,2-DCA are above the remediation goals for water that is near a drinking water source and but below the VCP goals for soil vapor intrusion. The site is not near a drinking water source and therefore it is not likely that remediation would be required by the NDEQ.

Table 3 - Groundwater Sample Results - VOC Constituent Detections
Sample Collection Date: 11/5/12

Sample ID		TMW-5	TMW-6	TMW-7	D-3 Duplicate from TMW-7	Detection Limit	VCP RG for ingestion	VCP RG for Soil Vapor
Parameter	*Method*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*
MTBE	6010B	BDL	0.0042	BDL	BDL	0.001	0.0039	8.37
1,2-Dichloroethane	6010B	0.0075	0.036	BDL	BDL	0.001	0.005	0.0637

BDL = Below Detection Limit Detected compounds in Bold mg/l = milligrams per liter

7.0 CONCLUSIONS AND RECOMMENDATIONS

A Phase II ESA was performed by Olsson Associates for the proposed redevelopment of the property at the southeast corner of the intersection of 21st and N Streets in Lincoln, Nebraska. This assessment consisted of soil sampling at 7 locations and groundwater sampling at 3 locations across the site to evaluate the RECs and HRECs identified in the Phase I ESA report. The results of this assessment indicate the following:

Soil Sample Results:

- No petroleum products or VOCs were detected in any of the soil samples retrieved from the project site.

Groundwater Sample Results:

- Petroleum Products were detected in TMW-3 only. Low level concentrations of ethylbenzene, total xylenes, TPH (gasoline range), and TEH (diesel range) were detected in the laboratory analysis. No concentrations exceeded risk-based screening levels.

- Three VOCs were detected in the groundwater samples. MTBE and sec-butylbenzene were detected at levels below the VCP remediation goals. 1,2-DCA was detected at TMW-5, TMW-6 and in the duplicate samples from TMW-2. The concentration of 1,2-DCA was greater than the VCP remediation goal of 0.005 mg/l for ingestion of groundwater but below the remediation goal for soil vapor intrusion.

The soil and groundwater analytical results presented in this Phase II ESA indicate the presence of petroleum and VOC contaminants. With the exception of 1,2-DCA, the contaminant levels detected were below NDEQ RBCA and VCP remediation goals. The detection of 1,2-DCA indicates that the water on site is not suitable as a source of drinking water but that there is levels are below the required cleanup standards for soil vapor intrusion.

8.0 LIMITATIONS

This report is a professional interpretation based, in part, on information provided by former owners and limited sampling. No warranty of this report, expressed or implied, is given.

Olsson's interpretations regarding the study area are based on available observations of existing site conditions, and limited sampling. Conclusions regarding the condition of the assessment property do not represent a warranty that all areas either within or beneath the assessment property are of the same quality as may be inferred from observable site conditions, readily-available site history, and the results of limited sampling. If additional information becomes available concerning the assessment property, it should be provided to Olsson for review and the possible modification of conclusions, if necessary.

9.0 REFERENCES CITED

American Society of Testing Materials (ASTM), Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, E 1903-11, 2011.

Nebraska Department of Environmental Quality (NDEQ), 2009, Environmental Guidance Document - Risk Based Corrective Action (RBCA) at Petroleum Release Sites. http://www.deq.state.ne.us/

Phase I Environmental Site Assessment, 21st & N Street Redevelopment, Lincoln, NE, Nebraska, Olsson Project No. 012-1112, July 6, 2012.

10.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Questions or requests for further information should be directed to our office.

Prepared by,

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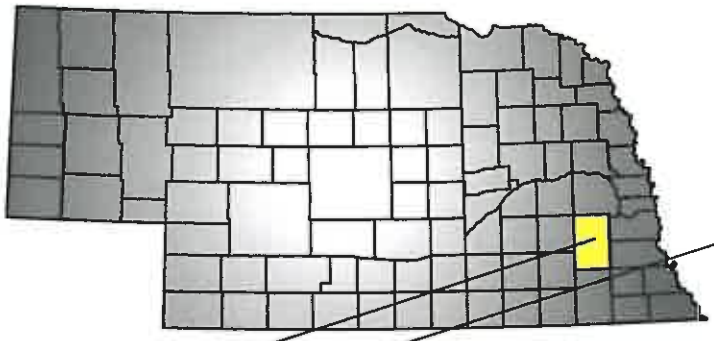
Project Scientist

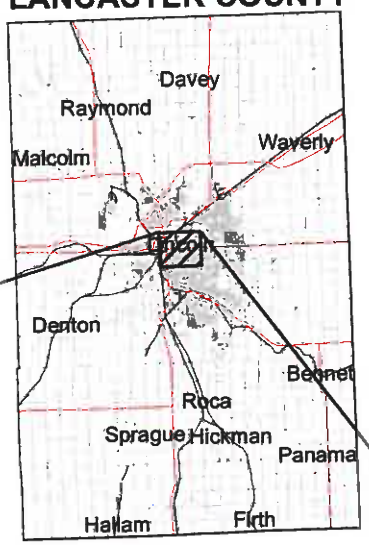
Reviewed by,

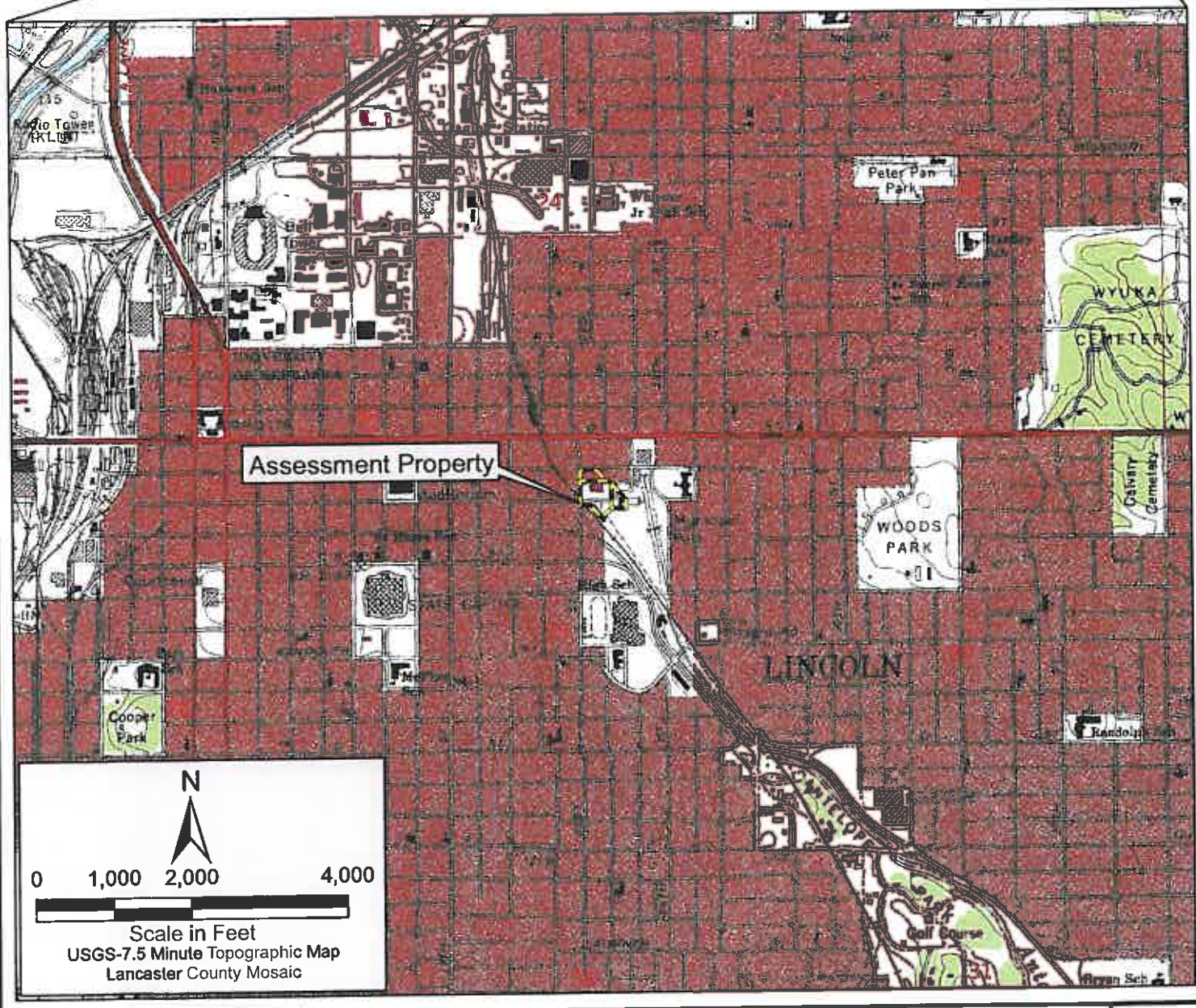
Karen O'Connor

Karen O'Connor, PG
Senior Environmental Scientist

APPENDIX A
Figures







PROJECT: 012-1112, 100, 100001	LOCATION MAP 21st & N St. Redevelopment Lincoln, Nebraska	OLSSON ASSOCIATES	FIGURE
DRAWN BY: RD			1
Date: Oct 10, 2012			

Path: F:\Projects\012-1112_GOHY\GIS\Maps.mxd User: koconnor

PROJECT: 012-1112, 100, 100001	SITE MAP 21st & N St. Redevelopment Lincoln, Nebraska	OLSSON ASSOCIATES	FIGURE
DRAWN BY: RD			2
Date: Oct 10, 2012			

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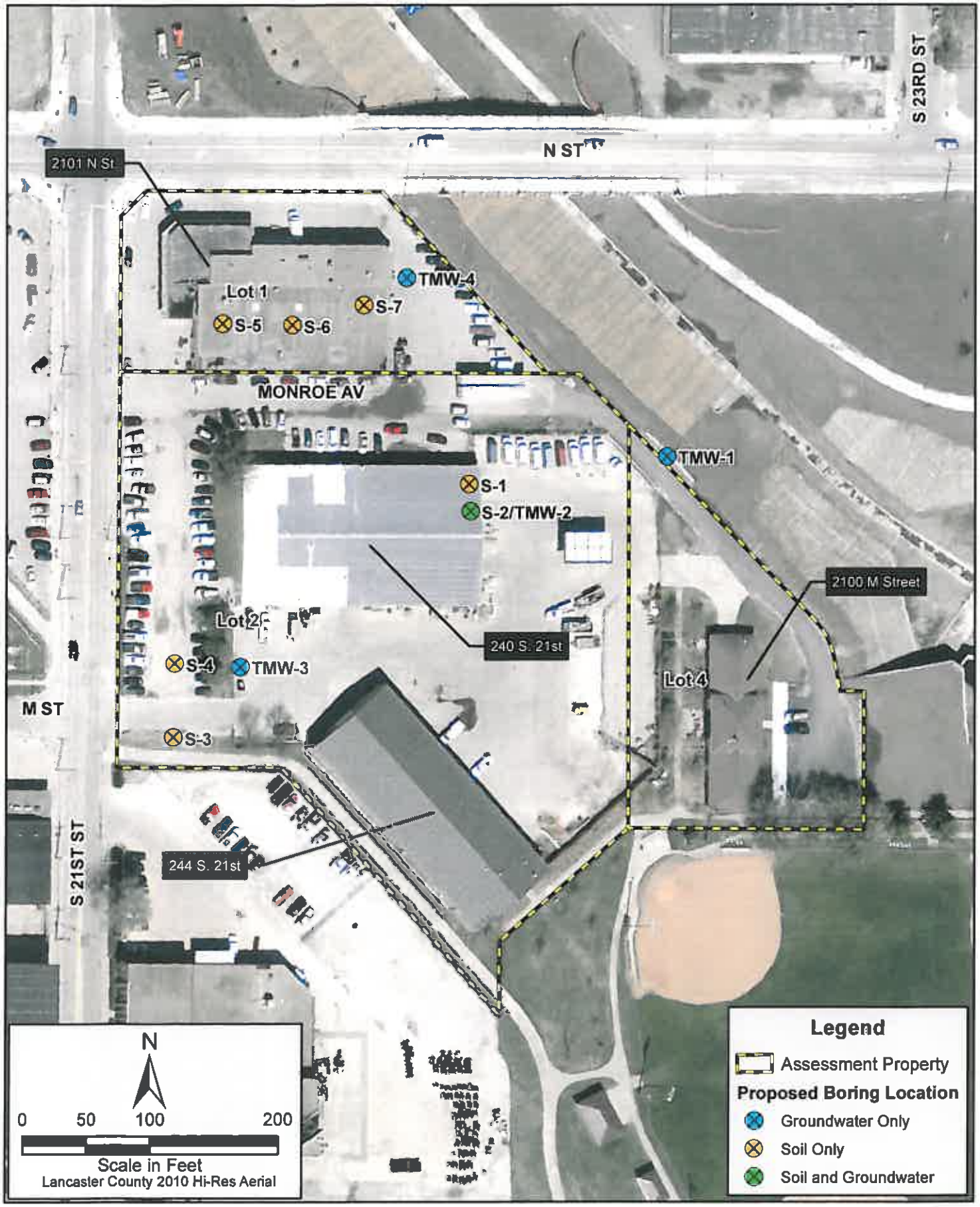

PROJECT: 012-1112, 100, 100001	BORING LOCATION MAP 21st & N St. Redevelopment Lincoln, Nebraska	OLSSON ASSOCIATES	FIGURE
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Date: Oct 12, 2012			

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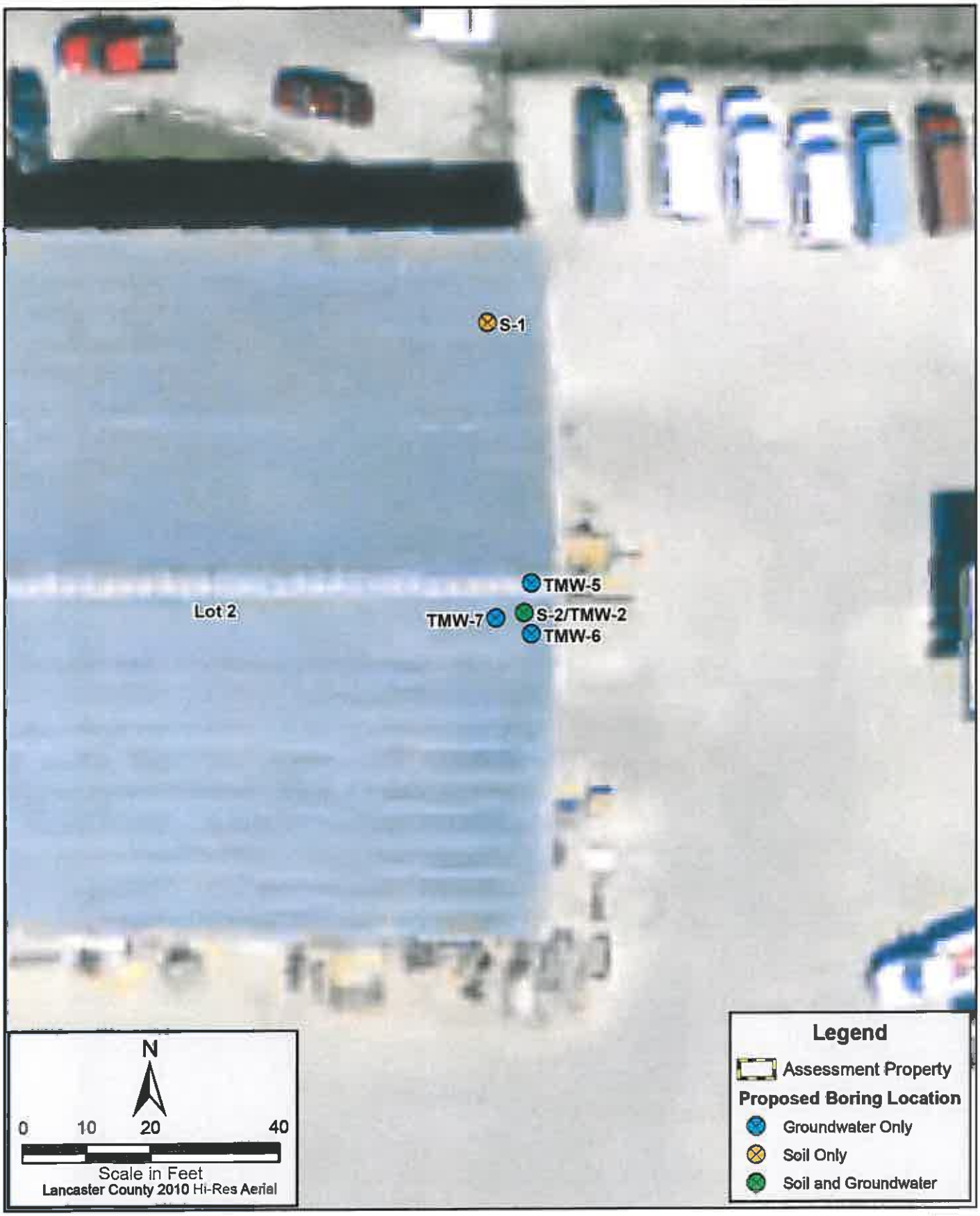

PROJECT: 012-2189, 100, 100001	ADDITIONAL BORING LOCATION MAP 21st & N St. Redevelopment Lincoln, Nebraska	OLSSON ASSOCIATES	FIGURE
DRAWN BY: RD			4
Date: Nov 16, 2012			

Path: F:\Projects\012-2189_GOHY\GIS\Maps.mxd User: rdoty

APPENDIX B
Boring Logs

OLSSON ASSOCIATES

Boring Number: S-1

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		6" concrete, clay fill	0-2	60	0.5	1
2		Silty clay (CL), dark brown, soft, moist				2
3			2-4	60	0.3	3
4						4
5			4-6	100	0.5	5
6						6
7			6-8	100	0.2	7
8		Sandy silty clay (CL), dark brown, firm, moist				8
9			8-10	80	0.3	9
10						10
11			10-12	80	0.3	11
12		Increased sand				12
13			12-14	100	0.5	13
14						14
15			14-16	100	1.1	15
16		Sandy silty clay (CL), tan/gray, soft, moist				16
17			16-18	100	0.4	17
18		Faint petroleum odor Saturated				18
19		Fine sand (SP), brown, saturated				19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/19/12
Water Level (bgl): 19'

OLSSON ASSOCIATES

Boring Number: S-2

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
		Silty clay (fill), dark brown, soft, moist				1, 2, 3
4		Silty clay (CL), dark brown, firm, moist	4-6	75	0.2	4, 5
6			6-8	75	0.2	6, 7
8			8-10	75	0.4	8, 9
10			10-12	75	0.3	10, 11
12		Sandy silty clay (CL), dark brown, firm, moist	12-14	100	0.3	12, 13
14			14-16	100	0.2	14, 15
16		Increased sand				16, 17
18		Sandy clay (CL), gray, faint petroleum odor				18
19		Fine sand (SP), brown, saturated				19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/19/12
Water Level (bgl): 19'

OLSSON ASSOCIATES

Boring Number: S-3

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		Silty clay (fill), dark brown, firm, dry				1
2			0-4	50	0.3	2
3						3
4		Silty clay (CL), dark brown, firm, dry				4
5			4-6	100	0.3	5
6						6
7			6-8	100	0.4	7
8		Sandy silty clay (CL), dark brown, firm, dry				8
9			8-10	100	0.3	9
10						10
11			10-12	100	0.1	11
12						12
13			12-14	100	0.2	13
14						14
15			14-16	100	0.1	15
16		Fine sand (SP), slightly clayey, brown				16
17						17
18						18
19						19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/19/12
Water Level (bgl): NA

OLSSON ASSOCIATES

Boring Number: S-4

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		Silty clay (fill), brown/dark brown, firm, dry				1
2			0-4	50	0.1	2
3						3
4						4
5						5
6			4-8	50	0.1	6
7						7
8		Silty clay (CL), dark brown, dry, firm, some fine sand				8
9			8-10	75	0.2	9
10						10
11			10-12	75	0.2	11
12		Silty sandy clay (CL), firm to very soft, increasing sand.				12
13			12-14	100	0.3	13
14						14
15		Clayey sand (SC), very soft, saturated	14-16	100	0.1	15
16						16
17						17
18						18
19						19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/19/12
Water Level (bgl): NA

OLSSON ASSOCIATES

Boring Number: S-5

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		Silty clay (fill), dark brown, dry, firm				1
2			0-4	50	0.3	2
3						3
4		Sandy silty clay (CL), brown, firm, dry				4
5			4-6	75	0.1	5
6						6
7			6-8	75	0.1	7
8		Silty sandy clay (CL), brown, soft, moist				8
9			8-10	100	0.2	9
10						10
11			10-12	100	0.1	11
12						12
13			12-14	100	0.0	13
14						14
15		Medium sand (SP), brown, loose, saturated	14-16	100	0.1	15
16						16
17						17
18						18
19						19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/20/12
Water Level (bgl): NA

OLSSON ASSOCIATES

Boring Number: S-6

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		Silty clay (fill), dark brown, dry, firm				1
2			0-4	50	0.1	2
3						3
4		Silty sandy clay (CL), brown, firm, moist				4
5			4-6	75	0.1	5
6						6
7			6-8	75	0.1	7
8						8
9			8-10	100	0.1	9
10						10
11			10-12	100	0.1	11
12		Silty sandy clay, brown to tan, sand increasing with depth, soft, very moist, saturated clayey sand at bottom.				12
13			12-14	100	0.1	13
14						14
15			14-16	100	0.0	15
16						16
17						17
18						18
19						19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/20/12
Water Level (bgl): NA

OLSSON ASSOCIATES

Boring Number: S-7

Project No.: 012-1112
Project: 21st & N St. Redevelopment
Client: The City of Lincoln Community Development
Location: Lincoln, NE ***Project Manager:*** Karen O'Connor

SUBSURFACE PROFILE			SAMPLE			
Depth	Symbol	Description	Number	Recovery (%)	PID Reading (RRU)	Depth
0		Ground Surface				0
1		Silty clay (fill), dark brown, dry, firm				1
2			0-4	50	0.2	2
3						3
4		Silty sandy clay (CL), brown, firm, dry				4
5			4-6	100	0.4	5
6						6
7			6-8	100	0.6	7
8		Increasing sand				8
9			8-10	100	0.8	9
10		Soft, 1" sand seam				10
11			10-12	100	0.6	11
12		Silty sandy clay, brown to tan, sand increasing with depth, soft, very moist, saturated clayey sand at bottom.				12
13			12-14	100	0.5	13
14						14
15			14-16	100	0.5	15
16						16
17						17
18						18
19						19
20						20

Drilled By: Detech Inc. ***Drill Method:*** Geoprobe ***Drill Date:*** 9/20/12
Water Level (bgl): NA

APPENDIX C
Laboratory Analytical Report

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

Report Summary

Tuesday October 02, 2012

Report Number: L596744
Samples Received: 09/21/12
Client Project: 012-1112

Description: 21st and N Street Phase II

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards
Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-01

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	09/23/12	1
Toluene	BDL	0.0050	mg/l	8021/OA1	09/23/12	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	09/23/12	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	09/23/12	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	09/23/12	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	09/23/12	1
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.9		% Rec.	8021/OA1	09/23/12	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/23/12	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/22/12	1
Acrolein	BDL	0.050	mg/l	8260B	09/22/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/22/12	1
Benzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromoform	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/22/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/22/12	1
Chloroform	BDL	0.0050	mg/l	8260B	09/22/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/22/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-01

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/22/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/22/12	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Styrene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Toluene	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/22/12	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/22/12	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	09/22/12	1
Dibromofluoromethane	111.		% Rec.	8260B	09/22/12	1
4-Bromofluorobenzene	103.		% Rec.	8260B	09/22/12	1
Mineral Spirits	BDL	0.10	mg/l	OA2	09/28/12	1
Kerosene	BDL	0.10	mg/l	OA2	09/28/12	1
Diesel	BDL	0.10	mg/l	OA2	09/28/12	1
#6 Fuel Oil	BDL	0.10	mg/l	OA2	09/28/12	1
Hydraulic Fluid	BDL	0.10	mg/l	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-01

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Motor Oil	BDL	0.50	mg/l	OA2	09/28/12	1
Surrogate recovery(%)						
o-Terphenyl	88.0		% Rec.	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-02

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	09/23/12	1
Toluene	BDL	0.0050	mg/l	8021/OA1	09/23/12	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	09/23/12	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	09/23/12	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	09/23/12	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	09/23/12	1
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.2		% Rec.	8021/OA1	09/23/12	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/23/12	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/22/12	1
Acrolein	BDL	0.050	mg/l	8260B	09/22/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/22/12	1
Benzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromoform	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/22/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/22/12	1
Chloroform	BDL	0.0050	mg/l	8260B	09/22/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/22/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-02

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/22/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/22/12	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methyl tert-butyl ether	0.0012	0.0010	mg/l	8260B	09/22/12	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Styrene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Toluene	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/22/12	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/22/12	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	09/22/12	1
Dibromofluoromethane	110.		% Rec.	8260B	09/22/12	1
4-Bromofluorobenzene	104.		% Rec.	8260B	09/22/12	1
Mineral Spirits	BDL	0.10	mg/l	OA2	09/28/12	1
Kerosene	BDL	0.10	mg/l	OA2	09/28/12	1
Diesel	BDL	0.10	mg/l	OA2	09/28/12	1
#6 Fuel Oil	BDL	0.10	mg/l	OA2	09/28/12	1
Hydraulic Fluid	BDL	0.10	mg/l	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-02

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Motor Oil	BDL	0.50	mg/l	OA2	09/28/12	1
Surrogate recovery(%)						
o-Terphenyl	62.3		% Rec.	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-03

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-3

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	09/24/12	1
Toluene	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
Ethylbenzene	0.00072	0.00050	mg/l	8021/OA1	09/24/12	1
Total Xylene	0.0020	0.0015	mg/l	8021/OA1	09/24/12	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
TPH (GC/FID) Low Fraction	0.61	0.10	mg/l	8021/OA1	09/24/12	1
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.6		% Rec.	8021/OA1	09/24/12	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/22/12	1
Acrolein	BDL	0.050	mg/l	8260B	09/22/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/22/12	1
Benzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromoform	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
sec-Butylbenzene	0.0016	0.0010	mg/l	8260B	09/22/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/22/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/22/12	1
Chloroform	BDL	0.0050	mg/l	8260B	09/22/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/22/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-03

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-3

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/22/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/22/12	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Styrene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Toluene	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/22/12	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/22/12	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	09/22/12	1
Dibromofluoromethane	113.		% Rec.	8260B	09/22/12	1
4-Bromofluorobenzene	111.		% Rec.	8260B	09/22/12	1
Mineral Spirits	BDL	0.10	mg/l	OA2	09/28/12	1
Kerosene	BDL	0.10	mg/l	OA2	09/28/12	1
Diesel	0.74	0.10	mg/l	OA2	09/28/12	1
#6 Fuel Oil	BDL	0.10	mg/l	OA2	09/28/12	1
Hydraulic Fluid	BDL	0.10	mg/l	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-03

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-3

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Motor Oil	BDL	0.50	mg/l	OA2	09/28/12	1
Surrogate recovery(%)						
o-Terphenyl	70.0		% Rec.	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-04

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-4

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	09/24/12	1
Toluene	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	09/24/12	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	09/24/12	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	09/24/12	1
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.7		% Rec.	8021/OA1	09/24/12	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/23/12	1
Acrolein	BDL	0.050	mg/l	8260B	09/23/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/23/12	1
Benzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/23/12	1
Bromoform	BDL	0.0010	mg/l	8260B	09/23/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/23/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/23/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/23/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/23/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/23/12	1
Chloroform	BDL	0.0050	mg/l	8260B	09/23/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/23/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/23/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/23/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/23/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/23/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/23/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/23/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/23/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-04

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-4

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/23/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/23/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/23/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/23/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/23/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/23/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/23/12	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/23/12	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/23/12	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/23/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/23/12	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/23/12	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Styrene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/23/12	1
Toluene	BDL	0.0050	mg/l	8260B	09/23/12	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/23/12	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/23/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/23/12	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/23/12	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/23/12	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/23/12	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/23/12	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	09/23/12	1
Dibromofluoromethane	108.		% Rec.	8260B	09/23/12	1
4-Bromofluorobenzene	106.		% Rec.	8260B	09/23/12	1
Mineral Spirits	BDL	0.10	mg/l	OA2	09/28/12	1
Kerosene	BDL	0.10	mg/l	OA2	09/28/12	1
Diesel	BDL	0.10	mg/l	OA2	09/28/12	1
#6 Fuel Oil	BDL	0.10	mg/l	OA2	09/28/12	1
Hydraulic Fluid	BDL	0.10	mg/l	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-04

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : TMW-4

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Motor Oil	BDL	0.50	mg/l	OA2	09/28/12	1
Surrogate recovery(%)						
o-Terphenyl	66.0		% Rec.	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-05

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	09/24/12	1
Toluene	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	09/24/12	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	09/24/12	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	09/24/12	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	09/24/12	1
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.9		% Rec.	8021/OA1	09/24/12	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/22/12	1
Acrolein	BDL	0.050	mg/l	8260B	09/22/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/22/12	1
Benzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromoform	BDL	0.0010	mg/l	8260B	09/22/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/22/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/22/12	1
Chloroform	BDL	0.0050	mg/l	8260B	09/22/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/22/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloroethane	0.0075	0.0010	mg/l	8260B	09/22/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-05

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/22/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/22/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	09/22/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	09/22/12	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/22/12	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/22/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	09/22/12	1
Naphthalene	BDL	0.0050	mg/l	8260B	09/22/12	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Styrene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Toluene	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/22/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/22/12	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/22/12	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	09/22/12	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/22/12	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/22/12	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	09/22/12	1
Dibromofluoromethane	111.		% Rec.	8260B	09/22/12	1
4-Bromofluorobenzene	105.		% Rec.	8260B	09/22/12	1
Mineral Spirits	BDL	0.10	mg/l	OA2	09/28/12	1
Kerosene	BDL	0.10	mg/l	OA2	09/28/12	1
Diesel	BDL	0.10	mg/l	OA2	09/28/12	1
#6 Fuel Oil	BDL	0.10	mg/l	OA2	09/28/12	1
Hydraulic Fluid	BDL	0.10	mg/l	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-05

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-1

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 12:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Motor Oil	BDL	0.50	mg/l	OA2	09/28/12	1
Surrogate recovery(%)						
o-Terphenyl	54.5		% Rec.	OA2	09/28/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-06

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 0-2 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/25/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/25/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/25/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/25/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/25/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/25/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/25/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/25/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/25/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/25/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/25/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/25/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/25/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/25/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/25/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-06

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 0-2 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/25/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/25/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/25/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/25/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/25/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/25/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/25/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/25/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/25/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/25/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/25/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/25/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/25/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/25/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/25/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/25/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/25/12	5
Surrogate Recovery						
Toluene-d8	94.5		% Rec.	8260B	09/25/12	5
Dibromofluoromethane	91.4		% Rec.	8260B	09/25/12	5
4-Bromofluorobenzene	88.0		% Rec.	8260B	09/25/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-06

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 0-2 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	83.8		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-07

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 18-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/26/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/26/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/26/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/26/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/26/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/26/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/26/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/26/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/26/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/26/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/26/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/26/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/26/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/26/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/26/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-07

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 18-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/26/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/26/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/26/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/26/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/26/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/26/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/26/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/26/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/26/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/26/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/26/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/26/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/26/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/26/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/26/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/26/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/26/12	5
Surrogate Recovery						
Toluene-d8	99.6		% Rec.	8260B	09/26/12	5
Dibromofluoromethane	99.1		% Rec.	8260B	09/26/12	5
4-Bromofluorobenzene	104.		% Rec.	8260B	09/26/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-07

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-1 18-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	84.7		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-08

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/23/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/23/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/23/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/23/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/23/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/23/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-08

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/23/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/23/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/23/12	5
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	09/23/12	5
Dibromofluoromethane	102.		% Rec.	8260B	09/23/12	5
4-Bromofluorobenzene	99.6		% Rec.	8260B	09/23/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-08

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	78.6		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-09

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 17.5-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/23/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/23/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/23/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/23/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/23/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/23/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-09

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 17.5-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/23/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/23/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/23/12	5
Surrogate Recovery						
Toluene-d8	96.9		% Rec.	8260B	09/23/12	5
Dibromofluoromethane	98.6		% Rec.	8260B	09/23/12	5
4-Bromofluorobenzene	103.		% Rec.	8260B	09/23/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-09

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-2 17.5-19 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	80.9		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-10

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-3 6-8 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/23/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/23/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/23/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/23/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/23/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/23/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-10

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-3 6-8 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/23/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/23/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/23/12	5
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	09/23/12	5
Dibromofluoromethane	99.8		% Rec.	8260B	09/23/12	5
4-Bromofluorobenzene	99.6		% Rec.	8260B	09/23/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-10

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-3 6-8 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	75.6		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-11

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-4 12-14 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	99.8		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/23/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/23/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/23/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/23/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/23/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/23/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/23/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-11

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-4 12-14 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/23/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/23/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/23/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/23/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/23/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/23/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/23/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/23/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/23/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/23/12	5
Surrogate Recovery						
Toluene-d8	98.7		% Rec.	8260B	09/23/12	5
Dibromofluoromethane	101.		% Rec.	8260B	09/23/12	5
4-Bromofluorobenzene	99.9		% Rec.	8260B	09/23/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-11

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-4 12-14 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	84.4		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-12

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-5 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/24/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/24/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/24/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/24/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/24/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/24/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-12

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-5 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/24/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/24/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/24/12	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	09/24/12	5
Dibromofluoromethane	106.		% Rec.	8260B	09/24/12	5
4-Bromofluorobenzene	105.		% Rec.	8260B	09/24/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-12

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-5 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	73.0		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-13

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-6 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/24/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/24/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/24/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/24/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/OA1	09/24/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/OA1	09/24/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/24/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/24/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/24/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/24/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/24/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/24/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-13

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-6 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/24/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/24/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/24/12	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	09/24/12	5
Dibromofluoromethane	109.		% Rec.	8260B	09/24/12	5
4-Bromofluorobenzene	104.		% Rec.	8260B	09/24/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-13

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-6 0-4 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 09:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	78.5		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-14

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-7 8-10 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/25/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/25/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/25/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/25/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/25/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/25/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.4		% Rec.	8021/OA1	09/25/12	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/OA1	09/25/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/24/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/24/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/24/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/24/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/24/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/24/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-14

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-7 8-10 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/24/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/24/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/24/12	5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	09/24/12	5
Dibromofluoromethane	110.		% Rec.	8260B	09/24/12	5
4-Bromofluorobenzene	111.		% Rec.	8260B	09/24/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	09/29/12	1
Kerosene	BDL	4.0	mg/kg	OA2	09/29/12	1
Diesel	BDL	4.0	mg/kg	OA2	09/29/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	09/29/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	09/29/12	1
Motor Oil	BDL	10.	mg/kg	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
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1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-14

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : S-7 8-10 FT

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/20/12 10:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	75.5		% Rec.	OA2	09/29/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-15

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	09/25/12	5
Toluene	BDL	0.025	mg/kg	8021/OA1	09/25/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	09/25/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	09/25/12	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	09/25/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	09/25/12	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene(FID)	98.1		% Rec.	8021/OA1	09/25/12	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/OA1	09/25/12	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	09/24/12	5
Acrylonitrile	BDL	0.050	mg/kg	8260B	09/24/12	5
Benzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromoform	BDL	0.0050	mg/kg	8260B	09/24/12	5
Bromomethane	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
sec-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
tert-Butylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Chloroethane	BDL	0.025	mg/kg	8260B	09/24/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/kg	8260B	09/24/12	5
Chloroform	BDL	0.025	mg/kg	8260B	09/24/12	5
Chloromethane	BDL	0.012	mg/kg	8260B	09/24/12	5
2-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
4-Chlorotoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dibromomethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Lincoln, NE 68508

October 02, 2012

ESC Sample # : L596744-15

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Di-isopropyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Hexachloro-1,3-butadiene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Isopropylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
p-Isopropyltoluene	BDL	0.0050	mg/kg	8260B	09/24/12	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	09/24/12	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	09/24/12	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	09/24/12	5
Naphthalene	BDL	0.025	mg/kg	8260B	09/24/12	5
n-Propylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Styrene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Toluene	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	09/24/12	5
1,2,3-Trichloropropane	BDL	0.012	mg/kg	8260B	09/24/12	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,2,3-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/kg	8260B	09/24/12	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	09/24/12	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	09/24/12	5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	09/24/12	5
Dibromofluoromethane	105.		% Rec.	8260B	09/24/12	5
4-Bromofluorobenzene	107.		% Rec.	8260B	09/24/12	5
Mineral Spirits	BDL	4.0	mg/kg	OA2	10/02/12	1
Kerosene	BDL	4.0	mg/kg	OA2	10/02/12	1
Diesel	BDL	4.0	mg/kg	OA2	10/02/12	1
#6 Fuel Oil	BDL	4.0	mg/kg	OA2	10/02/12	1
Hydraulic Fluid	BDL	4.0	mg/kg	OA2	10/02/12	1
Motor Oil	BDL	10.	mg/kg	OA2	10/02/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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October 02, 2012

ESC Sample # : L596744-15

Date Received : September 21, 2012
Description : 21st and N Street Phase II

Site ID :

Sample ID : D-2

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 09/19/12 15:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Surrogate recovery(%)						
o-Terphenyl	50.2		% Rec.	OA2	10/02/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/02/12 10:48 Printed: 10/02/12 10:50

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L596744-05	WG614071	SAMP	2-Chloroethyl vinyl ether	R2360677	J6J3
	WG614071	SAMP	2-Butanone (MEK)	R2360677	J3
L596744-06	WG614034	SAMP	TPH (GC/FID) Low Fraction	R2361074	J5

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/02/12 at 10:50:31

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L596744-01 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-02 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-03 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-04 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-05 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-06 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-07 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-08 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-09 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-10 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-11 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-12 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-13 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-14 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

Sample: L596744-15 Account: OLSSONLN Received: 09/21/12 09:00 Due Date: 09/28/12 00:00 RPT Date: 10/02/12 10:48

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1,1-Trichloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1,2-Trichloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1-Dichloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,1-Dichloroethene	< .001	mg/l			WG614071	09/22/12 17:32
1,1-Dichloropropene	< .001	mg/l			WG614071	09/22/12 17:32
1,2,3-Trichlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,2,3-Trichloropropane	< .001	mg/l			WG614071	09/22/12 17:32
1,2,3-Trimethylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,2,4-Trichlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,2,4-Trimethylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG614071	09/22/12 17:32
1,2-Dibromoethane	< .001	mg/l			WG614071	09/22/12 17:32
1,2-Dichlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,2-Dichloroethane	< .001	mg/l			WG614071	09/22/12 17:32
1,2-Dichloropropane	< .001	mg/l			WG614071	09/22/12 17:32
1,3,5-Trimethylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,3-Dichlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
1,3-Dichloropropane	< .001	mg/l			WG614071	09/22/12 17:32
1,4-Dichlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
2,2-Dichloropropane	< .001	mg/l			WG614071	09/22/12 17:32
2-Butanone (MEK)	< .01	mg/l			WG614071	09/22/12 17:32
2-Chloroethyl vinyl ether	< .05	mg/l			WG614071	09/22/12 17:32
2-Chlorotoluene	< .001	mg/l			WG614071	09/22/12 17:32
4-Chlorotoluene	< .001	mg/l			WG614071	09/22/12 17:32
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG614071	09/22/12 17:32
Acetone	< .05	mg/l			WG614071	09/22/12 17:32
Acrolein	< .025	mg/l			WG614071	09/22/12 17:32
Acrylonitrile	< .01	mg/l			WG614071	09/22/12 17:32
Benzene	< .001	mg/l			WG614071	09/22/12 17:32
Bromobenzene	< .001	mg/l			WG614071	09/22/12 17:32
Bromodichloromethane	< .001	mg/l			WG614071	09/22/12 17:32
Bromoform	< .001	mg/l			WG614071	09/22/12 17:32
Bromomethane	< .005	mg/l			WG614071	09/22/12 17:32
Carbon tetrachloride	< .001	mg/l			WG614071	09/22/12 17:32
Chlorobenzene	< .001	mg/l			WG614071	09/22/12 17:32
Chlorodibromomethane	< .001	mg/l			WG614071	09/22/12 17:32
Chloroethane	< .005	mg/l			WG614071	09/22/12 17:32
Chloroform	< .005	mg/l			WG614071	09/22/12 17:32
Chloromethane	< .0025	mg/l			WG614071	09/22/12 17:32
cis-1,2-Dichloroethene	< .001	mg/l			WG614071	09/22/12 17:32
cis-1,3-Dichloropropene	< .001	mg/l			WG614071	09/22/12 17:32
Di-isopropyl ether	< .001	mg/l			WG614071	09/22/12 17:32
Dibromomethane	< .001	mg/l			WG614071	09/22/12 17:32
Dichlorodifluoromethane	< .005	mg/l			WG614071	09/22/12 17:32
Ethylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
Hexachloro-1,3-butadiene	< .001	mg/l			WG614071	09/22/12 17:32
Isopropylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
Methyl tert-butyl ether	< .001	mg/l			WG614071	09/22/12 17:32
Methylene Chloride	< .005	mg/l			WG614071	09/22/12 17:32
n-Butylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
n-Propylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
Naphthalene	< .005	mg/l			WG614071	09/22/12 17:32
p-Isopropyltoluene	< .001	mg/l			WG614071	09/22/12 17:32
sec-Butylbenzene	< .001	mg/l			WG614071	09/22/12 17:32
Styrene	< .001	mg/l			WG614071	09/22/12 17:32
tert-Butylbenzene	< .001	mg/l			WG614071	09/22/12 17:32

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG614071	09/22/12 17:32
Toluene	< .005	mg/l			WG614071	09/22/12 17:32
trans-1,2-Dichloroethene	< .001	mg/l			WG614071	09/22/12 17:32
trans-1,3-Dichloropropene	< .001	mg/l			WG614071	09/22/12 17:32
Trichloroethene	< .001	mg/l			WG614071	09/22/12 17:32
Trichlorofluoromethane	< .005	mg/l			WG614071	09/22/12 17:32
Vinyl chloride	< .001	mg/l			WG614071	09/22/12 17:32
Xylenes, Total	< .003	mg/l			WG614071	09/22/12 17:32
4-Bromofluorobenzene		% Rec.	105.5	82-120	WG614071	09/22/12 17:32
Dibromofluoromethane		% Rec.	108.8	82-126	WG614071	09/22/12 17:32
Toluene-d8		% Rec.	105.8	92-112	WG614071	09/22/12 17:32
Benzene	< .0005	mg/kg			WG614034	09/24/12 01:54
Ethylbenzene	< .0005	mg/kg			WG614034	09/24/12 01:54
Methyl tert-butyl ether	< .005	mg/kg			WG614034	09/24/12 01:54
Toluene	< .005	mg/kg			WG614034	09/24/12 01:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG614034	09/24/12 01:54
Total Xylene	< .0015	mg/kg			WG614034	09/24/12 01:54
a,a,a-Trifluorotoluene(FID)		% Rec.	101.0	59-128	WG614034	09/24/12 01:54
a,a,a-Trifluorotoluene(PID)		% Rec.	103.3	54-144	WG614034	09/24/12 01:54
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1,1-Trichloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1,2-Trichloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1-Dichloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,1-Dichloroethene	< .001	mg/kg			WG614031	09/23/12 05:05
1,1-Dichloropropene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2,3-Trichlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2,3-Trichloropropane	< .0025	mg/kg			WG614031	09/23/12 05:05
1,2,3-Trimethylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2,4-Trichlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2,4-Trimethylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG614031	09/23/12 05:05
1,2-Dibromoethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,2-Dichlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,2-Dichloroethane	< .001	mg/kg			WG614031	09/23/12 05:05
1,2-Dichloropropane	< .001	mg/kg			WG614031	09/23/12 05:05
1,3,5-Trimethylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,3-Dichlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
1,3-Dichloropropane	< .001	mg/kg			WG614031	09/23/12 05:05
1,4-Dichlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
2,2-Dichloropropane	< .001	mg/kg			WG614031	09/23/12 05:05
2-Butanone (MEK)	< .01	mg/kg			WG614031	09/23/12 05:05
2-Chloroethyl vinyl ether	< .05	mg/kg			WG614031	09/23/12 05:05
2-Chlorotoluene	< .001	mg/kg			WG614031	09/23/12 05:05
4-Chlorotoluene	< .001	mg/kg			WG614031	09/23/12 05:05
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG614031	09/23/12 05:05
Acetone	< .05	mg/kg			WG614031	09/23/12 05:05
Acrylonitrile	< .01	mg/kg			WG614031	09/23/12 05:05
Benzene	< .001	mg/kg			WG614031	09/23/12 05:05
Bromobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Bromodichloromethane	< .001	mg/kg			WG614031	09/23/12 05:05
Bromoform	< .001	mg/kg			WG614031	09/23/12 05:05
Bromomethane	< .005	mg/kg			WG614031	09/23/12 05:05
Carbon tetrachloride	< .001	mg/kg			WG614031	09/23/12 05:05

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chlorobenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Chlorodibromomethane	< .001	mg/kg			WG614031	09/23/12 05:05
Chloroethane	< .005	mg/kg			WG614031	09/23/12 05:05
Chloroform	< .005	mg/kg			WG614031	09/23/12 05:05
Chloromethane	< .0025	mg/kg			WG614031	09/23/12 05:05
cis-1,2-Dichloroethene	< .001	mg/kg			WG614031	09/23/12 05:05
cis-1,3-Dichloropropene	< .001	mg/kg			WG614031	09/23/12 05:05
Di-isopropyl ether	< .001	mg/kg			WG614031	09/23/12 05:05
Dibromomethane	< .001	mg/kg			WG614031	09/23/12 05:05
Dichlorodifluoromethane	< .005	mg/kg			WG614031	09/23/12 05:05
Ethylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Hexachloro-1,3-butadiene	< .001	mg/kg			WG614031	09/23/12 05:05
Isopropylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Methyl tert-butyl ether	< .001	mg/kg			WG614031	09/23/12 05:05
Methylene Chloride	< .005	mg/kg			WG614031	09/23/12 05:05
n-Butylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
n-Propylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Naphthalene	< .005	mg/kg			WG614031	09/23/12 05:05
p-Isopropyltoluene	< .001	mg/kg			WG614031	09/23/12 05:05
sec-Butylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Styrene	< .001	mg/kg			WG614031	09/23/12 05:05
tert-Butylbenzene	< .001	mg/kg			WG614031	09/23/12 05:05
Tetrachloroethene	< .001	mg/kg			WG614031	09/23/12 05:05
Toluene	< .005	mg/kg			WG614031	09/23/12 05:05
trans-1,2-Dichloroethene	< .001	mg/kg			WG614031	09/23/12 05:05
trans-1,3-Dichloropropene	< .001	mg/kg			WG614031	09/23/12 05:05
Trichloroethene	< .001	mg/kg			WG614031	09/23/12 05:05
Trichlorofluoromethane	< .005	mg/kg			WG614031	09/23/12 05:05
Vinyl chloride	< .001	mg/kg			WG614031	09/23/12 05:05
Xylenes, Total	< .003	mg/kg			WG614031	09/23/12 05:05
4-Bromofluorobenzene		% Rec.	100.9	67-133	WG614031	09/23/12 05:05
Dibromofluoromethane		% Rec.	101.6	72-135	WG614031	09/23/12 05:05
Toluene-d8		% Rec.	100.6	90-113	WG614031	09/23/12 05:05
Benzene	< .0005	mg/l			WG614251	09/23/12 23:10
Ethylbenzene	< .0005	mg/l			WG614251	09/23/12 23:10
Methyl **tert-butyl ether**	< .005	mg/l			WG614251	09/23/12 23:10
Toluene	< .005	mg/l			WG614251	09/23/12 23:10
TPH (GC/FID) Low Fraction	< .1	mg/l			WG614251	09/23/12 23:10
Total Xylene	< .0015	mg/l			WG614251	09/23/12 23:10
a,a,a-Trifluorotoluene(PID)		% Rec.	98.43	62-128	WG614251	09/23/12 23:10
a,a,a-Trifluorotoluene(PID)		% Rec.	103.3	55-122	WG614251	09/23/12 23:10
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1,1-Trichloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1,2-Trichloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1-Dichloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,1-Dichloroethene	< .001	mg/kg			WG614033	09/24/12 04:47
1,1-Dichloropropene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2,3-Trichlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2,3-Trichloropropane	< .0025	mg/kg			WG614033	09/24/12 04:47
1,2,3-Trimethylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2,4-Trichlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2,4-Trimethylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG614033	09/24/12 04:47

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Quality Assurance Report
Level II

L596744

October 02, 2012

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,2-Dibromoethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,2-Dichlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,2-Dichloroethane	< .001	mg/kg			WG614033	09/24/12 04:47
1,2-Dichloropropane	< .001	mg/kg			WG614033	09/24/12 04:47
1,3,5-Trimethylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,3-Dichlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
1,3-Dichloropropane	< .001	mg/kg			WG614033	09/24/12 04:47
1,4-Dichlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
2,2-Dichloropropane	< .001	mg/kg			WG614033	09/24/12 04:47
2-Butanone (MEK)	< .01	mg/kg			WG614033	09/24/12 04:47
2-Chloroethyl vinyl ether	< .05	mg/kg			WG614033	09/24/12 04:47
2-Chlorotoluene	< .001	mg/kg			WG614033	09/24/12 04:47
4-Chlorotoluene	< .001	mg/kg			WG614033	09/24/12 04:47
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG614033	09/24/12 04:47
Acetone	< .05	mg/kg			WG614033	09/24/12 04:47
Acrylonitrile	< .01	mg/kg			WG614033	09/24/12 04:47
Benzene	< .001	mg/kg			WG614033	09/24/12 04:47
Bromobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Bromodichloromethane	< .001	mg/kg			WG614033	09/24/12 04:47
Bromoform	< .001	mg/kg			WG614033	09/24/12 04:47
Bromomethane	< .005	mg/kg			WG614033	09/24/12 04:47
Carbon tetrachloride	< .001	mg/kg			WG614033	09/24/12 04:47
Chlorobenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Chlorodibromomethane	< .001	mg/kg			WG614033	09/24/12 04:47
Chloroethane	< .005	mg/kg			WG614033	09/24/12 04:47
Chloroform	< .005	mg/kg			WG614033	09/24/12 04:47
Chloromethane	< .0025	mg/kg			WG614033	09/24/12 04:47
cis-1,2-Dichloroethene	< .001	mg/kg			WG614033	09/24/12 04:47
cis-1,3-Dichloropropene	< .001	mg/kg			WG614033	09/24/12 04:47
Di-isopropyl ether	< .001	mg/kg			WG614033	09/24/12 04:47
Dibromomethane	< .001	mg/kg			WG614033	09/24/12 04:47
Dichlorodifluoromethane	< .005	mg/kg			WG614033	09/24/12 04:47
Ethylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Hexachloro-1,3-butadiene	< .001	mg/kg			WG614033	09/24/12 04:47
Isopropylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Methyl tert-butyl ether	< .001	mg/kg			WG614033	09/24/12 04:47
Methylene Chloride	< .005	mg/kg			WG614033	09/24/12 04:47
n-Butylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
n-Propylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Naphthalene	< .005	mg/kg			WG614033	09/24/12 04:47
p-Isopropyltoluene	< .001	mg/kg			WG614033	09/24/12 04:47
sec-Butylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Styrene	< .001	mg/kg			WG614033	09/24/12 04:47
tert-Butylbenzene	< .001	mg/kg			WG614033	09/24/12 04:47
Tetrachloroethene	< .001	mg/kg			WG614033	09/24/12 04:47
Toluene	< .005	mg/kg			WG614033	09/24/12 04:47
trans-1,2-Dichloroethene	< .001	mg/kg			WG614033	09/24/12 04:47
trans-1,3-Dichloropropene	< .001	mg/kg			WG614033	09/24/12 04:47
Trichloroethene	< .001	mg/kg			WG614033	09/24/12 04:47
Trichlorofluoromethane	< .005	mg/kg			WG614033	09/24/12 04:47
Vinyl chloride	< .001	mg/kg			WG614033	09/24/12 04:47
Xylenes, Total	< .003	mg/kg			WG614033	09/24/12 04:47
4-Bromofluorobenzene		% Rec.	106.3	67-133	WG614033	09/24/12 04:47
Dibromofluoromethane		% Rec.	103.8	72-135	WG614033	09/24/12 04:47
Toluene-d8		% Rec.	107.3	90-113	WG614033	09/24/12 04:47
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG614030	09/25/12 12:52
1,1,1-Trichloroethane	< .001	mg/kg			WG614030	09/25/12 12:52

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Level II

L596744

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Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,2,2-Tetrachloroethane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,1,2-Trichloroethane	< .001	mg/kg			WG614030	09/25/12 12:52
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG614030	09/25/12 12:52
1,1-Dichloroethane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,1-Dichloroethene	< .001	mg/kg			WG614030	09/25/12 12:52
1,1-Dichloropropene	< .001	mg/kg			WG614030	09/25/12 12:52
1,2,3-Trichlorobenzene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,2,3-Trichloropropane	< .0025	mg/kg			WG614030	09/25/12 12:52
1,2,3-Trimethylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
1,2,4-Trichlorobenzene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,2,4-Trimethylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG614030	09/25/12 12:52
1,2-Dibromoethane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,2-Dichlorobenzene	< .001	mg/kg			WG614030	09/25/12 12:52
1,2-Dichloroethane	< .001	mg/kg			WG614030	09/25/12 12:52
1,2-Dichloropropane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,3,5-Trimethylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
1,3-Dichlorobenzene	< .001	mg/kg			WG614030	09/25/12 12:52
1,3-Dichloropropane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
1,4-Dichlorobenzene	< .001	mg/kg			WG614030	09/25/12 12:52
2,2-Dichloropropane	< .001	mg/kg			WG614030	09/25/12 12:52
2-Butanone (MEK)	**< .01**	**mg/kg**			**WG614030**	**09/25/12 12:52**
2-Chloroethyl vinyl ether	< .05	mg/kg			WG614030	09/25/12 12:52
2-Chlorotoluene	< .001	mg/kg			WG614030	09/25/12 12:52
4-Chlorotoluene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG614030	09/25/12 12:52
Acetone	< .05	mg/kg			WG614030	09/25/12 12:52
Acrylonitrile	**< .01**	**mg/kg**			**WG614030**	**09/25/12 12:52**
Benzene	< .001	mg/kg			WG614030	09/25/12 12:52
Bromobenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Bromodichloromethane	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
Bromoform	< .001	mg/kg			WG614030	09/25/12 12:52
Bromomethane	< .005	mg/kg			WG614030	09/25/12 12:52
Carbon tetrachloride	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
Chlorobenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Chlorodibromomethane	< .001	mg/kg			WG614030	09/25/12 12:52
Chloroethane	**< .005**	**mg/kg**			**WG614030**	**09/25/12 12:52**
Chloroform	< .005	mg/kg			WG614030	09/25/12 12:52
Chloromethane	< .0025	mg/kg			WG614030	09/25/12 12:52
cis-1,2-Dichloroethene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
cis-1,3-Dichloropropene	< .001	mg/kg			WG614030	09/25/12 12:52
Di-isopropyl ether	< .001	mg/kg			WG614030	09/25/12 12:52
Dibromomethane	< .001	mg/kg			WG614030	09/25/12 12:52
Dichlorodifluoromethane	< .005	mg/kg			WG614030	09/25/12 12:52
Ethylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Hexachloro-1,3-butadiene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
Isopropylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Methyl tert-butyl ether	< .001	mg/kg			WG614030	09/25/12 12:52
Methylene Chloride	**< .005**	**mg/kg**			**WG614030**	**09/25/12 12:52**
n-Butylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
n-Propylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Naphthalene	**< .005**	**mg/kg**			**WG614030**	**09/25/12 12:52**
p-Isopropyltoluene	< .001	mg/kg			WG614030	09/25/12 12:52
sec-Butylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Styrene	**< .001**	**mg/kg**			**WG614030**	**09/25/12 12:52**
tert-Butylbenzene	< .001	mg/kg			WG614030	09/25/12 12:52
Tetrachloroethene	< .001	mg/kg			WG614030	09/25/12 12:52
Toluene	**< .005**	**mg/kg**			**WG614030**	**09/25/12 12:52**
trans-1,2-Dichloroethene	< .001	mg/kg			WG614030	09/25/12 12:52

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,3-Dichloropropene	< .001	mg/kg			WG614030	09/25/12 12:52
Trichloroethene	< .001	mg/kg			WG614030	09/25/12 12:52
Trichlorofluoromethane	< .005	mg/kg			WG614030	09/25/12 12:52
Vinyl chloride	< .001	mg/kg			WG614030	09/25/12 12:52
Xylenes, Total	< .003	mg/kg			WG614030	09/25/12 12:52
4-Bromofluorobenzene		% Rec.	88.09	67-133	WG614030	09/25/12 12:52
Dibromofluoromethane		% Rec.	91.06	72-135	WG614030	09/25/12 12:52
Toluene-d8		% Rec.	93.43	90-113	WG614030	09/25/12 12:52
Benzene	< .0005	mg/kg			WG614452	09/25/12 14:46
Ethylbenzene	< .0005	mg/kg			WG614452	09/25/12 14:46
Methyl tert-butyl ether	< .005	mg/kg			WG614452	09/25/12 14:46
Toluene	< .005	mg/kg			WG614452	09/25/12 14:46
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG614452	09/25/12 14:46
Total Xylene	< .0015	mg/kg			WG614452	09/25/12 14:46
a,a,a-Trifluorotoluene(FID)		% Rec.	98.82	59-128	WG614452	09/25/12 14:46
a,a,a-Trifluorotoluene(PID)		% Rec.	106.3	54-144	WG614452	09/25/12 14:46
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1,1-Trichloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1,2-Trichloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1-Dichloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,1-Dichloroethene	< .001	mg/kg			WG614631	09/25/12 23:57
1,1-Dichloropropene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2,3-Trichlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2,3-Trichloropropane	< .0025	mg/kg			WG614631	09/25/12 23:57
1,2,3-Trimethylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2,4-Trichlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2,4-Trimethylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG614631	09/25/12 23:57
1,2-Dibromoethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,2-Dichlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,2-Dichloroethane	< .001	mg/kg			WG614631	09/25/12 23:57
1,2-Dichloropropane	< .001	mg/kg			WG614631	09/25/12 23:57
1,3,5-Trimethylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,3-Dichlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
1,3-Dichloropropane	< .001	mg/kg			WG614631	09/25/12 23:57
1,4-Dichlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
2,2-Dichloropropane	< .001	mg/kg			WG614631	09/25/12 23:57
2-Butanone (MEK)	< .01	mg/kg			WG614631	09/25/12 23:57
2-Chloroethyl vinyl ether	< .05	mg/kg			WG614631	09/25/12 23:57
2-Chlorotoluene	< .001	mg/kg			WG614631	09/25/12 23:57
4-Chlorotoluene	< .001	mg/kg			WG614631	09/25/12 23:57
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG614631	09/25/12 23:57
Acetone	< .05	mg/kg			WG614631	09/25/12 23:57
Acrylonitrile	< .01	mg/kg			WG614631	09/25/12 23:57
Benzene	< .001	mg/kg			WG614631	09/25/12 23:57
Bromobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Bromodichloromethane	< .001	mg/kg			WG614631	09/25/12 23:57
Bromoform	< .001	mg/kg			WG614631	09/25/12 23:57
Bromomethane	< .005	mg/kg			WG614631	09/25/12 23:57
Carbon tetrachloride	< .001	mg/kg			WG614631	09/25/12 23:57
Chlorobenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Chlorodibromomethane	< .001	mg/kg			WG614631	09/25/12 23:57
Chloroethane	< .005	mg/kg			WG614631	09/25/12 23:57

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chloroform	< .005	mg/kg			WG614631	09/25/12 23:57
Chloromethane	< .0025	mg/kg			WG614631	09/25/12 23:57
cis-1,2-Dichloroethene	< .001	mg/kg			WG614631	09/25/12 23:57
cis-1,3-Dichloropropene	< .001	mg/kg			WG614631	09/25/12 23:57
Di-isopropyl ether	< .001	mg/kg			WG614631	09/25/12 23:57
Dibromomethane	< .001	mg/kg			WG614631	09/25/12 23:57
Dichlorodifluoromethane	< .005	mg/kg			WG614631	09/25/12 23:57
Ethylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Hexachloro-1,3-butadiene	< .001	mg/kg			WG614631	09/25/12 23:57
Isopropylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Methyl tert-butyl ether	< .001	mg/kg			WG614631	09/25/12 23:57
Methylene Chloride	< .005	mg/kg			WG614631	09/25/12 23:57
n-Butylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
n-Propylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Naphthalene	< .005	mg/kg			WG614631	09/25/12 23:57
p-Isopropyltoluene	< .001	mg/kg			WG614631	09/25/12 23:57
sec-Butylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Styrene	< .001	mg/kg			WG614631	09/25/12 23:57
tert-Butylbenzene	< .001	mg/kg			WG614631	09/25/12 23:57
Tetrachloroethene	< .001	mg/kg			WG614631	09/25/12 23:57
Toluene	< .005	mg/kg			WG614631	09/25/12 23:57
trans-1,2-Dichloroethene	< .001	mg/kg			WG614631	09/25/12 23:57
trans-1,3-Dichloropropene	< .001	mg/kg			WG614631	09/25/12 23:57
Trichloroethene	< .001	mg/kg			WG614631	09/25/12 23:57
Trichlorofluoromethane	< .005	mg/kg			WG614631	09/25/12 23:57
Vinyl chloride	< .001	mg/kg			WG614631	09/25/12 23:57
Xylenes, Total	< .003	mg/kg			WG614631	09/25/12 23:57
4-Bromofluorobenzene		% Rec.	106.4	67-133	WG614631	09/25/12 23:57
Dibromofluoromethane		% Rec.	104.5	72-135	WG614631	09/25/12 23:57
Toluene-d8		% Rec.	100.3	90-113	WG614631	09/25/12 23:57
#6 Fuel Oil	< .1	mg/l			WG613784	09/27/12 02:02
Diesel	< .1	mg/l			WG613784	09/27/12 02:02
Hydraulic Fluid	< .1	mg/l			WG613784	09/27/12 02:02
Kerosene	< .1	mg/l			WG613784	09/27/12 02:02
Mineral Spirits	< .1	mg/l			WG613784	09/27/12 02:02
Motor Oil	< .25	mg/l			WG613784	09/27/12 02:02
o-Terphenyl		% Rec.	83.34	50-150	WG613784	09/27/12 02:02
#6 Fuel Oil	< .1	mg/l			WG614470	09/27/12 14:46
Diesel	< .1	mg/l			WG614470	09/27/12 14:46
Hydraulic Fluid	< .1	mg/l			WG614470	09/27/12 14:46
Kerosene	< .1	mg/l			WG614470	09/27/12 14:46
Mineral Spirits	< .1	mg/l			WG614470	09/27/12 14:46
Motor Oil	< .25	mg/l			WG614470	09/27/12 14:46
o-Terphenyl		% Rec.	76.88	50-150	WG614470	09/27/12 14:46
#6 Fuel Oil	< 4	mg/kg			WG614225	09/29/12 03:31
Diesel	< 4	mg/kg			WG614225	09/29/12 03:31
Hydraulic Fluid	< 4	mg/kg			WG614225	09/29/12 03:31
Kerosene	< 4	mg/kg			WG614225	09/29/12 03:31
Mineral Spirits	< 4	mg/kg			WG614225	09/29/12 03:31
Motor Oil	< 10	mg/kg			WG614225	09/29/12 03:31
o-Terphenyl		% Rec.	85.30	50-150	WG614225	09/29/12 03:31

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
#6 Fuel Oil	< 4	mg/kg			WG615640	10/01/12 23:52
Diesel	< 4	mg/kg			WG615640	10/01/12 23:52
Hydraulic Fluid	< 4	mg/kg			WG615640	10/01/12 23:52
Kerosene	< 4	mg/kg			WG615640	10/01/12 23:52
Mineral Spirits	< 4	mg/kg			WG615640	10/01/12 23:52
Motor Oil	< 10	mg/kg			WG615640	10/01/12 23:52
o-Terphenyl		% Rec.	65.34	50-150	WG615640	10/01/12 23:52

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0253	101.	77-128	WG614071
1,1,1-Trichloroethane	mg/l	.025	0.0252	101.	71-126	WG614071
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0225	89.9	78-130	WG614071
1,1,2-Trichloroethane	mg/l	.025	0.0246	98.4	81-121	WG614071
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0253	101.	53-143	WG614071
1,1-Dichloroethane	mg/l	.025	0.0248	99.1	73-123	WG614071
1,1-Dichloroethene	mg/l	.025	0.0238	95.3	54-134	WG614071
1,1-Dichloropropene	mg/l	.025	0.0241	96.2	67-127	WG614071
1,2,3-Trichlorobenzene	mg/l	.025	0.0211	84.3	77-130	WG614071
1,2,3-Trichloropropane	mg/l	.025	0.0236	94.4	68-130	WG614071
1,2,3-Trimethylbenzene	mg/l	.025	0.0231	92.3	77-126	WG614071
1,2,4-Trichlorobenzene	mg/l	.025	0.0225	89.9	76-127	WG614071
1,2,4-Trimethylbenzene	mg/l	.025	0.0243	97.4	77-129	WG614071
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0225	90.1	55-142	WG614071
1,2-Dibromoethane	mg/l	.025	0.0249	99.8	78-124	WG614071
1,2-Dichlorobenzene	mg/l	.025	0.0237	94.7	82-121	WG614071
1,2-Dichloroethane	mg/l	.025	0.0239	95.7	69-128	WG614071
1,2-Dichloropropane	mg/l	.025	0.0241	96.3	77-121	WG614071
1,3,5-Trimethylbenzene	mg/l	.025	0.0245	98.1	78-127	WG614071
1,3-Dichlorobenzene	mg/l	.025	0.0249	99.6	77-127	WG614071
1,3-Dichloropropane	mg/l	.025	0.0236	94.5	78-117	WG614071
1,4-Dichlorobenzene	mg/l	.025	0.0241	96.3	79-117	WG614071
2,2-Dichloropropane	mg/l	.025	0.0240	95.9	63-130	WG614071
2-Butanone (MEK)	mg/l	.125	0.120	96.4	58-144	WG614071
2-Chloroethyl vinyl ether	mg/l	.125	0.117	93.5	26-172	WG614071
2-Chlorotoluene	mg/l	.025	0.0248	99.2	78-123	WG614071
4-Chlorotoluene	mg/l	.025	0.0248	99.4	78-122	WG614071
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.117	93.8	58-147	WG614071
Acetone	mg/l	.125	0.124	99.5	49-153	WG614071
Acrolein	mg/l	.125	0.0595	47.6	10-181	WG614071
Acrylonitrile	mg/l	.125	0.125	99.9	53-153	WG614071
Benzene	mg/l	.025	0.0239	95.7	72-119	WG614071
Bromobenzene	mg/l	.025	0.0242	96.8	76-121	WG614071
Bromodichloromethane	mg/l	.025	0.0226	90.6	75-127	WG614071
Bromoform	mg/l	.025	0.0247	98.6	61-136	WG614071
Bromomethane	mg/l	.025	0.0233	93.1	42-172	WG614071
Carbon tetrachloride	mg/l	.025	0.0232	92.9	63-129	WG614071
Chlorobenzene	mg/l	.025	0.0245	98.2	78-123	WG614071
Chlorodibromomethane	mg/l	.025	0.0251	100.	73-128	WG614071
Chloroethane	mg/l	.025	0.0241	96.3	52-164	WG614071
Chloroform	mg/l	.025	0.0248	99.4	76-122	WG614071
Chloromethane	mg/l	.025	0.0226	90.5	50-141	WG614071
cis-1,2-Dichloroethene	mg/l	.025	0.0241	96.5	75-121	WG614071
cis-1,3-Dichloropropene	mg/l	.025	0.0239	95.6	74-124	WG614071
Di-isopropyl ether	mg/l	.025	0.0244	97.6	66-129	WG614071
Dibromomethane	mg/l	.025	0.0235	94.0	77-124	WG614071
Dichlorodifluoromethane	mg/l	.025	0.0227	90.6	33-173	WG614071
Ethylbenzene	mg/l	.025	0.0254	102.	77-124	WG614071

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Hexachloro-1,3-butadiene	**mg/l**	**.025**	**0.0221**	**88.5**	**71-134**	**WG614071**
Isopropylbenzene	mg/l	.025	0.0263	105.	74-126	WG614071
Methyl tert-butyl ether	mg/l	.025	0.0241	96.6	67-127	WG614071
Methylene Chloride	**mg/l**	**.025**	**0.0249**	**99.8**	**67-122**	**WG614071**
n-Butylbenzene	mg/l	.025	0.0242	97.0	74-130	WG614071
n-Propylbenzene	mg/l	.025	0.0253	101.	77-125	WG614071
Naphthalene	**mg/l**	**.025**	**0.0208**	**83.3**	**70-134**	**WG614071**
p-Isopropyltoluene	mg/l	.025	0.0250	100.	77-132	WG614071
sec-Butylbenzene	mg/l	.025	0.0250	100.	77-130	WG614071
Styrene	**mg/l**	**.025**	**0.0255**	**102.**	**69-145**	**WG614071**
tert-Butylbenzene	mg/l	.025	0.0253	101.	76-131	WG614071
Tetrachloroethene	mg/l	.025	0.0255	102.	69-131	WG614071
Toluene	**mg/l**	**.025**	**0.0233**	**93.3**	**75-114**	**WG614071**
trans-1,2-Dichloroethene	mg/l	.025	0.0243	97.0	63-127	WG614071
trans-1,3-Dichloropropene	mg/l	.025	0.0238	95.0	69-124	WG614071
Trichloroethene	**mg/l**	**.025**	**0.0238**	**95.1**	**69-131**	**WG614071**
Trichlorofluoromethane	mg/l	.025	0.0263	105.	53-161	WG614071
Vinyl chloride	mg/l	.025	0.0233	93.4	55-142	WG614071
Xylenes, Total	**mg/l**	**.075**	**0.0748**	**99.8**	**77-123**	**WG614071**
4-Bromofluorobenzene				105.8	82-120	WG614071
Dibromofluoromethane				106.6	82-126	WG614071
Toluene-d8				**105.8**	**92-112**	**WG614071**
TPH (GC/FID) Low Fraction	mg/kg	5.5	7.14	130.	67-135	WG614034
a,a,a-Trifluorotoluene(FID)				**105.9**	**59-128**	**WG614034**
Benzene	mg/kg	.05	0.0435	87.0	76-113	WG614034
Ethylbenzene	mg/kg	.05	0.0523	105.	78-115	WG614034
Methyl tert-butyl ether	**mg/kg**	**.05**	**0.0434**	**86.9**	**37-145**	**WG614034**
Toluene	mg/kg	.05	0.0494	98.9	76-114	WG614034
Total Xylene	mg/kg	.15	0.164	109.	81-118	WG614034
a,a,a-Trifluorotoluene(FID)				**102.6**	**59-128**	**WG614034**
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0259	104.	77-129	WG614031
1,1,1-Trichloroethane	**mg/kg**	**.025**	**0.0269**	**108.**	**70-127**	**WG614031**
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0274	110.	76-133	WG614031
1,1,2-Trichloroethane	mg/kg	.025	0.0263	105.	79-123	WG614031
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**.025**	**0.0249**	**99.4**	**52-145**	**WG614031**
1,1-Dichloroethane	mg/kg	.025	0.0274	110.	74-121	WG614031
1,1-Dichloroethene	mg/kg	.025	0.0264	106.	53-135	WG614031
1,1-Dichloropropene	**mg/kg**	**.025**	**0.0268**	**107.**	**67-127**	**WG614031**
1,2,3-Trichlorobenzene	mg/kg	.025	0.0257	103.	74-131	WG614031
1,2,3-Trichloropropane	mg/kg	.025	0.0273	109.	75-135	WG614031
1,2,3-Trimethylbenzene	**mg/kg**	**.025**	**0.0254**	**102.**	**76-128**	**WG614031**
1,2,4-Trichlorobenzene	mg/kg	.025	0.0250	100.	72-130	WG614031
1,2,4-Trimethylbenzene	mg/kg	.025	0.0263	105.	75-131	WG614031
1,2-Dibromo-3-Chloropropane	**mg/kg**	**.025**	**0.0246**	**98.3**	**55-142**	**WG614031**
1,2-Dibromoethane	mg/kg	.025	0.0272	109.	77-126	WG614031
1,2-Dichlorobenzene	mg/kg	.025	0.0260	104.	80-123	WG614031
1,2-Dichloroethane	**mg/kg**	**.025**	**0.0279**	**112.**	**70-128**	**WG614031**
1,2-Dichloropropane	mg/kg	.025	0.0268	107.	74-125	WG614031
1,3,5-Trimethylbenzene	mg/kg	.025	0.0259	103.	77-129	WG614031
1,3-Dichlorobenzene	**mg/kg**	**.025**	**0.0268**	**107.**	**76-128**	**WG614031**
1,3-Dichloropropane	mg/kg	.025	0.0265	106.	77-118	WG614031
1,4-Dichlorobenzene	mg/kg	.025	0.0254	102.	77-119	WG614031
2,2-Dichloropropane	**mg/kg**	**.025**	**0.0261**	**104.**	**60-132**	**WG614031**
2-Butanone (MEK)	mg/kg	.125	0.114	91.1	56-146	WG614031
2-Chloroethyl vinyl ether	mg/kg	.125	0.139	111.	17-179	WG614031

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chlorotoluene	**mg/kg**	**.025**	**0.0269**	**107.**	**76-125**	**WG614031**
4-Chlorotoluene	mg/kg	.025	0.0260	104.	76-125	WG614031
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.140	112.	55-148	WG614031
Acetone	**mg/kg**	**.125**	**0.104**	**83.5**	**47-155**	**WG614031**
Acrylonitrile	mg/kg	.125	0.142	113.	50-155	WG614031
Benzene	mg/kg	.025	0.0272	109.	72-120	WG614031
Bromobenzene	**mg/kg**	**.025**	**0.0258**	**103.**	**74-122**	**WG614031**
Bromodichloromethane	mg/kg	.025	0.0256	102.	74-128	WG614031
Bromoform	mg/kg	.025	0.0251	100.	62-137	WG614031
Bromomethane	**mg/kg**	**.025**	**0.0308**	**123.**	**38-180**	**WG614031**
Carbon tetrachloride	mg/kg	.025	0.0260	104.	62-130	WG614031
Chlorobenzene	mg/kg	.025	0.0260	104.	77-124	WG614031
Chlorodibromomethane	**mg/kg**	**.025**	**0.0251**	**100.**	**74-128**	**WG614031**
Chloroethane	mg/kg	.025	0.0304	122.	46-173	WG614031
Chloroform	mg/kg	.025	0.0263	105.	76-122	WG614031
Chloromethane	**mg/kg**	**.025**	**0.0258**	**103.**	**49-143**	**WG614031**
cis-1,2-Dichloroethene	mg/kg	.025	0.0275	110.	73-123	WG614031
cis-1,3-Dichloropropene	mg/kg	.025	0.0269	108.	73-126	WG614031
Di-isopropyl ether	**mg/kg**	**.025**	**0.0271**	**109.**	**64-131**	**WG614031**
Dibromomethane	mg/kg	.025	0.0268	107.	75-127	WG614031
Dichlorodifluoromethane	mg/kg	.025	0.0250	100.	30-177	WG614031
Ethylbenzene	**mg/kg**	**.025**	**0.0260**	**104.**	**76-126**	**WG614031**
Hexachloro-1,3-butadiene	mg/kg	.025	0.0252	101.	71-134	WG614031
Isopropylbenzene	mg/kg	.025	0.0254	102.	70-128	WG614031
Methyl tert-butyl ether	**mg/kg**	**.025**	**0.0278**	**111.**	**66-127**	**WG614031**
Methylene Chloride	mg/kg	.025	0.0286	115.	67-124	WG614031
n-Butylbenzene	mg/kg	.025	0.0253	101.	71-133	WG614031
n-Propylbenzene	**mg/kg**	**.025**	**0.0264**	**106.**	**76-126**	**WG614031**
Naphthalene	mg/kg	.025	0.0256	102.	68-136	WG614031
p-Isopropyltoluene	mg/kg	.025	0.0262	105.	75-134	WG614031
sec-Butylbenzene	**mg/kg**	**.025**	**0.0261**	**104.**	**75-132**	**WG614031**
Styrene	mg/kg	.025	0.0270	108.	68-148	WG614031
tert-Butylbenzene	mg/kg	.025	0.0258	103.	75-132	WG614031
Tetrachloroethene	**mg/kg**	**.025**	**0.0266**	**106.**	**70-131**	**WG614031**
Toluene	mg/kg	.025	0.0256	102.	74-155	WG614031
trans-1,2-Dichloroethene	mg/kg	.025	0.0268	107.	63-126	WG614031
trans-1,3-Dichloropropene	**mg/kg**	**.025**	**0.0278**	**111.**	**68-126**	**WG614031**
Trichloroethene	mg/kg	.025	0.0273	109.	75-121	WG614031
Trichlorofluoromethane	mg/kg	.025	0.0288	115.	48-170	WG614031
Vinyl chloride	**mg/kg**	**.025**	**0.0266**	**106.**	**54-144**	**WG614031**
Xylenes, Total	mg/kg	.075	0.0787	105.	76-126	WG614031
4-Bromofluorobenzene				102.5	67-133	WG614031
Dibromofluoromethane				**102.3**	**72-135**	**WG614031**
Toluene-d8				101.8	90-113	WG614031
Benzene	**mg/l**	**.05**	**0.0453**	**90.6**	**79-114**	**WG614251**
Ethylbenzene	mg/l	.05	0.0557	111.	80-116	WG614251
Methyl tert-butyl ether	mg/l	.05	0.0407	81.3	64-125	WG614251
Toluene	**mg/l**	**.05**	**0.0510**	**102.**	**79-112**	**WG614251**
Total Xylene	mg/l	.15	0.166	110.	84-118	WG614251
a,a,a-Trifluorotoluene(PID)				103.7	55-122	WG614251
TPH (GC/FID) Low Fraction	**mg/l**	**5.5**	**5.25**	**95.5**	**70-124**	**WG614251**
a,a,a-Trifluorotoluene(FID)				96.16	62-128	WG614251
1,1,1,2-Tetrachloroethane	**mg/kg**	**.025**	**0.0223**	**89.1**	**77-129**	**WG614033**
1,1,1-Trichloroethane	mg/kg	.025	0.0238	95.1	70-127	WG614033
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0219	87.5	76-133	WG614033

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloroethane	**mg/kg**	**.025**	**0.0222**	**88.9**	**79-123**	**WG614033**
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0213	85.3	52-145	WG614033
1,1-Dichloroethane	mg/kg	.025	0.0217	86.8	74-121	WG614033
1,1-Dichloroethene	**mg/kg**	**.025**	**0.0199**	**79.8**	**53-135**	**WG614033**
1,1-Dichloropropene	mg/kg	.025	0.0212	84.9	67-127	WG614033
1,2,3-Trichlorobenzene	mg/kg	.025	0.0209	83.5	74-131	WG614033
1,2,3-Trichloropropane	**mg/kg**	**.025**	**0.0240**	**95.9**	**75-135**	**WG614033**
1,2,3-Trimethylbenzene	mg/kg	.025	0.0217	86.9	76-128	WG614033
1,2,4-Trichlorobenzene	mg/kg	.025	0.0217	86.7	72-130	WG614033
1,2,4-Trimethylbenzene	**mg/kg**	**.025**	**0.0216**	**86.3**	**75-131**	**WG614033**
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0241	96.3	55-142	WG614033
1,2-Dibromoethane	mg/kg	.025	0.0229	91.7	77-126	WG614033
1,2-Dichlorobenzene	**mg/kg**	**.025**	**0.0228**	**91.3**	**80-123**	**WG614033**
1,2-Dichloroethane	mg/kg	.025	0.0260	104.	70-128	WG614033
1,2-Dichloropropane	mg/kg	.025	0.0215	85.9	74-125	WG614033
1,3,5-Trimethylbenzene	**mg/kg**	**.025**	**0.0222**	**88.9**	**77-129**	**WG614033**
1,3-Dichlorobenzene	mg/kg	.025	0.0218	87.2	76-128	WG614033
1,3-Dichloropropane	mg/kg	.025	0.0219	87.6	77-118	WG614033
1,4-Dichlorobenzene	**mg/kg**	**.025**	**0.0225**	**89.9**	**77-119**	**WG614033**
2,2-Dichloropropane	mg/kg	.025	0.0213	85.3	60-132	WG614033
2-Butanone (MEK)	mg/kg	.125	0.149	119.	56-146	WG614033
2-Chloroethyl vinyl ether	**mg/kg**	**.125**	**0.118**	**94.3**	**17-179**	**WG614033**
2-Chlorotoluene	mg/kg	.025	0.0219	87.6	76-125	WG614033
4-Chlorotoluene	mg/kg	.025	0.0221	88.6	76-125	WG614033
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**.125**	**0.131**	**105.**	**55-148**	**WG614033**
Acetone	mg/kg	.125	0.173	138.	47-155	WG614033
Acrylonitrile	mg/kg	.125	0.113	90.8	50-155	WG614033
Benzene	**mg/kg**	**.025**	**0.0208**	**83.1**	**72-120**	**WG614033**
Bromobenzene	mg/kg	.025	0.0223	89.1	74-122	WG614033
Bromodichloromethane	mg/kg	.025	0.0249	99.7	74-128	WG614033
Bromoform	**mg/kg**	**.025**	**0.0242**	**96.7**	**62-137**	**WG614033**
Bromomethane	mg/kg	.025	0.0202	80.7	38-180	WG614033
Carbon tetrachloride	mg/kg	.025	0.0230	92.0	62-130	WG614033
Chlorobenzene	**mg/kg**	**.025**	**0.0215**	**85.8**	**77-124**	**WG614033**
Chlorodibromomethane	mg/kg	.025	0.0240	96.0	74-128	WG614033
Chloroethane	mg/kg	.025	0.0204	81.7	46-173	WG614033
Chloroform	**mg/kg**	**.025**	**0.0235**	**94.2**	**76-122**	**WG614033**
Chloromethane	mg/kg	.025	0.0207	82.6	49-143	WG614033
cis-1,2-Dichloroethene	mg/kg	.025	0.0212	84.9	73-123	WG614033
cis-1,3-Dichloropropene	**mg/kg**	**.025**	**0.0230**	**92.2**	**73-126**	**WG614033**
Di-isopropyl ether	mg/kg	.025	0.0209	83.5	64-131	WG614033
Dibromomethane	mg/kg	.025	0.0244	97.5	75-127	WG614033
Dichlorodifluoromethane	**mg/kg**	**.025**	**0.0232**	**93.0**	**30-177**	**WG614033**
Ethylbenzene	mg/kg	.025	0.0213	85.2	76-126	WG614033
Hexachloro-1,3-butadiene	mg/kg	.025	0.0211	84.5	71-134	WG614033
Isopropylbenzene	**mg/kg**	**.025**	**0.0223**	**89.3**	**70-128**	**WG614033**
Methyl tert-butyl ether	mg/kg	.025	0.0216	86.5	66-127	WG614033
Methylene Chloride	mg/kg	.025	0.0179	71.7	67-124	WG614033
n-Butylbenzene	**mg/kg**	**.025**	**0.0221**	**88.3**	**71-133**	**WG614033**
n-Propylbenzene	mg/kg	.025	0.0215	86.2	76-126	WG614033
Naphthalene	mg/kg	.025	0.0219	87.7	68-136	WG614033
p-Isopropyltoluene	**mg/kg**	**.025**	**0.0220**	**87.9**	**75-134**	**WG614033**
sec-Butylbenzene	mg/kg	.025	0.0211	84.2	75-132	WG614033
Styrene	mg/kg	.025	0.0211	84.3	68-148	WG614033
tert-Butylbenzene	**mg/kg**	**.025**	**0.0222**	**89.0**	**75-132**	**WG614033**
Tetrachloroethene	mg/kg	.025	0.0207	82.7	70-131	WG614033
Toluene	mg/kg	.025	0.0216	86.3	74-155	WG614033
trans-1,2-Dichloroethene	**mg/kg**	**.025**	**0.0192**	**77.0**	**63-126**	**WG614033**
trans-1,3-Dichloropropene	mg/kg	.025	0.0245	97.9	68-126	WG614033

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Trichloroethene	**mg/kg**	**.025**	**0.0208**	**83.1**	**75-121**	**WG614033**
Trichlorofluoromethane	mg/kg	.025	0.0240	96.1	48-170	WG614033
Vinyl chloride	mg/kg	.025	0.0195	77.8	54-144	WG614033
Xylenes, Total	**mg/kg**	**.075**	**0.0641**	**85.4**	**76-126**	**WG614033**
4-Bromofluorobenzene				104.8	67-133	WG614033
Dibromofluoromethane				106.6	72-135	WG614033
Toluene-d8				**107.2**	**90-113**	**WG614033**
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0222	88.8	77-129	WG614030
1,1,1-Trichloroethane	**mg/kg**	**.025**	**0.0199**	**79.4**	**70-127**	**WG614030**
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0215	85.8	76-133	WG614030
1,1,2-Trichloroethane	mg/kg	.025	0.0216	86.4	79-123	WG614030
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**.025**	**0.0198**	**79.3**	**52-145**	**WG614030**
1,1-Dichloroethane	mg/kg	.025	0.0202	80.8	74-121	WG614030
1,1-Dichloroethene	mg/kg	.025	0.0193	77.2	53-135	WG614030
1,1-Dichloropropene	**mg/kg**	**.025**	**0.0195**	**78.0**	**57-127**	**WG614030**
1,2,3-Trichlorobenzene	mg/kg	.025	0.0256	102.	74-131	WG614030
1,2,3-Trichloropropane	mg/kg	.025	0.0217	86.8	75-135	WG614030
1,2,3-Trimethylbenzene	**mg/kg**	**.025**	**0.0235**	**93.8**	**76-128**	**WG614030**
1,2,4-Trichlorobenzene	mg/kg	.025	0.0245	97.9	72-130	WG614030
1,2,4-Trimethylbenzene	mg/kg	.025	0.0213	85.1	75-131	WG614030
1,2-Dibromo-3-Chloropropane	**mg/kg**	**.025**	**0.0237**	**94.9**	**55-142**	**WG614030**
1,2-Dibromoethane	mg/kg	.025	0.0216	86.5	77-126	WG614030
1,2-Dichlorobenzene	mg/kg	.025	0.0237	95.0	80-123	WG614030
1,2-Dichloroethane	**mg/kg**	**.025**	**0.0194**	**77.5**	**70-128**	**WG614030**
1,2-Dichloropropane	mg/kg	.025	0.0210	84.0	74-125	WG614030
1,3,5-Trimethylbenzene	mg/kg	.025	0.0213	85.0	77-129	WG614030
1,3-Dichlorobenzene	**mg/kg**	**.025**	**0.0213**	**85.3**	**76-128**	**WG614030**
1,3-Dichloropropane	mg/kg	.025	0.0216	86.4	77-118	WG614030
1,4-Dichlorobenzene	mg/kg	.025	0.0234	93.4	77-119	WG614030
2,2-Dichloropropane	**mg/kg**	**.025**	**0.0198**	**79.0**	**60-132**	**WG614030**
2-Butanone (MEK)	mg/kg	.125	0.106	84.6	56-146	WG614030
2-Chloroethyl vinyl ether	mg/kg	.125	0.107	85.8	17-179	WG614030
2-Chlorotoluene	**mg/kg**	**.025**	**0.0212**	**85.0**	**76-125**	**WG614030**
4-Chlorotoluene	mg/kg	.025	0.0213	85.1	76-125	WG614030
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.105	84.1	55-148	WG614030
Acetone	**mg/kg**	**.125**	**0.107**	**85.3**	**47-155**	**WG614030**
Acrylonitrile	mg/kg	.125	0.103	82.8	50-155	WG614030
Benzene	mg/kg	.025	0.0197	78.8	72-120	WG614030
Bromobenzene	**mg/kg**	**.025**	**0.0210**	**84.1**	**74-122**	**WG614030**
Bromodichloromethane	mg/kg	.025	0.0206	82.2	74-128	WG614030
Bromoform	mg/kg	.025	0.0224	89.8	62-137	WG614030
Bromomethane	**mg/kg**	**.025**	**0.0215**	**86.1**	**38-180**	**WG614030**
Carbon tetrachloride	mg/kg	.025	0.0194	77.5	62-130	WG614030
Chlorobenzene	mg/kg	.025	0.0213	85.3	77-124	WG614030
Chlorodibromomethane	**mg/kg**	**.025**	**0.0223**	**89.3**	**74-128**	**WG614030**
Chloroethane	mg/kg	.025	0.0196	78.3	46-173	WG614030
Chloroform	mg/kg	.025	0.0200	79.9	76-122	WG614030
Chloromethane	**mg/kg**	**.025**	**0.0141**	**56.5**	**49-143**	**WG614030**
cis-1,2-Dichloroethene	mg/kg	.025	0.0199	79.7	73-123	WG614030
cis-1,3-Dichloropropene	mg/kg	.025	0.0211	84.3	73-126	WG614030
Di-isopropyl ether	**mg/kg**	**.025**	**0.0203**	**81.0**	**64-131**	**WG614030**
Dibromomethane	mg/kg	.025	0.0205	81.9	75-127	WG614030
Dichlorodifluoromethane	mg/kg	.025	0.0175	70.2	30-177	WG614030
Ethylbenzene	**mg/kg**	**.025**	**0.0218**	**87.1**	**76-126**	**WG614030**
Hexachloro-1,3-butadiene	mg/kg	.025	0.0248	99.0	71-134	WG614030
Isopropylbenzene	mg/kg	.025	0.0218	87.3	70-128	WG614030
Methyl **tert-butyl ether**	**mg/kg**	**.025**	**0.0197**	**78.6**	**66-127**	**WG614030**

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Karen O'Connor
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Lincoln, NE 68508

Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Methylene Chloride	**mg/kg**	**.025**	**0.0187**	**74.7**	**67-124**	**WG614030**
n-Butylbenzene	mg/kg	.025	0.0242	96.7	71-133	WG614030
n-Propylbenzene	mg/kg	.025	0.0216	86.3	76-126	WG614030
Naphthalene	**mg/kg**	**.025**	**0.0246**	**98.3**	**68-136**	**WG614030**
p-Isopropyltoluene	mg/kg	.025	0.0217	86.8	75-134	WG614030
sec-Butylbenzene	mg/kg	.025	0.0214	85.5	75-132	WG614030
Styrene	**mg/kg**	**.025**	**0.0220**	**88.0**	**68-148**	**WG614030**
tert-Butylbenzene	mg/kg	.025	0.0216	86.4	75-132	WG614030
Tetrachloroethene	mg/kg	.025	0.0216	86.5	70-131	WG614030
Toluene	**mg/kg**	**.025**	**0.0198**	**79.4**	**74-155**	**WG614030**
trans-1,2-Dichloroethene	mg/kg	.025	0.0199	79.5	63-126	WG614030
trans-1,3-Dichloropropene	mg/kg	.025	0.0210	84.0	68-126	WG614030
Trichloroethene	**mg/kg**	**.025**	**0.0204**	**81.6**	**75-121**	**WG614030**
Trichlorofluoromethane	mg/kg	.025	0.0197	78.7	48-170	WG614030
Vinyl chloride	mg/kg	.025	0.0192	76.7	54-144	WG614030
Xylenes, Total	**mg/kg**	**.075**	**0.0638**	**85.1**	**76-126**	**WG614030**
4-Bromofluorobenzene				86.81	67-133	WG614030
Dibromofluoromethane				91.97	72-135	WG614030
Toluene-d8				**93.63**	**90-113**	**WG614030**
Benzene	mg/kg	.05	0.0489	97.8	76-113	WG614452
Ethylbenzene	**mg/kg**	**.05**	**0.0540**	**108.**	**78-115**	**WG614452**
Methyl tert-butyl ether	mg/kg	.05	0.0474	94.8	37-145	WG614452
Toluene	mg/kg	.05	0.0518	104.	76-114	WG614452
Total Xylene	**mg/kg**	**.15**	**0.157**	**105.**	**81-118**	**WG614452**
a,a,a-Trifluorotoluene(PID)				105.5	54-144	WG614452
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.12	111.	67-135	WG614452
a,a,a-Trifluorotoluene(FID)				**105.6**	**59-128**	**WG614452**
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0262	105.	77-129	WG614631
1,1,1-Trichloroethane	**mg/kg**	**.025**	**0.0258**	**103.**	**70-127**	**WG614631**
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0257	103.	76-133	WG614631
1,1,2-Trichloroethane	mg/kg	.025	0.0266	107.	79-123	WG614631
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**.025**	**0.0244**	**97.6**	**52-145**	**WG614631**
1,1-Dichloroethane	mg/kg	.025	0.0273	109.	74-121	WG614631
1,1-Dichloroethene	mg/kg	.025	0.0267	107.	53-135	WG614631
1,1-Dichloropropene	**mg/kg**	**.025**	**0.0269**	**108.**	**67-127**	**WG614631**
1,2,3-Trichlorobenzene	mg/kg	.025	0.0249	99.6	74-131	WG614631
1,2,3-Trichloropropane	mg/kg	.025	0.0253	101.	75-135	WG614631
1,2,3-Trimethylbenzene	**mg/kg**	**.025**	**0.0252**	**101.**	**76-128**	**WG614631**
1,2,4-Trichlorobenzene	mg/kg	.025	0.0243	97.2	72-130	WG614631
1,2,4-Trimethylbenzene	mg/kg	.025	0.0265	106.	75-131	WG614631
1,2-Dibromo-3-Chloropropane	**mg/kg**	**.025**	**0.0239**	**95.8**	**55-142**	**WG614631**
1,2-Dibromoethane	mg/kg	.025	0.0274	110.	77-126	WG614631
1,2-Dichlorobenzene	mg/kg	.025	0.0257	103.	80-123	WG614631
1,2-Dichloroethane	**mg/kg**	**.025**	**0.0282**	**113.**	**70-128**	**WG614631**
1,2-Dichloropropane	mg/kg	.025	0.0272	109.	74-125	WG614631
1,3,5-Trimethylbenzene	mg/kg	.025	0.0260	104.	77-129	WG614631
1,3-Dichlorobenzene	**mg/kg**	**.025**	**0.0274**	**110.**	**76-128**	**WG614631**
1,3-Dichloropropane	mg/kg	.025	0.0268	107.	77-118	WG614631
1,4-Dichlorobenzene	mg/kg	.025	0.0245	97.9	77-119	WG614631
2,2-Dichloropropane	**mg/kg**	**.025**	**0.0251**	**100.**	**60-132**	**WG614631**
2-Butanone (MEK)	mg/kg	.125	0.0977	78.1	56-146	WG614631
2-Chloroethyl vinyl ether	mg/kg	.125	0.135	108.	17-179	WG614631
2-Chlorotoluene	**mg/kg**	**.025**	**0.0271**	**108.**	**76-125**	**WG614631**
4-Chlorotoluene	mg/kg	.025	0.0261	104.	76-125	WG614631
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.124	99.0	55-148	WG614631

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acetone	**mg/kg**	**.125**	**0.0909**	**72.7**	**47-155**	**WG614631**
Acrylonitrile	mg/kg	.125	0.128	102.	50-155	WG614631
Benzene	mg/kg	.025	0.0278	111.	72-120	WG614631
Bromobenzene	**mg/kg**	**.025**	**0.0258**	**103.**	**74-122**	**WG614631**
Bromodichloromethane	mg/kg	.025	0.0257	103.	74-128	WG614631
Bromoform	mg/kg	.025	0.0245	97.9	62-137	WG614631
Bromomethane	**mg/kg**	**.025**	**0.0326**	**131.**	**38-180**	**WG614631**
Carbon tetrachloride	mg/kg	.025	0.0258	103.	62-130	WG614631
Chlorobenzene	mg/kg	.025	0.0275	110.	77-124	WG614631
Chlorodibromomethane	**mg/kg**	**.025**	**0.0261**	**104.**	**74-128**	**WG614631**
Chloroethane	mg/kg	.025	0.0323	129.	46-173	WG614631
Chloroform	mg/kg	.025	0.0270	108.	76-122	WG614631
Chloromethane	**mg/kg**	**.025**	**0.0284**	**114.**	**49-143**	**WG614631**
cis-1,2-Dichloroethene	mg/kg	.025	0.0278	111.	73-123	WG614631
cis-1,3-Dichloropropene	mg/kg	.025	0.0271	109.	73-126	WG614631
Di-isopropyl ether	**mg/kg**	**.025**	**0.0268**	**107.**	**64-131**	**WG614631**
Dibromomethane	mg/kg	.025	0.0263	105.	75-127	WG614631
Dichlorodifluoromethane	mg/kg	.025	0.0267	107.	30-177	WG614631
Ethylbenzene	**mg/kg**	**.025**	**0.0267**	**107.**	**76-126**	**WG614631**
Hexachloro-1,3-butadiene	mg/kg	.025	0.0238	95.3	71-134	WG614631
Isopropylbenzene	mg/kg	.025	0.0252	101.	70-128	WG614631
Methyl tert-butyl ether	**mg/kg**	**.025**	**0.0267**	**107.**	**66-127**	**WG614631**
Methylene Chloride	mg/kg	.025	0.0273	109.	67-124	WG614631
n-Butylbenzene	mg/kg	.025	0.0239	95.5	71-133	WG614631
n-Propylbenzene	**mg/kg**	**.025**	**0.0260**	**104.**	**76-126**	**WG614631**
Naphthalene	mg/kg	.025	0.0241	96.4	68-136	WG614631
p-Isopropyltoluene	mg/kg	.025	0.0258	103.	75-134	WG614631
sec-Butylbenzene	**mg/kg**	**.025**	**0.0254**	**102.**	**75-132**	**WG614631**
Styrene	mg/kg	.025	0.0270	108.	68-148	WG614631
tert-Butylbenzene	mg/kg	.025	0.0266	106.	75-132	WG614631
Tetrachloroethene	**mg/kg**	**.025**	**0.0276**	**111.**	**70-131**	**WG614631**
Toluene	mg/kg	.025	0.0263	105.	74-155	WG614631
trans-1,2-Dichloroethene	mg/kg	.025	0.0269	108.	63-126	WG614631
trans-1,3-Dichloropropene	**mg/kg**	**.025**	**0.0275**	**110.**	**68-126**	**WG614631**
Trichloroethene	mg/kg	.025	0.0272	109.	75-121	WG614631
Trichlorofluoromethane	mg/kg	.025	0.0296	118.	48-170	WG614631
Vinyl chloride	**mg/kg**	**.025**	**0.0278**	**111.**	**54-144**	**WG614631**
Xylenes, Total	mg/kg	.075	0.0807	108.	76-126	WG614631
4-Bromofluorobenzene				99.91	67-133	WG614631
Dibromofluoromethane				**102.7**	**72-135**	**WG614631**
Toluene-d8				101.5	90-113	WG614631
Diesel	**mg/l**	**.75**	**0.619**	**82.6**	**50-150**	**WG613784**
Motor Oil	mg/l	.75	0.715	95.4	50-150	WG613784
o-Terphenyl				87.89	50-150	WG613784
Diesel	mg/l	.75	0.613	81.8	50-150	WG614470
Motor Oil	mg/l	.75	0.737	98.3	50-150	WG614470
o-Terphenyl				**86.36**	**50-150**	**WG614470**
Diesel	mg/kg	30	23.9	79.7	50-150	WG614225
Motor Oil	**mg/kg**	**30**	**23.5**	**78.4**	**50-150**	**WG614225**
o-Terphenyl				74.46	50-150	WG614225
Diesel	**mg/kg**	**30**	**18.1**	**60.4**	**50-150**	**WG615640**

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Motor Oil	mg/kg	30	19.4	64.6	50-150	WG615640
o-Terphenyl				58.43	50-150	WG615640

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0255	0.0253	102.	77-128	0.760	20	WG614071
1,1,1-Trichloroethane	mg/l	0.0252	0.0252	101.	71-126	0.0200	20	WG614071
1,1,2,2-Tetrachloroethane	mg/l	0.0245	0.0225	98.0	78-130	8.77	20	WG614071
1,1,2-Trichloroethane	mg/l	0.0251	0.0246	100.	81-121	2.00	20	WG614071
1,1,2-Trichlorotrifluoroethane	mg/l	0.0258	0.0253	103.	53-143	1.86	20	WG614071
1,1-Dichloroethane	mg/l	0.0250	0.0248	100.	73-123	0.750	20	WG614071
1,1-Dichloroethene	mg/l	0.0249	0.0238	100.	54-134	4.36	20	WG614071
1,1-Dichloropropene	mg/l	0.0247	0.0241	99.0	67-127	2.76	20	WG614071
1,2,3-Trichlorobenzene	mg/l	0.0223	0.0211	89.0	77-130	5.89	20	WG614071
1,2,3-Trichloropropane	mg/l	0.0246	0.0236	98.0	68-130	4.14	20	WG614071
1,2,3-Trimethylbenzene	mg/l	0.0239	0.0231	95.0	77-126	3.31	20	WG614071
1,2,4-Trichlorobenzene	mg/l	0.0238	0.0225	95.0	76-127	5.87	20	WG614071
1,2,4-Trimethylbenzene	mg/l	0.0242	0.0243	97.0	77-129	0.660	20	WG614071
1,2-Dibromo-3-Chloropropane	mg/l	0.0247	0.0225	99.0	55-142	9.12	20	WG614071
1,2-Dibromoethane	mg/l	0.0248	0.0249	99.0	78-124	0.730	20	WG614071
1,2-Dichlorobenzene	mg/l	0.0249	0.0237	100.	82-121	5.07	20	WG614071
1,2-Dichloroethane	mg/l	0.0249	0.0239	100.	69-128	3.90	20	WG614071
1,2-Dichloropropane	mg/l	0.0247	0.0241	99.0	77-121	2.55	20	WG614071
1,3,5-Trimethylbenzene	mg/l	0.0248	0.0245	99.0	78-127	1.28	20	WG614071
1,3-Dichlorobenzene	mg/l	0.0250	0.0249	100.	77-127	0.560	20	WG614071
1,3-Dichloropropane	mg/l	0.0243	0.0236	97.0	78-117	2.87	20	WG614071
1,4-Dichlorobenzene	mg/l	0.0245	0.0241	98.0	79-117	1.88	20	WG614071
2,2-Dichloropropane	mg/l	0.0250	0.0240	100.	63-130	4.05	20	WG614071
2-Butanone (MEK)	mg/l	0.130	0.120	104.	58-144	7.50	20	WG614071
2-Chloroethyl vinyl ether	mg/l	0.124	0.117	99.0	26-172	5.64	22	WG614071
2-Chlorotoluene	mg/l	0.0247	0.0248	99.0	78-123	0.380	20	WG614071
4-Chlorotoluene	mg/l	0.0243	0.0248	97.0	78-122	2.25	20	WG614071
4-Methyl-2-pentanone (MIBK)	mg/l	0.133	0.117	106.	58-147	12.6	20	WG614071
Acetone	mg/l	0.143	0.124	114.	49-153	13.8	21	WG614071
Acrolein	mg/l	0.0628	0.0595	50.0	10-181	5.41	30	WG614071
Acrylonitrile	mg/l	0.139	0.125	112.	53-153	11.0	20	WG614071
Benzene	mg/l	0.0245	0.0239	98.0	72-119	2.41	20	WG614071
Bromobenzene	mg/l	0.0241	0.0242	96.0	76-121	0.280	20	WG614071
Bromodichloromethane	mg/l	0.0237	0.0226	95.0	75-127	4.44	20	WG614071
Bromoform	mg/l	0.0258	0.0247	103.	61-136	4.69	20	WG614071
Bromomethane	mg/l	0.0234	0.0233	93.0	42-172	0.430	20	WG614071
Carbon tetrachloride	mg/l	0.0236	0.0232	94.0	63-129	1.39	20	WG614071
Chlorobenzene	mg/l	0.0242	0.0245	97.0	78-123	1.26	20	WG614071
Chlorodibromomethane	mg/l	0.0247	0.0251	99.0	73-128	1.84	20	WG614071
Chloroethane	mg/l	0.0247	0.0241	99.0	52-164	2.65	20	WG614071
Chloroform	mg/l	0.0250	0.0248	100.	76-122	0.750	20	WG614071
Chloromethane	mg/l	0.0231	0.0226	92.0	50-141	1.99	20	WG614071
cis-1,2-Dichloroethene	mg/l	0.0245	0.0241	98.0	75-121	1.50	20	WG614071
cis-1,3-Dichloropropene	mg/l	0.0246	0.0239	98.0	74-124	2.86	20	WG614071
Di-isopropyl ether	mg/l	0.0254	0.0244	101.	66-129	3.96	20	WG614071
Dibromomethane	mg/l	0.0249	0.0235	100.	77-124	5.74	20	WG614071
Dichlorodifluoromethane	mg/l	0.0232	0.0227	93.0	33-173	2.16	20	WG614071
Ethylbenzene	mg/l	0.0249	0.0254	100.	77-124	1.96	20	WG614071
Hexachloro-1,3-butadiene	mg/l	0.0236	0.0221	94.0	71-134	6.67	20	WG614071
Isopropylbenzene	mg/l	0.0259	0.0263	104.	74-126	1.56	20	WG614071
Methyl tert-butyl ether	mg/l	0.0263	0.0241	105.	67-127	8.66	20	WG614071
Methylene Chloride	mg/l	0.0251	0.0249	100.	67-122	0.790	20	WG614071
n-Butylbenzene	mg/l	0.0243	0.0242	97.0	74-130	0.0600	20	WG614071

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October 02, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
n-Propylbenzene	**mg/l**	**0.0250**	**0.0253**	**100.**	**77-125**	**1.31**	**20**	**WG614071**
Naphthalene	mg/l	0.0229	0.0208	92.0	70-134	9.38	20	WG614071
p-Isopropyltoluene	mg/l	0.0253	0.0250	101.	77-132	1.09	20	WG614071
sec-Butylbenzene	**mg/l**	**0.0248**	**0.0250**	**99.0**	**77-130**	**1.11**	**20**	**WG614071**
Styrene	mg/l	0.0252	0.0255	101.	69-145	1.43	20	WG614071
tert-Butylbenzene	mg/l	0.0255	0.0253	102.	76-131	0.770	20	WG614071
Tetrachloroethene	**mg/l**	**0.0247**	**0.0255**	**99.0**	**69-131**	**3.23**	**20**	**WG614071**
Toluene	mg/l	0.0234	0.0233	93.0	75-114	0.140	20	WG614071
trans-1,2-Dichloroethene	mg/l	0.0249	0.0243	100.	63-127	2.54	20	WG614071
trans-1,3-Dichloropropene	**mg/l**	**0.0249**	**0.0238**	**100.**	**69-124**	**4.86**	**20**	**WG614071**
Trichloroethene	mg/l	0.0244	0.0238	98.0	69-131	2.79	20	WG614071
Trichlorofluoromethane	mg/l	0.0264	0.0263	106.	53-161	0.270	20	WG614071
Vinyl chloride	**mg/l**	**0.0237**	**0.0233**	**95.0**	**55-142**	**1.42**	**20**	**WG614071**
Xylenes, Total	mg/l	0.0742	0.0748	99.0	77-123	0.820	20	WG614071
4-Bromofluorobenzene				105.3	82-120			WG614071
Dibromofluoromethane				**109.7**	**82-126**			**WG614071**
Toluene-d8				106.7	92-112			WG614071
TPH (GC/FID) Low Fraction	**mg/kg**	**6.89**	**7.14**	**125.**	**67-135**	**3.55**	**20**	**WG614034**
a,a,a-Trifluorotoluene(FID)				105.2	59-128			WG614034
Benzene	mg/kg	0.0505	0.0435	101.	76-113	14.8	20	WG614034
Ethylbenzene	**mg/kg**	**0.0516**	**0.0523**	**103.**	**78-115**	**1.36**	**20**	**WG614034**
Methyl tert-butyl ether	mg/kg	0.0508	0.0434	102.	37-145	15.6	24	WG614034
Toluene	mg/kg	0.0509	0.0494	102.	76-114	2.84	20	WG614034
Total Xylene	**mg/kg**	**0.164**	**0.164**	**110.**	**81-118**	**0.250**	**20**	**WG614034**
a,a,a-Trifluorotoluene(FID)				98.70	59-128			WG614034
1,1,1,2-Tetrachloroethane	**mg/kg**	**0.0258**	**0.0259**	**103.**	**77-129**	**0.420**	**20**	**WG614031**
1,1,1-Trichloroethane	mg/kg	0.0264	0.0269	105.	70-127	1.94	20	WG614031
1,1,2,2-Tetrachloroethane	mg/kg	0.0271	0.0274	108.	76-133	1.15	20	WG614031
1,1,2-Trichloroethane	**mg/kg**	**0.0260**	**0.0263**	**104.**	**79-123**	**1.19**	**20**	**WG614031**
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0254	0.0249	102.	52-145	2.37	20	WG614031
1,1-Dichloroethane	mg/kg	0.0268	0.0274	107.	74-121	2.23	20	WG614031
1,1-Dichloroethene	**mg/kg**	**0.0261**	**0.0264**	**104.**	**53-135**	**1.06**	**20**	**WG614031**
1,1-Dichloropropene	mg/kg	0.0267	0.0268	107.	67-127	0.160	20	WG614031
1,2,3-Trichlorobenzene	mg/kg	0.0260	0.0257	104.	74-131	0.990	20	WG614031
1,2,3-Trichloropropane	**mg/kg**	**0.0272**	**0.0273**	**109.**	**75-135**	**0.380**	**20**	**WG614031**
1,2,3-Trimethylbenzene	mg/kg	0.0258	0.0254	103.	76-128	1.45	20	WG614031
1,2,4-Trichlorobenzene	mg/kg	0.0254	0.0250	102.	72-130	1.47	20	WG614031
1,2,4-Trimethylbenzene	**mg/kg**	**0.0267**	**0.0263**	**107.**	**75-131**	**1.67**	**20**	**WG614031**
1,2-Dibromo-3-Chloropropane	mg/kg	0.0251	0.0246	100.	55-142	2.29	20	WG614031
1,2-Dibromoethane	mg/kg	0.0271	0.0272	108.	77-126	0.620	20	WG614031
1,2-Dichlorobenzene	**mg/kg**	**0.0266**	**0.0260**	**106.**	**80-123**	**2.53**	**20**	**WG614031**
1,2-Dichloroethane	mg/kg	0.0276	0.0279	110.	70-128	1.15	20	WG614031
1,2-Dichloropropane	mg/kg	0.0264	0.0268	106.	74-125	1.67	20	WG614031
1,3,5-Trimethylbenzene	**mg/kg**	**0.0264**	**0.0259**	**105.**	**77-129**	**1.88**	**20**	**WG614031**
1,3-Dichlorobenzene	mg/kg	0.0273	0.0268	109.	76-128	1.87	20	WG614031
1,3-Dichloropropane	mg/kg	0.0264	0.0265	105.	77-118	0.610	20	WG614031
1,4-Dichlorobenzene	**mg/kg**	**0.0251**	**0.0254**	**100.**	**77-119**	**1.31**	**20**	**WG614031**
2,2-Dichloropropane	mg/kg	0.0255	0.0261	102.	60-132	2.30	20	WG614031
2-Butanone (MEK)	mg/kg	0.107	0.114	86.0	56-146	5.92	20	WG614031
2-Chloroethyl vinyl ether	**mg/kg**	**0.135**	**0.139**	**108.**	**17-179**	**2.99**	**22**	**WG614031**
2-Chlorotoluene	mg/kg	0.0275	0.0269	110.	76-125	2.45	20	WG614031
4-Chlorotoluene	mg/kg	0.0265	0.0260	106.	76-125	2.06	20	WG614031
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**0.130**	**0.140**	**104.**	**55-148**	**7.12**	**20**	**WG614031**
Acetone	mg/kg	0.0972	0.104	78.0	47-155	7.19	22	WG614031
Acrylonitrile	mg/kg	0.134	0.142	107.	50-155	5.71	20	WG614031

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	**mg/kg**	**0.0267**	**0.0272**	**107.**	**72-120**	**1.75**	**20**	**WG614031**
Bromobenzene	mg/kg	0.0261	0.0258	104.	74-122	1.37	20	WG614031
Bromodichloromethane	mg/kg	0.0249	0.0256	99.0	74-128	2.90	20	WG614031
Bromoform	**mg/kg**	**0.0249**	**0.0251**	**100.**	**62-137**	**0.930**	**20**	**WG614031**
Bromomethane	mg/kg	0.0292	0.0308	117.	38-180	5.47	20	WG614031
Carbon tetrachloride	mg/kg	0.0258	0.0260	103.	62-130	0.690	20	WG614031
Chlorobenzene	**mg/kg**	**0.0264**	**0.0260**	**106.**	**77-124**	**1.29**	**20**	**WG614031**
Chlorodibromomethane	mg/kg	0.0253	0.0251	101.	74-128	1.00	20	WG614031
Chloroethane	mg/kg	0.0301	0.0304	120.	46-173	0.880	20	WG614031
Chloroform	**mg/kg**	**0.0261**	**0.0263**	**104.**	**76-122**	**0.480**	**20**	**WG614031**
Chloromethane	mg/kg	0.0253	0.0258	101.	49-143	2.19	20	WG614031
cis-1,2-Dichloroethene	mg/kg	0.0267	0.0275	107.	73-123	2.75	20	WG614031
cis-1,3-Dichloropropene	**mg/kg**	**0.0262**	**0.0269**	**105.**	**73-126**	**2.64**	**20**	**WG614031**
Di-isopropyl ether	mg/kg	0.0265	0.0271	106.	64-131	2.41	20	WG614031
Dibromomethane	mg/kg	0.0257	0.0268	103.	75-127	4.34	20	WG614031
Dichlorodifluoromethane	**mg/kg**	**0.0236**	**0.0250**	**94.0**	**30-177**	**5.86**	**20**	**WG614031**
Ethylbenzene	mg/kg	0.0265	0.0260	106.	76-126	1.87	20	WG614031
Hexachloro-1,3-butadiene	mg/kg	0.0259	0.0252	104.	71-134	2.81	20	WG614031
Isopropylbenzene	**mg/kg**	**0.0257**	**0.0254**	**103.**	**70-128**	**1.00**	**20**	**WG614031**
Methyl tert-butyl ether	mg/kg	0.0268	0.0278	107.	66-127	3.60	20	WG614031
Methylene Chloride	mg/kg	0.0275	0.0286	110.	67-124	4.18	20	WG614031
n-Butylbenzene	**mg/kg**	**0.0256**	**0.0253**	**102.**	**71-133**	**1.11**	**20**	**WG614031**
n-Propylbenzene	mg/kg	0.0267	0.0264	107.	76-126	1.23	20	WG614031
Naphthalene	mg/kg	0.0251	0.0256	100.	68-136	1.88	20	WG614031
p-Isopropyltoluene	**mg/kg**	**0.0268**	**0.0262**	**107.**	**75-134**	**2.55**	**20**	**WG614031**
sec-Butylbenzene	mg/kg	0.0265	0.0261	106.	75-132	1.71	20	WG614031
Styrene	mg/kg	0.0272	0.0270	109.	68-148	0.890	20	WG614031
tert-Butylbenzene	**mg/kg**	**0.0266**	**0.0258**	**106.**	**75-132**	**2.99**	**20**	**WG614031**
Tetrachloroethene	mg/kg	0.0267	0.0266	107.	70-131	0.230	20	WG614031
Toluene	mg/kg	0.0251	0.0256	100.	74-155	2.12	20	WG614031
trans-1,2-Dichloroethene	**mg/kg**	**0.0261**	**0.0268**	**104.**	**63-126**	**2.40**	**20**	**WG614031**
trans-1,3-Dichloropropene	mg/kg	0.0266	0.0278	106.	68-126	4.15	20	WG614031
Trichloroethene	mg/kg	0.0266	0.0273	106.	75-121	2.53	20	WG614031
Trichlorofluoromethane	**mg/kg**	**0.0274**	**0.0288**	**110.**	**48-170**	**4.72**	**20**	**WG614031**
Vinyl chloride	mg/kg	0.0257	0.0266	103.	54-144	3.21	20	WG614031
Xylenes, Total	mg/kg	0.0797	0.0787	106.	76-126	1.17	20	WG614031
4-Bromofluorobenzene				**102.4**	**67-133**			**WG614031**
Dibromofluoromethane				101.6	72-135			WG614031
Toluene-d8				100.9	90-113			WG614031
Benzene	mg/l	0.0427	0.0453	85.0	79-114	5.91	20	WG614251
Ethylbenzene	mg/l	0.0523	0.0557	104.	80-116	6.32	20	WG614251
Methyl **tert-butyl ether**	**mg/l**	**0.0397**	**0.0407**	**79.0**	**64-125**	**2.48**	**20**	**WG614251**
Toluene	mg/l	0.0479	0.0510	96.0	79-112	6.12	20	WG614251
Total Xylene	mg/l	0.155	0.166	104.	84-118	6.48	20	WG614251
a,a,a-Trifluorotoluene(PID)				**102.7**	**55-122**			**WG614251**
TPH (GC/FID) Low Fraction	mg/l	5.03	5.25	91.0	70-124	4.27	20	WG614251
a,a,a-Trifluorotoluene(FID)				95.93	62-128			WG614251
1,1,1,2-Tetrachloroethane	mg/kg	0.0231	0.0223	92.0	77-129	3.70	20	WG614033
1,1,1-Trichloroethane	mg/kg	0.0258	0.0238	103.	70-127	8.24	20	WG614033
1,1,2,2-Tetrachloroethane	**mg/kg**	**0.0221**	**0.0219**	**88.0**	**76-133**	**0.890**	**20**	**WG614033**
1,1,2-Trichloroethane	mg/kg	0.0227	0.0222	91.0	79-123	2.14	20	WG614033
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0239	0.0213	96.0	52-145	11.5	20	WG614033
1,1-Dichloroethane	**mg/kg**	**0.0224**	**0.0217**	**90.0**	**74-121**	**3.22**	**20**	**WG614033**
1,1-Dichloroethene	mg/kg	0.0217	0.0199	87.0	53-135	8.55	20	WG614033
1,1-Dichloropropene	mg/kg	0.0247	0.0212	99.0	67-127	15.0	20	WG614033

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Quality Assurance Report
Level II

L596744

October 02, 2012

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2,3-Trichlorobenzene	mg/kg	0.0209	0.0209	84.0	74-131	0.110	20	WG614033
1,2,3-Trichloropropane	mg/kg	0.0248	0.0240	99.0	75-135	3.53	20	WG614033
1,2,3-Trimethylbenzene	mg/kg	0.0227	0.0217	91.0	76-128	4.44	20	WG614033
1,2,4-Trichlorobenzene	mg/kg	0.0232	0.0217	93.0	72-130	6.80	20	WG614033
1,2,4-Trimethylbenzene	mg/kg	0.0232	0.0216	93.0	75-131	7.15	20	WG614033
1,2-Dibromo-3-Chloropropane	mg/kg	0.0250	0.0241	100.	55-142	3.87	20	WG614033
1,2-Dibromoethane	mg/kg	0.0235	0.0229	94.0	77-126	2.64	20	WG614033
1,2-Dichlorobenzene	mg/kg	0.0235	0.0228	94.0	80-123	2.88	20	WG614033
1,2-Dichloroethane	mg/kg	0.0259	0.0260	104.	70-128	0.330	20	WG614033
1,2-Dichloropropane	mg/kg	0.0218	0.0215	87.0	74-125	1.60	20	WG614033
1,3,5-Trimethylbenzene	mg/kg	0.0238	0.0222	95.0	77-129	6.93	20	WG614033
1,3-Dichlorobenzene	mg/kg	0.0236	0.0218	94.0	76-128	7.87	20	WG614033
1,3-Dichloropropane	mg/kg	0.0230	0.0219	92.0	77-118	4.91	20	WG614033
1,4-Dichlorobenzene	mg/kg	0.0229	0.0225	92.0	77-119	1.84	20	WG614033
2,2-Dichloropropane	mg/kg	0.0242	0.0213	97.0	60-132	12.6	20	WG614033
2-Butanone (MEK)	mg/kg	0.151	0.149	121.	56-146	1.45	20	WG614033
2-Chloroethyl vinyl ether	mg/kg	0.0978	0.118	78.0	17-179	18.7	22	WG614033
2-Chlorotoluene	mg/kg	0.0238	0.0219	95.0	76-125	8.28	20	WG614033
4-Chlorotoluene	mg/kg	0.0237	0.0221	95.0	76-125	6.78	20	WG614033
4-Methyl-2-pentanone (MIBK)	mg/kg	0.132	0.131	106.	55-148	0.780	20	WG614033
Acetone	mg/kg	0.166	0.173	133.	47-155	4.03	22	WG614033
Acrylonitrile	mg/kg	0.110	0.113	88.0	50-155	2.95	20	WG614033
Benzene	mg/kg	0.0220	0.0208	88.0	72-120	5.69	20	WG614033
Bromobenzene	mg/kg	0.0237	0.0223	95.0	74-122	6.03	20	WG614033
Bromodichloromethane	mg/kg	0.0252	0.0249	101.	74-128	1.26	20	WG614033
Bromoform	mg/kg	0.0257	0.0242	103.	62-137	6.20	20	WG614033
Bromomethane	mg/kg	0.0215	0.0202	86.0	38-180	6.45	20	WG614033
Carbon tetrachloride	mg/kg	0.0248	0.0230	99.0	62-130	7.74	20	WG614033
Chlorobenzene	mg/kg	0.0228	0.0215	91.0	77-124	6.26	20	WG614033
Chlorodibromomethane	mg/kg	0.0252	0.0240	101.	74-128	4.85	20	WG614033
Chloroethane	mg/kg	0.0211	0.0204	84.0	46-173	3.26	20	WG614033
Chloroform	mg/kg	0.0233	0.0235	93.0	76-122	1.02	20	WG614033
Chloromethane	mg/kg	0.0214	0.0207	86.0	49-143	3.52	20	WG614033
cis-1,2-Dichloroethene	mg/kg	0.0219	0.0212	88.0	73-123	3.14	20	WG614033
cis-1,3-Dichloropropene	mg/kg	0.0247	0.0230	99.0	73-126	6.97	20	WG614033
Di-isopropyl ether	mg/kg	0.0213	0.0209	85.0	64-131	2.07	20	WG614033
Dibromomethane	mg/kg	0.0247	0.0244	99.0	75-127	1.55	20	WG614033
Dichlorodifluoromethane	mg/kg	0.0264	0.0232	106.	30-177	12.9	20	WG614033
Ethylbenzene	mg/kg	0.0231	0.0213	92.0	76-126	8.25	20	WG614033
Hexachloro-1,3-butadiene	mg/kg	0.0247	0.0211	99.0	71-134	15.7	20	WG614033
Isopropylbenzene	mg/kg	0.0253	0.0223	101.	70-128	12.3	20	WG614033
Methyl tert-butyl ether	mg/kg	0.0201	0.0216	80.0	66-127	7.52	20	WG614033
Methylene Chloride	mg/kg	0.0180	0.0179	72.0	67-124	0.320	20	WG614033
n-Butylbenzene	mg/kg	0.0250	0.0221	100.	71-133	12.2	20	WG614033
n-Propylbenzene	mg/kg	0.0246	0.0215	98.0	76-126	13.4	20	WG614033
Naphthalene	mg/kg	0.0214	0.0219	86.0	68-136	2.50	20	WG614033
p-Isopropyltoluene	mg/kg	0.0251	0.0220	100.	75-134	13.3	20	WG614033
sec-Butylbenzene	mg/kg	0.0240	0.0211	96.0	75-132	13.1	20	WG614033
Styrene	mg/kg	0.0229	0.0211	92.0	68-148	8.31	20	WG614033
tert-Butylbenzene	mg/kg	0.0245	0.0222	98.0	75-132	9.57	20	WG614033
Tetrachloroethene	mg/kg	0.0241	0.0207	96.0	70-131	15.3	20	WG614033
Toluene	mg/kg	0.0239	0.0216	96.0	74-155	10.1	20	WG614033
trans-1,2-Dichloroethene	mg/kg	0.0209	0.0192	84.0	63-126	8.32	20	WG614033
trans-1,3-Dichloropropene	mg/kg	0.0257	0.0245	103.	68-126	4.71	20	WG614033
Trichloroethene	mg/kg	0.0238	0.0208	95.0	75-121	13.7	20	WG614033
Trichlorofluoromethane	mg/kg	0.0275	0.0240	110.	48-170	13.4	20	WG614033
Vinyl chloride	mg/kg	0.0216	0.0195	86.0	54-144	10.3	20	WG614033
Xylenes, Total	mg/kg	0.0698	0.0641	93.0	76-126	8.62	20	WG614033
4-Bromofluorobenzene				105.8	67-133			WG614033

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Dibromofluoromethane				**106.2**	**72-135**			
Toluene-d8				109.2	90-113			
1,1,1,2-Tetrachloroethane	mg/kg	0.0221	0.0222	88.0	77-129	0.370	20	WG614030
1,1,1-Trichloroethane	**mg/kg**	**0.0200**	**0.0199**	**80.0**	**70-127**	**0.590**	**20**	**WG614030**
1,1,2,2-Tetrachloroethane	mg/kg	0.0224	0.0215	90.0	76-133	4.49	20	WG614030
1,1,2-Trichloroethane	mg/kg	0.0220	0.0216	88.0	79-123	2.10	20	WG614030
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**0.0197**	**0.0198**	**79.0**	**52-145**	**0.910**	**20**	**WG614030**
1,1-Dichloroethane	mg/kg	0.0201	0.0202	80.0	74-121	0.410	20	WG614030
1,1-Dichloroethene	mg/kg	0.0195	0.0193	78.0	53-135	0.760	20	WG614030
1,1-Dichloropropene	**mg/kg**	**0.0197**	**0.0195**	**79.0**	**67-127**	**0.760**	**20**	**WG614030**
1,2,3-Trichlorobenzene	mg/kg	0.0269	0.0256	108.	74-131	5.21	20	WG614030
1,2,3-Trichloropropane	mg/kg	0.0223	0.0217	89.0	75-135	2.78	20	WG614030
1,2,3-Trimethylbenzene	**mg/kg**	**0.0241**	**0.0235**	**96.0**	**76-128**	**2.64**	**20**	**WG614030**
1,2,4-Trichlorobenzene	mg/kg	0.0254	0.0245	102.	72-130	3.87	20	WG614030
1,2,4-Trimethylbenzene	mg/kg	0.0216	0.0213	86.0	75-131	1.49	20	WG614030
1,2-Dibromo-3-Chloropropane	**mg/kg**	**0.0241**	**0.0237**	**96.0**	**55-142**	**1.56**	**20**	**WG614030**
1,2-Dibromoethane	mg/kg	0.0221	0.0216	88.0	77-126	2.10	20	WG614030
1,2-Dichlorobenzene	mg/kg	0.0245	0.0237	98.0	80-123	3.05	20	WG614030
1,2-Dichloroethane	**mg/kg**	**0.0198**	**0.0194**	**79.0**	**70-128**	**2.21**	**20**	**WG614030**
1,2-Dichloropropane	mg/kg	0.0209	0.0210	84.0	74-125	0.230	20	WG614030
1,3,5-Trimethylbenzene	mg/kg	0.0214	0.0213	86.0	77-129	0.590	20	WG614030
1,3-Dichlorobenzene	**mg/kg**	**0.0217**	**0.0213**	**87.0**	**76-128**	**1.63**	**20**	**WG614030**
1,3-Dichloropropane	mg/kg	0.0220	0.0216	88.0	77-118	1.67	20	WG614030
1,4-Dichlorobenzene	mg/kg	0.0238	0.0234	95.0	77-119	2.04	20	WG614030
2,2-Dichloropropane	**mg/kg**	**0.0200**	**0.0198**	**80.0**	**60-132**	**1.20**	**20**	**WG614030**
2-Butanone (MEK)	mg/kg	0.109	0.106	87.0	56-146	2.59	20	WG614030
2-Chloroethyl vinyl ether	mg/kg	0.108	0.107	86.0	17-179	0.330	22	WG614030
2-Chlorotoluene	**mg/kg**	**0.0215**	**0.0212**	**86.0**	**76-125**	**1.07**	**20**	**WG614030**
4-Chlorotoluene	mg/kg	0.0215	0.0213	86.0	76-125	1.18	20	WG614030
4-Methyl-2-pentanone (MIBK)	mg/kg	0.109	0.105	87.0	55-148	3.71	20	WG614030
Acetone	**mg/kg**	**0.111**	**0.107**	**89.0**	**47-155**	**4.02**	**22**	**WG614030**
Acrylonitrile	mg/kg	0.106	0.103	85.0	50-155	2.66	20	WG614030
Benzene	mg/kg	0.0197	0.0197	79.0	72-120	0.0700	20	WG614030
Bromobenzene	**mg/kg**	**0.0212**	**0.0210**	**85.0**	**74-122**	**0.680**	**20**	**WG614030**
Bromodichloromethane	mg/kg	0.0205	0.0206	82.0	74-128	0.220	20	WG614030
Bromoform	mg/kg	0.0226	0.0224	90.0	62-137	0.900	20	WG614030
Bromomethane	**mg/kg**	**0.0216**	**0.0215**	**86.0**	**38-180**	**0.150**	**20**	**WG614030**
Carbon tetrachloride	mg/kg	0.0194	0.0194	78.0	62-130	0.0100	20	WG614030
Chlorobenzene	mg/kg	0.0216	0.0213	86.0	77-124	1.41	20	WG614030
Chlorodibromomethane	**mg/kg**	**0.0224**	**0.0223**	**90.0**	**74-128**	**0.410**	**20**	**WG614030**
Chloroethane	mg/kg	0.0195	0.0196	78.0	46-173	0.310	20	WG614030
Chloroform	mg/kg	0.0199	0.0200	80.0	76-122	0.380	20	WG614030
Chloromethane	**mg/kg**	**0.0140**	**0.0141**	**56.0**	**49-143**	**0.680**	**20**	**WG614030**
cis-1,2-Dichloroethene	mg/kg	0.0203	0.0199	81.0	73-123	1.95	20	WG614030
cis-1,3-Dichloropropene	mg/kg	0.0208	0.0211	83.0	73-126	1.41	20	WG614030
Di-isopropyl ether	**mg/kg**	**0.0201**	**0.0203**	**80.0**	**64-131**	**0.750**	**20**	**WG614030**
Dibromomethane	mg/kg	0.0211	0.0205	84.0	75-127	2.85	20	WG614030
Dichlorodifluoromethane	mg/kg	0.0171	0.0175	68.0	30-177	2.49	20	WG614030
Ethylbenzene	**mg/kg**	**0.0217**	**0.0218**	**87.0**	**76-126**	**0.260**	**20**	**WG614030**
Hexachloro-1,3-butadiene	mg/kg	0.0258	0.0248	103.	71-134	4.06	20	WG614030
Isopropylbenzene	mg/kg	0.0218	0.0218	87.0	70-128	0.160	20	WG614030
Methyl tert-butyl ether	**mg/kg**	**0.0198**	**0.0197**	**79.0**	**66-127**	**0.830**	**20**	**WG614030**
Methylene Chloride	mg/kg	0.0186	0.0187	74.0	67-124	0.200	20	WG614030
n-Butylbenzene	mg/kg	0.0249	0.0242	99.0	71-133	2.82	20	WG614030
n-Propylbenzene	**mg/kg**	**0.0215**	**0.0216**	**86.0**	**76-126**	**0.100**	**20**	**WG614030**
Naphthalene	mg/kg	0.0260	0.0246	104.	68-136	5.85	20	WG614030
p-Isopropyltoluene	mg/kg	0.0215	0.0217	86.0	75-134	0.890	20	WG614030
sec-Butylbenzene	**mg/kg**	**0.0217**	**0.0214**	**87.0**	**75-132**	**1.50**	**20**	**WG614030**
Styrene	mg/kg	0.0220	0.0220	88.0	68-148	0.0900	20	WG614030

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
tert-Butylbenzene	mg/kg	0.0218	0.0216	87.0	75-132	0.930	20	WG614030
Tetrachloroethene	mg/kg	0.0220	0.0216	88.0	70-131	1.54	20	WG614030
Toluene	mg/kg	0.0197	0.0198	79.0	74-155	0.740	20	WG614030
trans-1,2-Dichloroethene	mg/kg	0.0197	0.0199	79.0	63-126	1.12	20	WG614030
trans-1,3-Dichloropropene	mg/kg	0.0211	0.0210	84.0	68-126	0.490	20	WG614030
Trichloroethene	mg/kg	0.0206	0.0204	82.0	75-121	0.870	20	WG614030
Trichlorofluoromethane	mg/kg	0.0197	0.0197	79.0	48-170	0.160	20	WG614030
Vinyl chloride	mg/kg	0.0191	0.0192	76.0	54-144	0.260	20	WG614030
Xylenes, Total	mg/kg	0.0645	0.0638	86.0	76-126	1.06	20	WG614030
4-Bromofluorobenzene				88.45	67-133			WG614030
Dibromofluoromethane				92.21	72-135			WG614030
Toluene-d8				93.51	90-113			WG614030
Benzene	mg/kg	0.0487	0.0489	97.0	76-113	0.390	20	WG614452
Ethylbenzene	mg/kg	0.0550	0.0540	110.	78-115	1.74	20	WG614452
Methyl tert-butyl ether	mg/kg	0.0489	0.0474	98.0	37-145	3.25	24	WG614452
Toluene	mg/kg	0.0519	0.0518	104.	76-114	0.120	20	WG614452
Total Xylene	mg/kg	0.159	0.157	106.	81-118	1.34	20	WG614452
a,a,a-Trifluorotoluene(PID)				106.7	54-144			WG614452
TPH (GC/FID) Low Fraction	mg/kg	6.12	6.12	111.	67-135	0.0800	20	WG614452
a,a,a-Trifluorotoluene(FID)				105.4	59-128			WG614452
1,1,1,2-Tetrachloroethane	mg/kg	0.0262	0.0262	105.	77-129	0.0200	20	WG614631
1,1,1-Trichloroethane	mg/kg	0.0257	0.0258	103.	70-127	0.280	20	WG614631
1,1,2,2-Tetrachloroethane	mg/kg	0.0261	0.0257	104.	76-133	1.64	20	WG614631
1,1,2-Trichloroethane	mg/kg	0.0259	0.0266	104.	79-123	2.80	20	WG614631
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0231	0.0244	92.0	52-145	5.56	20	WG614631
1,1-Dichloroethane	mg/kg	0.0262	0.0273	105.	74-121	4.14	20	WG614631
1,1-Dichloroethene	mg/kg	0.0252	0.0267	101.	53-135	5.73	20	WG614631
1,1-Dichloropropene	mg/kg	0.0259	0.0269	104.	67-127	3.86	20	WG614631
1,2,3-Trichlorobenzene	mg/kg	0.0257	0.0249	103.	74-131	3.08	20	WG614631
1,2,3-Trichloropropane	mg/kg	0.0255	0.0253	102.	75-135	0.850	20	WG614631
1,2,3-Trimethylbenzene	mg/kg	0.0257	0.0252	103.	76-128	1.84	20	WG614631
1,2,4-Trichlorobenzene	mg/kg	0.0248	0.0243	99.0	72-130	2.11	20	WG614631
1,2,4-Trimethylbenzene	mg/kg	0.0268	0.0265	107.	75-131	1.13	20	WG614631
1,2-Dibromo-3-Chloropropane	mg/kg	0.0235	0.0239	94.0	55-142	1.95	20	WG614631
1,2-Dibromoethane	mg/kg	0.0271	0.0274	108.	77-126	1.32	20	WG614631
1,2-Dichlorobenzene	mg/kg	0.0269	0.0257	108.	80-123	4.61	20	WG614631
1,2-Dichloroethane	mg/kg	0.0268	0.0282	107.	70-128	4.91	20	WG614631
1,2-Dichloropropane	mg/kg	0.0263	0.0272	105.	74-125	3.43	20	WG614631
1,3,5-Trimethylbenzene	mg/kg	0.0262	0.0260	105.	77-129	0.770	20	WG614631
1,3-Dichlorobenzene	mg/kg	0.0274	0.0274	110.	76-128	0.120	20	WG614631
1,3-Dichloropropane	mg/kg	0.0263	0.0268	105.	77-118	2.13	20	WG614631
1,4-Dichlorobenzene	mg/kg	0.0254	0.0245	102.	77-119	3.82	20	WG614631
2,2-Dichloropropane	mg/kg	0.0256	0.0251	102.	60-132	1.97	20	WG614631
2-Butanone (MEK)	mg/kg	0.0934	0.0977	75.0	56-146	4.45	20	WG614631
2-Chloroethyl vinyl ether	mg/kg	0.129	0.135	103.	17-179	4.37	22	WG614631
2-Chlorotoluene	mg/kg	0.0274	0.0271	110.	76-125	1.24	20	WG614631
4-Chlorotoluene	mg/kg	0.0266	0.0261	106.	76-125	1.72	20	WG614631
4-Methyl-2-pentanone (MIBK)	mg/kg	0.120	0.124	96.0	55-148	3.03	20	WG614631
Acetone	mg/kg	0.0856	0.0909	68.0	47-155	6.04	22	WG614631
Acrylonitrile	mg/kg	0.122	0.128	97.0	50-155	4.96	20	WG614631
Benzene	mg/kg	0.0269	0.0278	107.	72-120	3.29	20	WG614631
Bromobenzene	mg/kg	0.0259	0.0258	104.	74-122	0.560	20	WG614631
Bromodichloromethane	mg/kg	0.0250	0.0257	100.	74-128	2.59	20	WG614631
Bromoform	mg/kg	0.0241	0.0245	96.0	62-137	1.58	20	WG614631
Bromomethane	mg/kg	0.0322	0.0326	129.	38-180	1.25	20	WG614631

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Carbon tetrachloride	**mg/kg**	**0.0247**	**0.0258**	**99.0**	**62-130**	**4.67**	**20**	**WG614631**
Chlorobenzene	mg/kg	0.0268	0.0275	107.	77-124	2.29	20	WG614631
Chlorodibromomethane	mg/kg	0.0251	0.0261	100.	74-128	3.96	20	WG614631
Chloroethane	**mg/kg**	**0.0309**	**0.0323**	**124.**	**46-173**	**4.33**	**20**	**WG614631**
Chloroform	mg/kg	0.0260	0.0270	104.	76-122	3.79	20	WG614631
Chloromethane	mg/kg	0.0270	0.0284	108.	49-143	5.26	20	WG614631
cis-1,2-Dichloroethene	**mg/kg**	**0.0268**	**0.0278**	**107.**	**73-123**	**3.57**	**20**	**WG614631**
cis-1,3-Dichloropropene	mg/kg	0.0259	0.0271	104.	73-126	4.69	20	WG614631
Di-isopropyl ether	mg/kg	0.0257	0.0268	103.	64-131	4.18	20	WG614631
Dibromomethane	**mg/kg**	**0.0260**	**0.0263**	**104.**	**75-127**	**1.13**	**20**	**WG614631**
Dichlorodifluoromethane	mg/kg	0.0255	0.0267	102.	30-177	4.63	20	WG614631
Ethylbenzene	mg/kg	0.0268	0.0267	107.	76-126	0.250	20	WG614631
Hexachloro-1,3-butadiene	**mg/kg**	**0.0243**	**0.0238**	**97.0**	**71-134**	**1.98**	**20**	**WG614631**
Isopropylbenzene	mg/kg	0.0251	0.0252	100.	70-128	0.380	20	WG614631
Methyl tert-butyl ether	mg/kg	0.0256	0.0267	102.	66-127	4.37	20	WG614631
Methylene Chloride	**mg/kg**	**0.0265**	**0.0273**	**106.**	**67-124**	**3.00**	**20**	**WG614631**
n-Butylbenzene	mg/kg	0.0248	0.0239	99.0	71-133	3.85	20	WG614631
n-Propylbenzene	mg/kg	0.0263	0.0260	105.	76-126	1.21	20	WG614631
Naphthalene	**mg/kg**	**0.0244**	**0.0241**	**98.0**	**68-136**	**1.36**	**20**	**WG614631**
p-Isopropyltoluene	mg/kg	0.0260	0.0258	104.	75-134	0.670	20	WG614631
sec-Butylbenzene	mg/kg	0.0255	0.0254	102.	75-132	0.240	20	WG614631
Styrene	**mg/kg**	**0.0274**	**0.0270**	**110.**	**68-148**	**1.56**	**20**	**WG614631**
tert-Butylbenzene	mg/kg	0.0261	0.0266	104.	75-132	1.82	20	WG614631
Tetrachloroethene	mg/kg	0.0266	0.0276	106.	70-131	4.05	20	WG614631
Toluene	**mg/kg**	**0.0256**	**0.0263**	**102.**	**74-155**	**2.80**	**20**	**WG614631**
trans-1,2-Dichloroethene	mg/kg	0.0258	0.0269	103.	63-126	4.12	20	WG614631
trans-1,3-Dichloropropene	mg/kg	0.0260	0.0275	104.	68-126	5.90	20	WG614631
Trichloroethene	**mg/kg**	**0.0267**	**0.0272**	**107.**	**75-121**	**1.71**	**20**	**WG614631**
Trichlorofluoromethane	mg/kg	0.0284	0.0296	113.	48-170	4.33	20	WG614631
Vinyl chloride	mg/kg	0.0268	0.0278	107.	54-144	3.95	20	WG614631
Xylenes, Total	**mg/kg**	**0.0801**	**0.0807**	**107.**	**76-126**	**0.740**	**20**	**WG614631**
4-Bromofluorobenzene				102.9	67-133			WG614631
Dibromofluoromethane				100.1	72-135			WG614631
Toluene-d8				**101.5**	**90-113**			**WG614631**
Diesel	mg/l	0.633	0.619	84.0	50-150	2.16	20	WG613784
Motor Oil	**mg/l**	**0.725**	**0.715**	**97.0**	**50-150**	**1.26**	**25**	**WG613784**
o-Terphenyl				88.77	50-150			WG613784
Diesel	**mg/l**	**0.637**	**0.613**	**85.0**	**50-150**	**3.79**	**20**	**WG614470**
Motor Oil	mg/l	0.715	0.737	95.0	50-150	3.01	25	WG614470
o-Terphenyl				85.28	50-150			WG614470
Diesel	mg/kg	22.4	23.9	74.0	50-150	6.68	20	WG614225
Motor Oil	mg/kg	22.2	23.5	74.0	50-150	5.76	25	WG614225
o-Terphenyl				**68.70**	**50-150**			**WG614225**
Diesel	mg/kg	20.1	18.1	67.0	50-150	10.3	20	WG615640
Motor Oil	**mg/kg**	**20.0**	**19.4**	**67.0**	**50-150**	**3.03**	**25**	**WG615640**
o-Terphenyl				59.61	50-150			WG615640

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	**mg/l**	**0.0236**	**0**	**.025**	**94.3**	**71-130**	**L596744-05**	**WG614071**

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	**mg/l**	**0.0242**	**0**	**.025**	**96.6**	**58-137**	**L596744-05**	**WG614071**
1,1,2,2-Tetrachloroethane	mg/l	0.0232	0	.025	92.7	64-149	L596744-05	WG614071
1,1,2-Trichloroethane	mg/l	0.0235	0	.025	94.1	73-128	L596744-05	WG614071
1,1,2-Trichlorotrifluoroethane	**mg/l**	**0.0252**	**0**	**.025**	**101.**	**36-159**	**L596744-05**	**WG614071**
1,1-Dichloroethane	mg/l	0.0238	0	.025	95.0	58-133	L596744-05	WG614071
1,1-Dichloroethene	mg/l	0.0249	0	.025	99.8	32-152	L596744-05	WG614071
1,1-Dichloropropene	**mg/l**	**0.0240**	**0**	**.025**	**96.0**	**50-140**	**L596744-05**	**WG614071**
1,2,3-Trichlorobenzene	mg/l	0.0218	0	.025	87.2	68-135	L596744-05	WG614071
1,2,3-Trichloropropane	mg/l	0.0245	0	.025	98.0	74-137	L596744-05	WG614071
1,2,3-Trimethylbenzene	**mg/l**	**0.0217**	**0**	**.025**	**86.8**	**67-133**	**L596744-05**	**WG614071**
1,2,4-Trichlorobenzene	mg/l	0.0233	0	.025	93.3	67-133	L596744-05	WG614071
1,2,4-Trimethylbenzene	mg/l	0.0220	0	.025	87.9	62-141	L596744-05	WG614071
1,2-Dibromo-3-Chloropropane	**mg/l**	**0.0244**	**0**	**.025**	**97.4**	**55-148**	**L596744-05**	**WG614071**
1,2-Dibromoethane	mg/l	0.0238	0	.025	95.3	71-129	L596744-05	WG614071
1,2-Dichlorobenzene	mg/l	0.0228	0	.025	91.1	75-125	L596744-05	WG614071
1,2-Dichloroethane	**mg/l**	**0.0309**	**0.00750**	**.025**	**93.6**	**59-135**	**L596744-05**	**WG614071**
1,2-Dichloropropane	mg/l	0.0220	0	.025	88.2	68-126	L596744-05	WG614071
1,3,5-Trimethylbenzene	mg/l	0.0226	0	.025	90.6	67-136	L596744-05	WG614071
1,3-Dichlorobenzene	**mg/l**	**0.0234**	**0**	**.025**	**93.5**	**69-131**	**L596744-05**	**WG614071**
1,3-Dichloropropane	mg/l	0.0231	0	.025	92.3	70-122	L596744-05	WG614071
1,4-Dichlorobenzene	mg/l	0.0225	0	.025	90.2	70-123	L596744-05	WG614071
2,2-Dichloropropane	**mg/l**	**0.0228**	**0**	**.025**	**91.2**	**51-141**	**L596744-05**	**WG614071**
2-Butanone (MEK)	mg/l	0.109	0	.125	86.9	51-149	L596744-05	WG614071
2-Chloroethyl vinyl ether	mg/l	0.000852	0	.125	0.681*	10-161	L596744-05	WG614071
2-Chlorotoluene	**mg/l**	**0.0229**	**0**	**.025**	**91.7**	**65-133**	**L596744-05**	**WG614071**
4-Chlorotoluene	mg/l	0.0227	0	.025	90.8	67-129	L596744-05	WG614071
4-Methyl-2-pentanone (MIBK)	mg/l	0.126	0	.125	100.	53-154	L596744-05	WG614071
Acetone	**mg/l**	**0.130**	**0**	**.125**	**104.**	**34-146**	**L596744-05**	**WG614071**
Acrolein	mg/l	0.121	0	.125	96.6	10-189	L596744-05	WG614071
Acrylonitrile	mg/l	0.135	0	.125	108.	49-162	L596744-05	WG614071
Benzene	**mg/l**	**0.0233**	**0**	**.025**	**93.0**	**51-134**	**L596744-05**	**WG614071**
Bromobenzene	mg/l	0.0222	0	.025	88.6	64-130	L596744-05	WG614071
Bromodichloromethane	mg/l	0.0221	0	.025	88.6	67-132	L596744-05	WG614071
Bromoform	**mg/l**	**0.0244**	**0**	**.025**	**97.6**	**59-137**	**L596744-05**	**WG614071**
Bromomethane	mg/l	0.0209	0	.025	83.7	23-177	L596744-05	WG614071
Carbon tetrachloride	mg/l	0.0234	0	.025	93.5	49-140	L596744-05	WG614071
Chlorobenzene	**mg/l**	**0.0225**	**0**	**.025**	**90.2**	**69-126**	**L596744-05**	**WG614071**
Chlorodibromomethane	mg/l	0.0234	0	.025	93.5	68-130	L596744-05	WG614071
Chloroethane	mg/l	0.0230	0	.025	92.1	32-177	L596744-05	WG614071
Chloroform	**mg/l**	**0.0236**	**0**	**.025**	**94.5**	**64-130**	**L596744-05**	**WG614071**
Chloromethane	mg/l	0.0214	0	.025	85.6	27-155	L596744-05	WG614071
cis-1,2-Dichloroethene	mg/l	0.0235	0	.025	94.1	54-137	L596744-05	WG614071
cis-1,3-Dichloropropene	**mg/l**	**0.0226**	**0**	**.025**	**90.4**	**63-127**	**L596744-05**	**WG614071**
Di-isopropyl ether	mg/l	0.0239	0	.025	95.5	58-133	L596744-05	WG614071
Dibromomethane	mg/l	0.0234	0	.025	93.8	68-131	L596744-05	WG614071
Dichlorodifluoromethane	**mg/l**	**0.0219**	**0**	**.025**	**87.7**	**16-188**	**L596744-05**	**WG614071**
Ethylbenzene	mg/l	0.0233	0	.025	93.0	64-135	L596744-05	WG614071
Hexachloro-1,3-butadiene	mg/l	0.0220	0	.025	88.0	64-140	L596744-05	WG614071
Isopropylbenzene	**mg/l**	**0.0243**	**0**	**.025**	**97.1**	**62-134**	**L596744-05**	**WG614071**
Methyl tert-butyl ether	mg/l	0.0260	0	.025	104.	55-136	L596744-05	WG614071
Methylene Chloride	mg/l	0.0238	0	.025	95.1	52-130	L596744-05	WG614071
n-Butylbenzene	**mg/l**	**0.0226**	**0**	**.025**	**90.3**	**62-142**	**L596744-05**	**WG614071**
n-Propylbenzene	mg/l	0.0232	0	.025	92.9	62-137	L596744-05	WG614071
Naphthalene	mg/l	0.0230	0	.025	91.9	65-140	L596744-05	WG614071
p-Isopropyltoluene	**mg/l**	**0.0235**	**0**	**.025**	**94.1**	**64-142**	**L596744-05**	**WG614071**
sec-Butylbenzene	mg/l	0.0230	0	.025	91.8	67-139	L596744-05	WG614071
Styrene	mg/l	0.0229	0	.025	91.5	58-152	L596744-05	WG614071
tert-Butylbenzene	**mg/l**	**0.0238**	**0**	**.025**	**95.1**	**66-139**	**L596744-05**	**WG614071**
Tetrachloroethene	mg/l	0.0235	0	.025	94.0	56-139	L596744-05	WG614071

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Toluene	**mg/l**	**0.0222**	**0**	**.025**	**88.9**	**61-126**	**L596744-05**	**WG614071**
trans-1,2-Dichloroethene	mg/l	0.0234	0	.025	93.6	45-137	L596744-05	WG614071
trans-1,3-Dichloropropene	mg/l	0.0225	0	.025	89.9	59-130	L596744-05	WG614071
Trichloroethene	**mg/l**	**0.0230**	**0**	**.025**	**91.9**	**40-155**	**L596744-05**	**WG614071**
Trichlorofluoromethane	mg/l	0.0259	0	.025	103.	35-177	L596744-05	WG614071
Vinyl chloride	mg/l	0.0219	0	.025	87.5	32-159	L596744-05	WG614071
Xylenes, Total	**mg/l**	**0.0693**	**0**	**.075**	**92.4**	**64-133**	**L596744-05**	**WG614071**
4-Bromofluorobenzene					103.2	82-120		WG614071
Dibromofluoromethane					110.4	82-126		WG614071
Toluene-d8					**106.2**	**92-112**		**WG614071**
Benzene	mg/kg	0.201	0	.05	80.5	32-137	L596744-06	WG614034
Ethylbenzene	**mg/kg**	**0.237**	**0**	**.05**	**95.0**	**10-150**	**L596744-06**	**WG614034**
Methyl tert-butyl ether	mg/kg	0.195	0	.05	77.8	24-151	L596744-06	WG614034
Toluene	mg/kg	0.225	0	.05	90.1	20-142	L596744-06	WG614034
Total Xylene	**mg/kg**	**0.737**	**0**	**.15**	**98.2**	**16-141**	**L596744-06**	**WG614034**
a,a,a-Trifluorotoluene(PID)					100.7	54-144		WG614034
TPH (GC/FID) Low Fraction	mg/kg	29.2	0	5.5	106.	55-109	L596744-06	WG614034
a,a,a-Trifluorotoluene(FID)					**102.6**	**59-128**		**WG614034**
1,1,1,2-Tetrachloroethane	mg/kg	0.118	0	.025	94.1	49-135	L596744-08	WG614031
1,1,1-Trichloroethane	**mg/kg**	**0.131**	**0**	**.025**	**104.**	**43-142**	**L596744-08**	**WG614031**
1,1,2,2-Tetrachloroethane	mg/kg	0.118	0	.025	94.6	42-147	L596744-08	WG614031
1,1,2-Trichloroethane	mg/kg	0.116	0	.025	92.4	51-134	L596744-08	WG614031
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**0.129**	**0**	**.025**	**103.**	**25-156**	**L596744-08**	**WG614031**
1,1-Dichloroethane	mg/kg	0.124	0	.025	99.2	50-131	L596744-08	WG614031
1,1-Dichloroethene	mg/kg	0.124	0	.025	99.4	29-145	L596744-08	WG614031
1,1-Dichloropropene	**mg/kg**	**0.123**	**0**	**.025**	**98.1**	**40-136**	**L596744-08**	**WG614031**
1,2,3-Trichlorobenzene	mg/kg	0.104	0	.025	83.1	13-142	L596744-08	WG614031
1,2,3-Trichloropropane	mg/kg	0.117	0	.025	93.3	41-149	L596744-08	WG614031
1,2,3-Trimethylbenzene	**mg/kg**	**0.113**	**0**	**.025**	**90.5**	**33-146**	**L596744-08**	**WG614031**
1,2,4-Trichlorobenzene	mg/kg	0.104	0	.025	83.3	12-140	L596744-08	WG614031
1,2,4-Trimethylbenzene	mg/kg	0.121	0	.025	96.9	29-143	L596744-08	WG614031
1,2-Dibromo-3-Chloropropane	**mg/kg**	**0.109**	**0**	**.025**	**87.2**	**29-151**	**L596744-08**	**WG614031**
1,2-Dibromoethane	mg/kg	0.113	0	.025	90.6	48-133	L596744-08	WG614031
1,2-Dichlorobenzene	mg/kg	0.113	0	.025	90.5	37-136	L596744-08	WG614031
1,2-Dichloroethane	**mg/kg**	**0.118**	**0**	**.025**	**94.2**	**49-131**	**L596744-08**	**WG614031**
1,2-Dichloropropane	mg/kg	0.119	0	.025	95.1	50-132	L596744-08	WG614031
1,3,5-Trimethylbenzene	mg/kg	0.121	0	.025	97.1	29-144	L596744-08	WG614031
1,3-Dichlorobenzene	**mg/kg**	**0.117**	**0**	**.025**	**93.9**	**26-140**	**L596744-08**	**WG614031**
1,3-Dichloropropane	mg/kg	0.114	0	.025	90.9	50-126	L596744-08	WG614031
1,4-Dichlorobenzene	mg/kg	0.108	0	.025	86.7	34-132	L596744-08	WG614031
2,2-Dichloropropane	**mg/kg**	**0.129**	**0**	**.025**	**103.**	**35-148**	**L596744-08**	**WG614031**
2-Butanone (MEK)	mg/kg	0.536	0	.125	85.8	40-149	L596744-08	WG614031
2-Chloroethyl vinyl ether	mg/kg	0.581	0	.125	93.0	10-173	L596744-08	WG614031
2-Chlorotoluene	**mg/kg**	**0.122**	**0**	**.025**	**97.2**	**34-136**	**L596744-08**	**WG614031**
4-Chlorotoluene	mg/kg	0.115	0	.025	92.0	31-137	L596744-08	WG614031
4-Methyl-2-pentanone (MIBK)	mg/kg	0.596	0	.125	95.3	37-153	L596744-08	WG614031
Acetone	**mg/kg**	**0.460**	**0**	**.125**	**73.6**	**10-177**	**L596744-08**	**WG614031**
Acrylonitrile	mg/kg	0.587	0	.125	93.9	33-159	L596744-08	WG614031
Benzene	mg/kg	0.119	0	.025	95.3	44-131	L596744-08	WG614031
Bromobenzene	**mg/kg**	**0.113**	**0**	**.025**	**90.2**	**36-132**	**L596744-08**	**WG614031**
Bromodichloromethane	mg/kg	0.111	0	.025	88.4	48-134	L596744-08	WG614031
Bromoform	mg/kg	0.109	0	.025	87.2	34-141	L596744-08	WG614031
Bromomethane	**mg/kg**	**0.126**	**0**	**.025**	**101.**	**19-173**	**L596744-08**	**WG614031**
Carbon tetrachloride	mg/kg	0.127	0	.025	101.	36-140	L596744-08	WG614031
Chlorobenzene	mg/kg	0.116	0	.025	92.5	42-133	L596744-08	WG614031

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Quality Assurance Report
Level II

L596744

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chlorodibromomethane	**mg/kg**	**0.110**	**0**	**.025**	**87.7**	**45-135**	**L596744-08**	**WG614031**
Chloroethane	mg/kg	0.133	0	.025	107.	16-178	L596744-08	WG614031
Chloroform	mg/kg	0.120	0	.025	96.0	52-130	L596744-08	WG614031
Chloromethane	**mg/kg**	**0.106**	**0**	**.025**	**84.8**	**28-147**	**L596744-08**	**WG614031**
cis-1,2-Dichloroethene	mg/kg	0.119	0	.025	95.4	52-128	L596744-08	WG614031
cis-1,3-Dichloropropene	mg/kg	0.114	0	.025	91.1	46-131	L596744-08	WG614031
Di-isopropyl ether	**mg/kg**	**0.121**	**0**	**.025**	**97.0**	**46-134**	**L596744-08**	**WG614031**
Dibromomethane	mg/kg	0.113	0	.025	90.3	51-133	L596744-08	WG614031
Dichlorodifluoromethane	mg/kg	0.119	0	.025	95.0	12-179	L596744-08	WG614031
Ethylbenzene	**mg/kg**	**0.123**	**0**	**.025**	**98.3**	**38-139**	**L596744-08**	**WG614031**
Hexachloro-1,3-butadiene	mg/kg	0.112	0	.025	90.0	10-147	L596744-08	WG614031
Isopropylbenzene	mg/kg	0.127	0	.025	102.	34-137	L596744-08	WG614031
Methyl tert-butyl ether	**mg/kg**	**0.120**	**0**	**.025**	**96.3**	**45-134**	**L596744-08**	**WG614031**
Methylene Chloride	mg/kg	0.114	0	.025	90.9	41-133	L596744-08	WG614031
n-Butylbenzene	mg/kg	0.118	0	.025	94.2	19-149	L596744-08	WG614031
n-Propylbenzene	**mg/kg**	**0.124**	**0**	**.025**	**99.4**	**27-142**	**L596744-08**	**WG614031**
Naphthalene	mg/kg	0.100	0	.025	80.1	19-146	L596744-08	WG614031
p-Isopropyltoluene	mg/kg	0.125	0	.025	100.	21-150	L596744-08	WG614031
sec-Butylbenzene	**mg/kg**	**0.125**	**0**	**.025**	**100.**	**25-148**	**L596744-08**	**WG614031**
Styrene	mg/kg	0.118	0	.025	94.3	30-156	L596744-08	WG614031
tert-Butylbenzene	mg/kg	0.128	0	.025	102.	32-146	L596744-08	WG614031
Tetrachloroethene	**mg/kg**	**0.116**	**0**	**.025**	**93.2**	**35-139**	**L596744-08**	**WG614031**
Toluene	mg/kg	0.122	0	.025	97.7	43-127	L596744-08	WG614031
trans-1,2-Dichloroethene	mg/kg	0.112	0	.025	89.9	41-132	L596744-08	WG614031
trans-1,3-Dichloropropene	**mg/kg**	**0.117**	**0**	**.025**	**93.8**	**43-129**	**L596744-08**	**WG614031**
Trichloroethene	mg/kg	0.119	0	.025	94.8	42-136	L596744-08	WG614031
Trichlorofluoromethane	mg/kg	0.138	0	.025	110.	20-178	L596744-08	WG614031
Vinyl chloride	**mg/kg**	**0.117**	**0**	**.025**	**93.6**	**30-157**	**L596744-08**	**WG614031**
Xylenes, Total	mg/kg	0.368	0	.075	98.2	38-137	L596744-08	WG614031
4-Bromofluorobenzene					100.4	67-133		WG614031
Dibromofluoromethane					**102.3**	**72-135**		**WG614031**
Toluene-d8					99.75	90-113		WG614031
Benzene	**mg/l**	**0.0386**	**0**	**.05**	**77.3**	**35-147**	**L596744-01**	**WG614251**
Ethylbenzene	mg/l	0.0468	0	.05	93.7	39-141	L596744-01	WG614251
Methyl tert-butyl ether	mg/l	0.0364	0	.05	72.7	37-147	L596744-01	WG614251
Toluene	**mg/l**	**0.0438**	**0**	**.05**	**87.5**	**35-148**	**L596744-01**	**WG614251**
Total Xylene	mg/l	0.141	0	.15	94.1	33-151	L596744-01	WG614251
a,a,a-Trifluorotoluene(PID)					101.3	55-122		WG614251
TPH (GC/FID) Low Fraction	**mg/l**	**5.08**	**0**	**5.5**	**92.4**	**55-109**	**L596744-01**	**WG614251**
a,a,a-Trifluorotoluene(FID)					96.01	62-128		WG614251
1,1,1,2-Tetrachloroethane	**mg/kg**	**0.111**	**0**	**.025**	**88.8**	**49-135**	**L596742-03**	**WG614033**
1,1,1-Trichloroethane	mg/kg	0.126	0	.025	101.	43-142	L596742-03	WG614033
1,1,2,2-Tetrachloroethane	mg/kg	0.0999	0	.025	79.9	42-147	L596742-03	WG614033
1,1,2-Trichloroethane	**mg/kg**	**0.108**	**0**	**.025**	**86.1**	**51-134**	**L596742-03**	**WG614033**
1,1,2-Trichlorotrifluoroethane	mg/kg	0.107	0	.025	85.6	25-156	L596742-03	WG614033
1,1-Dichloroethane	mg/kg	0.103	0	.025	82.1	50-131	L596742-03	WG614033
1,1-Dichloroethene	**mg/kg**	**0.102**	**0**	**.025**	**81.4**	**29-145**	**L596742-03**	**WG614033**
1,1-Dichloropropene	mg/kg	0.107	0	.025	85.5	40-136	L596742-03	WG614033
1,2,3-Trichlorobenzene	mg/kg	0.0823	0	.025	65.8	13-142	L596742-03	WG614033
1,2,3-Trichloropropane	**mg/kg**	**0.117**	**0**	**.025**	**93.9**	**41-149**	**L596742-03**	**WG614033**
1,2,3-Trimethylbenzene	mg/kg	0.101	0	.025	80.9	33-146	L596742-03	WG614033
1,2,4-Trichlorobenzene	mg/kg	0.0855	0	.025	68.4	12-140	L596742-03	WG614033
1,2,4-Trimethylbenzene	**mg/kg**	**0.106**	**0**	**.025**	**84.5**	**29-143**	**L596742-03**	**WG614033**
1,2-Dibromo-3-Chloropropane	mg/kg	0.121	0	.025	96.6	29-151	L596742-03	WG614033
1,2-Dibromoethane	mg/kg	0.108	0	.025	86.0	48-133	L596742-03	WG614033

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1,2-Dichlorobenzene	**mg/kg**	**0.103**	**0**	**.025**	**82.0**	**37-136**	**L596742-03**	**WG614033**
1,2-Dichloroethane	mg/kg	0.117	0	.025	94.0	49-131	L596742-03	WG614033
1,2-Dichloropropane	mg/kg	0.0992	0	.025	79.3	50-132	L596742-03	WG614033
1,3,5-Trimethylbenzene	**mg/kg**	**0.108**	**0**	**.025**	**86.7**	**29-144**	**L596742-03**	**WG614033**
1,3-Dichlorobenzene	mg/kg	0.103	0	.025	82.2	26-140	L596742-03	WG614033
1,3-Dichloropropane	mg/kg	0.103	0	.025	82.6	50-126	L596742-03	WG614033
1,4-Dichlorobenzene	**mg/kg**	**0.0985**	**0**	**.025**	**78.8**	**34-132**	**L596742-03**	**WG614033**
2,2-Dichloropropane	mg/kg	0.118	0	.025	94.1	35-148	L596742-03	WG614033
2-Butanone (MEK)	mg/kg	0.693	0	.125	111.	40-149	L596742-03	WG614033
2-Chloroethyl vinyl ether	**mg/kg**	**0.396**	**0**	**.125**	**63.4**	**10-173**	**L596742-03**	**WG614033**
2-Chlorotoluene	mg/kg	0.108	0	.025	86.8	34-136	L596742-03	WG614033
4-Chlorotoluene	mg/kg	0.106	0	.025	84.9	31-137	L596742-03	WG614033
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**0.600**	**0**	**.125**	**96.0**	**37-153**	**L596742-03**	**WG614033**
Acetone	mg/kg	0.805	0.00595	.125	128.	10-177	L596742-03	WG614033
Acrylonitrile	mg/kg	0.531	0	.125	85.0	33-159	L596742-03	WG614033
Benzene	**mg/kg**	**0.100**	**0**	**.025**	**80.3**	**44-131**	**L596742-03**	**WG614033**
Bromobenzene	mg/kg	0.105	0	.025	83.7	36-132	L596742-03	WG614033
Bromodichloromethane	mg/kg	0.116	0	.025	92.5	48-134	L596742-03	WG614033
Bromoform	**mg/kg**	**0.118**	**0**	**.025**	**94.3**	**34-141**	**L596742-03**	**WG614033**
Bromomethane	mg/kg	0.0925	0	.025	74.0	19-173	L596742-03	WG614033
Carbon tetrachloride	mg/kg	0.120	0.00158	.025	94.8	36-140	L596742-03	WG614033
Chlorobenzene	**mg/kg**	**0.103**	**0**	**.025**	**82.1**	**42-133**	**L596742-03**	**WG614033**
Chlorodibromomethane	mg/kg	0.116	0	.025	93.0	45-135	L596742-03	WG614033
Chloroethane	mg/kg	0.0954	0	.025	76.3	16-178	L596742-03	WG614033
Chloroform	**mg/kg**	**0.111**	**0**	**.025**	**89.0**	**52-130**	**L596742-03**	**WG614033**
Chloromethane	mg/kg	0.0891	0	.025	71.3	28-147	L596742-03	WG614033
cis-1,2-Dichloroethene	mg/kg	0.0996	0	.025	79.7	52-128	L596742-03	WG614033
cis-1,3-Dichloropropene	**mg/kg**	**0.103**	**0**	**.025**	**82.3**	**46-131**	**L596742-03**	**WG614033**
Di-isopropyl ether	mg/kg	0.101	0	.025	80.8	46-134	L596742-03	WG614033
Dibromomethane	mg/kg	0.108	0	.025	86.2	51-133	L596742-03	WG614033
Dichlorodifluoromethane	**mg/kg**	**0.105**	**0**	**.025**	**83.7**	**12-179**	**L596742-03**	**WG614033**
Ethylbenzene	mg/kg	0.109	0	.025	86.9	38-139	L596742-03	WG614033
Hexachloro-1,3-butadiene	mg/kg	0.105	0	.025	84.0	10-147	L596742-03	WG614033
Isopropylbenzene	**mg/kg**	**0.118**	**0**	**.025**	**94.7**	**34-137**	**L596742-03**	**WG614033**
Methyl tert-butyl ether	mg/kg	0.105	0	.025	83.7	45-134	L596742-03	WG614033
Methylene Chloride	mg/kg	0.0812	0	.025	65.0	41-133	L596742-03	WG614033
n-Butylbenzene	**mg/kg**	**0.102**	**0**	**.025**	**81.7**	**19-149**	**L596742-03**	**WG614033**
n-Propylbenzene	mg/kg	0.111	0.000366	.025	88.1	27-142	L596742-03	WG614033
Naphthalene	mg/kg	0.0935	0	.025	74.8	19-146	L596742-03	WG614033
p-Isopropyltoluene	**mg/kg**	**0.109**	**0**	**.025**	**87.3**	**21-150**	**L596742-03**	**WG614033**
sec-Butylbenzene	mg/kg	0.112	0	.025	89.3	25-148	L596742-03	WG614033
Styrene	mg/kg	0.105	0	.025	83.8	30-156	L596742-03	WG614033
tert-Butylbenzene	**mg/kg**	**0.118**	**0**	**.025**	**94.1**	**32-146**	**L596742-03**	**WG614033**
Tetrachloroethene	mg/kg	0.109	0	.025	87.2	35-139	L596742-03	WG614033
Toluene	mg/kg	0.101	0	.025	80.4	43-127	L596742-03	WG614033
trans-1,2-Dichloroethene	**mg/kg**	**0.0920**	**0**	**.025**	**73.6**	**41-132**	**L596742-03**	**WG614033**
trans-1,3-Dichloropropene	mg/kg	0.108	0.00178	.025	84.7	43-129	L596742-03	WG614033
Trichloroethene	mg/kg	0.110	0	.025	88.2	42-136	L596742-03	WG614033
Trichlorofluoromethane	**mg/kg**	**0.123**	**0**	**.025**	**98.7**	**20-178**	**L596742-03**	**WG614033**
Vinyl chloride	mg/kg	0.0936	0	.025	74.8	30-157	L596742-03	WG614033
Xylenes, Total	mg/kg	0.320	0	.075	85.4	38-137	L596742-03	WG614033
4-Bromofluorobenzene					**106.6**	**67-133**		**WG614033**
Dibromofluoromethane					105.6	72-135		WG614033
Toluene-d8					106.6	90-113		WG614033
1,1,1,2-Tetrachloroethane	mg/kg	0.113	0	.025	90.7	49-135	L596692-02	WG614030
1,1,1-Trichloroethane	mg/kg	0.108	0	.025	86.4	43-142	L596692-02	WG614030
1,1,2,2-Tetrachloroethane	**mg/kg**	**0.0825**	**0**	**.025**	**66.0**	**42-147**	**L596692-02**	**WG614030**

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	**mg/kg**	**0.115**	**0**	**.025**	**92.4**	**51-134**	**L596692-02**	**WG614030**
1,1,2-Trichlorotrifluoroethane	mg/kg	0.105	0	.025	83.8	25-156	L596692-02	WG614030
1,1-Dichloroethane	mg/kg	0.109	0	.025	87.0	50-131	L596692-02	WG614030
1,1-Dichloroethene	**mg/kg**	**0.105**	**0**	**.025**	**84.2**	**29-145**	**L596692-02**	**WG614030**
1,1-Dichloropropene	mg/kg	0.107	0	.025	85.9	40-136	L596692-02	WG614030
1,2,3-Trichlorobenzene	mg/kg	0.114	0	.025	91.1	13-142	L596692-02	WG614030
1,2,3-Trichloropropane	**mg/kg**	**0.118**	**0**	**.025**	**94.6**	**41-149**	**L596692-02**	**WG614030**
1,2,3-Trimethylbenzene	mg/kg	0.121	0	.025	97.2	33-146	L596692-02	WG614030
1,2,4-Trichlorobenzene	mg/kg	0.115	0	.025	91.9	12-140	L596692-02	WG614030
1,2,4-Trimethylbenzene	**mg/kg**	**0.105**	**0**	**.025**	**84.1**	**29-143**	**L596692-02**	**WG614030**
1,2-Dibromo-3-Chloropropane	mg/kg	0.133	0	.025	106.	29-151	L596692-02	WG614030
1,2-Dibromoethane	mg/kg	0.115	0	.025	91.8	48-133	L596692-02	WG614030
1,2-Dichlorobenzene	**mg/kg**	**0.122**	**0**	**.025**	**97.3**	**37-136**	**L596692-02**	**WG614030**
1,2-Dichloroethane	mg/kg	0.109	0	.025	87.4	49-131	L596692-02	WG614030
1,2-Dichloropropane	mg/kg	0.114	0	.025	90.8	50-132	L596692-02	WG614030
1,3,5-Trimethylbenzene	**mg/kg**	**0.104**	**0**	**.025**	**83.3**	**29-144**	**L596692-02**	**WG614030**
1,3-Dichlorobenzene	mg/kg	0.105	0	.025	84.2	26-140	L596692-02	WG614030
1,3-Dichloropropane	mg/kg	0.116	0	.025	92.7	50-126	L596692-02	WG614030
1,4-Dichlorobenzene	**mg/kg**	**0.119**	**0**	**.025**	**94.9**	**34-132**	**L596692-02**	**WG614030**
2,2-Dichloropropane	mg/kg	0.111	0	.025	89.0	35-148	L596692-02	WG614030
2-Butanone (MEK)	mg/kg	0.607	0	.125	97.0	40-149	L596692-02	WG614030
2-Chloroethyl vinyl ether	**mg/kg**	**0.602**	**0**	**.125**	**96.4**	**10-173**	**L596692-02**	**WG614030**
2-Chlorotoluene	mg/kg	0.106	0	.025	85.1	34-136	L596692-02	WG614030
4-Chlorotoluene	mg/kg	0.107	0	.025	85.3	31-137	L596692-02	WG614030
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**0.602**	**0**	**.125**	**96.3**	**37-153**	**L596692-02**	**WG614030**
Acetone	mg/kg	0.581	0	.125	93.0	10-177	L596692-02	WG614030
Acrylonitrile	mg/kg	0.593	0	.125	94.9	33-159	L596692-02	WG614030
Benzene	**mg/kg**	**0.108**	**0**	**.025**	**86.6**	**44-131**	**L596692-02**	**WG614030**
Bromobenzene	mg/kg	0.107	0	.025	85.4	36-132	L596692-02	WG614030
Bromodichloromethane	mg/kg	0.112	0	.025	89.4	48-134	L596692-02	WG614030
Bromoform	**mg/kg**	**0.121**	**0**	**.025**	**96.6**	**34-141**	**L596692-02**	**WG614030**
Bromomethane	mg/kg	0.125	0	.025	99.8	19-173	L596692-02	WG614030
Carbon tetrachloride	mg/kg	0.106	0	.025	85.0	36-140	L596692-02	WG614030
Chlorobenzene	**mg/kg**	**0.112**	**0**	**.025**	**89.2**	**42-133**	**L596692-02**	**WG614030**
Chlorodibromomethane	mg/kg	0.118	0	.025	94.2	45-135	L596692-02	WG614030
Chloroethane	mg/kg	0.112	0	.025	89.8	16-178	L596692-02	WG614030
Chloroform	**mg/kg**	**0.108**	**0**	**.025**	**86.8**	**52-130**	**L596692-02**	**WG614030**
Chloromethane	mg/kg	0.0860	0	.025	68.8	28-147	L596692-02	WG614030
cis-1,2-Dichloroethene	mg/kg	0.110	0	.025	87.8	52-128	L596692-02	WG614030
cis-1,3-Dichloropropene	**mg/kg**	**0.114**	**0**	**.025**	**91.1**	**46-131**	**L596692-02**	**WG614030**
Di-isopropyl ether	mg/kg	0.110	0	.025	88.4	46-134	L596692-02	WG614030
Dibromomethane	mg/kg	0.113	0	.025	90.4	51-133	L596692-02	WG614030
Dichlorodifluoromethane	**mg/kg**	**0.110**	**0**	**.025**	**88.1**	**12-179**	**L596692-02**	**WG614030**
Ethylbenzene	mg/kg	0.112	0	.025	89.3	38-139	L596692-02	WG614030
Hexachloro-1,3-butadiene	mg/kg	0.107	0	.025	85.4	10-147	L596692-02	WG614030
Isopropylbenzene	**mg/kg**	**0.109**	**0**	**.025**	**87.3**	**34-137**	**L596692-02**	**WG614030**
Methyl tert-butyl ether	mg/kg	0.110	0	.025	87.6	45-134	L596692-02	WG614030
Methylene Chloride	mg/kg	0.103	0	.025	82.1	41-133	L596692-02	WG614030
n-Butylbenzene	**mg/kg**	**0.119**	**0**	**.025**	**95.3**	**19-149**	**L596692-02**	**WG614030**
n-Propylbenzene	mg/kg	0.108	0	.025	86.1	27-142	L596692-02	WG614030
Naphthalene	mg/kg	0.124	0	.025	99.4	19-146	L596692-02	WG614030
p-Isopropyltoluene	**mg/kg**	**0.104**	**0**	**.025**	**83.0**	**21-150**	**L596692-02**	**WG614030**
sec-Butylbenzene	mg/kg	0.103	0	.025	82.0	25-148	L596692-02	WG614030
Styrene	mg/kg	0.112	0	.025	89.7	30-156	L596692-02	WG614030
tert-Butylbenzene	**mg/kg**	**0.105**	**0**	**.025**	**84.1**	**32-146**	**L596692-02**	**WG614030**
Tetrachloroethene	mg/kg	0.116	0	.025	92.4	35-139	L596692-02	WG614030
Toluene	mg/kg	0.107	0	.025	85.2	43-127	L596692-02	WG614030
trans-1,2-Dichloroethene	**mg/kg**	**0.109**	**0**	**.025**	**87.2**	**41-132**	**L596692-02**	**WG614030**
trans-1,3-Dichloropropene	mg/kg	0.116	0	.025	92.8	43-129	L596692-02	WG614030

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichloroethene	**mg/kg**	**0.141**	**0**	**.025**	**113.**	**42-136**	**L596692-02**	**WG614030**
Trichlorofluoromethane	mg/kg	0.111	0	.025	88.5	20-178	L596692-02	WG614030
Vinyl chloride	mg/kg	0.115	0	.025	91.9	30-157	L596692-02	WG614030
Xylenes, Total	**mg/kg**	**0.329**	**0**	**.075**	**87.9**	**38-137**	**L596692-02**	**WG614030**
4-Bromofluorobenzene					84.91	67-133		WG614030
Dibromofluoromethane					91.48	72-135		WG614030
Toluene-d8					**93.20**	**90-113**		**WG614030**
Benzene	mg/kg	0.227	0	.05	90.7	32-137	L596547-02	WG614452
Ethylbenzene	**mg/kg**	**0.239**	**0**	**.05**	**95.7**	**10-150**	**L596547-02**	**WG614452**
Methyl tert-butyl ether	mg/kg	0.227	0	.05	90.7	24-151	L596547-02	WG614452
Toluene	mg/kg	0.237	0	.05	94.8	20-142	L596547-02	WG614452
Total Xylene	**mg/kg**	**0.690**	**0**	**.15**	**92.0**	**16-141**	**L596547-02**	**WG614452**
a,a,a-Trifluorotoluene(PID)					104.7	54-144		WG614452
TPH (GC/FID) Low Fraction	mg/kg	23.8	0	5.5	86.7	55-109	L596547-02	WG614452
a,a,a-Trifluorotoluene(FID)					**103.2**	**59-128**		**WG614452**
1,1,1,2-Tetrachloroethane	mg/kg	0.137	0	.025	109.	49-135	L596940-05	WG614631
1,1,1-Trichloroethane	**mg/kg**	**0.153**	**0**	**.025**	**122.**	**43-142**	**L596940-05**	**WG614631**
1,1,2,2-Tetrachloroethane	mg/kg	0.126	0	.025	101.	42-147	L596940-05	WG614631
1,1,2-Trichloroethane	mg/kg	0.133	0	.025	107.	51-134	L596940-05	WG614631
1,1,2-Trichlorotrifluoroethane	**mg/kg**	**0.142**	**0**	**.025**	**114.**	**25-156**	**L596940-05**	**WG614631**
1,1-Dichloroethane	mg/kg	0.148	0	.025	118.	50-131	L596940-05	WG614631
1,1-Dichloroethene	mg/kg	0.156	0	.025	125.	29-145	L596940-05	WG614631
1,1-Dichloropropene	**mg/kg**	**0.154**	**0**	**.025**	**123.**	**40-136**	**L596940-05**	**WG614631**
1,2,3-Trichlorobenzene	mg/kg	0.106	0	.025	84.8	13-142	L596940-05	WG614631
1,2,3-Trichloropropane	mg/kg	0.129	0	.025	104.	41-149	L596940-05	WG614631
1,2,3-Trimethylbenzene	**mg/kg**	**0.127**	**0**	**.025**	**102.**	**33-146**	**L596940-05**	**WG614631**
1,2,4-Trichlorobenzene	mg/kg	0.103	0	.025	82.4	12-140	L596940-05	WG614631
1,2,4-Trimethylbenzene	mg/kg	0.135	0.000388	.025	108.	29-143	L596940-05	WG614631
1,2-Dibromo-3-Chloropropane	**mg/kg**	**0.118**	**0**	**.025**	**94.2**	**29-151**	**L596940-05**	**WG614631**
1,2-Dibromoethane	mg/kg	0.135	0	.025	108.	48-133	L596940-05	WG614631
1,2-Dichlorobenzene	mg/kg	0.125	0	.025	99.7	37-136	L596940-05	WG614631
1,2-Dichloroethane	**mg/kg**	**0.143**	**0**	**.025**	**115.**	**49-131**	**L596940-05**	**WG614631**
1,2-Dichloropropane	mg/kg	0.141	0	.025	112.	50-132	L596940-05	WG614631
1,3,5-Trimethylbenzene	mg/kg	0.136	0	.025	109.	29-144	L596940-05	WG614631
1,3-Dichlorobenzene	**mg/kg**	**0.131**	**0**	**.025**	**105.**	**26-140**	**L596940-05**	**WG614631**
1,3-Dichloropropane	mg/kg	0.135	0	.025	108.	50-126	L596940-05	WG614631
1,4-Dichlorobenzene	mg/kg	0.118	0	.025	94.3	34-132	L596940-05	WG614631
2,2-Dichloropropane	**mg/kg**	**0.148**	**0**	**.025**	**118.**	**35-148**	**L596940-05**	**WG614631**
2-Butanone (MEK)	mg/kg	0.505	0	.125	80.9	40-149	L596940-05	WG614631
2-Chloroethyl vinyl ether	mg/kg	0.669	0	.125	107.	10-173	L596940-05	WG614631
2-Chlorotoluene	**mg/kg**	**0.139**	**0**	**.025**	**111.**	**34-136**	**L596940-05**	**WG614631**
4-Chlorotoluene	mg/kg	0.131	0	.025	105.	31-137	L596940-05	WG614631
4-Methyl-2-pentanone (MIBK)	mg/kg	0.631	0	.125	101.	37-153	L596940-05	WG614631
Acetone	**mg/kg**	**0.472**	**0**	**.125**	**75.6**	**10-177**	**L596940-05**	**WG614631**
Acrylonitrile	mg/kg	0.644	0	.125	103.	33-159	L596940-05	WG614631
Benzene	mg/kg	0.150	0	.025	120.	44-131	L596940-05	WG614631
Bromobenzene	**mg/kg**	**0.129**	**0**	**.025**	**104.**	**36-132**	**L596940-05**	**WG614631**
Bromodichloromethane	mg/kg	0.132	0	.025	105.	48-134	L596940-05	WG614631
Bromoform	mg/kg	0.122	0	.025	97.3	34-141	L596940-05	WG614631
Bromomethane	**mg/kg**	**0.177**	**0**	**.025**	**141.**	**19-173**	**L596940-05**	**WG614631**
Carbon tetrachloride	mg/kg	0.153	0	.025	122.	36-140	L596940-05	WG614631
Chlorobenzene	mg/kg	0.137	0	.025	110.	42-133	L596940-05	WG614631
Chlorodibromomethane	**mg/kg**	**0.131**	**0**	**.025**	**105.**	**45-135**	**L596940-05**	**WG614631**
Chloroethane	mg/kg	0.183	0	.025	147.	16-178	L596940-05	WG614631
Chloroform	mg/kg	0.143	0	.025	114.	52-130	L596940-05	WG614631

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Est. 1970

Olsson Associates
Karen O'Connor
1111 Lincoln Mall, Ste 111

Lincoln, NE 68508

Quality Assurance Report
Level II

L596744

October 02, 2012

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chloromethane	mg/kg	0.159	0	.025	127.	28-147	L596940-05	WG614631
cis-1,2-Dichloroethene	mg/kg	0.146	0	.025	117.	52-128	L596940-05	WG614631
cis-1,3-Dichloropropene	mg/kg	0.136	0	.025	109.	46-131	L596940-05	WG614631
Di-isopropyl ether	mg/kg	0.139	0	.025	111.	46-134	L596940-05	WG614631
Dibromomethane	mg/kg	0.133	0	.025	106.	51-133	L596940-05	WG614631
Dichlorodifluoromethane	mg/kg	0.165	0	.025	132.	12-179	L596940-05	WG614631
Ethylbenzene	mg/kg	0.142	0	.025	114.	38-139	L596940-05	WG614631
Hexachloro-1,3-butadiene	mg/kg	0.108	0	.025	86.2	10-147	L596940-05	WG614631
Isopropylbenzene	mg/kg	0.138	0	.025	110.	34-137	L596940-05	WG614631
Methyl tert-butyl ether	mg/kg	0.135	0	.025	108.	45-134	L596940-05	WG614631
Methylene Chloride	mg/kg	0.142	0	.025	114.	41-133	L596940-05	WG614631
n-Butylbenzene	mg/kg	0.120	0	.025	95.9	19-149	L596940-05	WG614631
n-Propylbenzene	mg/kg	0.138	0	.025	111.	27-142	L596940-05	WG614631
Naphthalene	mg/kg	0.108	0	.025	86.3	19-146	L596940-05	WG614631
p-Isopropyltoluene	mg/kg	0.132	0	.025	106.	21-150	L596940-05	WG614631
sec-Butylbenzene	mg/kg	0.134	0	.025	107.	25-148	L596940-05	WG614631
Styrene	mg/kg	0.138	0	.025	110.	30-156	L596940-05	WG614631
tert-Butylbenzene	mg/kg	0.140	0	.025	112.	32-146	L596940-05	WG614631
Tetrachloroethene	mg/kg	0.149	0	.025	119.	35-139	L596940-05	WG614631
Toluene	mg/kg	0.138	0	.025	110.	43-127	L596940-05	WG614631
trans-1,2-Dichloroethene	mg/kg	0.150	0	.025	120.	41-132	L596940-05	WG614631
trans-1,3-Dichloropropene	mg/kg	0.136	0	.025	108.	43-129	L596940-05	WG614631
Trichloroethene	mg/kg	0.157	0	.025	126.	42-136	L596940-05	WG614631
Trichlorofluoromethane	mg/kg	0.178	0	.025	143.	20-178	L596940-05	WG614631
Vinyl chloride	mg/kg	0.165	0	.025	132.	30-157	L596940-05	WG614631
Xylenes, Total	mg/kg	0.419	0	.075	112.	38-137	L596940-05	WG614631
4-Bromofluorobenzene					101.5	67-133		WG614631
Dibromofluoromethane					102.9	72-135		WG614631
Toluene-d8					100.7	90-113		WG614631
Diesel	mg/kg	20.0	0	30	66.6	50-150	L596742-01	WG614225
Motor Oil	mg/kg	18.4	0	30	61.5	50-150	L596742-01	WG614225
o-Terphenyl					64.29	50-150		WG614225
Diesel	mg/kg	21.8	0	30	72.5	50-150	L597180-02	WG615640
Motor Oil	mg/kg	41.6	31.0	30	35.4*	50-150	L597180-02	WG615640
o-Terphenyl					63.60	50-150		WG615640

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0246	0.0236	98.2	71-130	4.12	20	L596744-05	WG614071
1,1,1-Trichloroethane	mg/l	0.0247	0.0242	98.9	58-137	2.36	20	L596744-05	WG614071
1,1,2,2-Tetrachloroethane	mg/l	0.0252	0.0232	101.	64-149	8.49	20	L596744-05	WG614071
1,1,2-Trichloroethane	mg/l	0.0256	0.0235	102.	73-128	8.33	20	L596744-05	WG614071
1,1,2-Trichlorotrifluoroethane	mg/l	0.0257	0.0252	103.	36-159	2.11	21	L596744-05	WG614071
1,1-Dichloroethane	mg/l	0.0244	0.0238	97.5	58-133	2.57	20	L596744-05	WG614071
1,1-Dichloroethene	mg/l	0.0254	0.0249	102.	32-152	1.77	20	L596744-05	WG614071
1,1-Dichloropropene	mg/l	0.0241	0.0240	96.3	50-140	0.330	20	L596744-05	WG614071
1,2,3-Trichlorobenzene	mg/l	0.0231	0.0218	92.4	68-135	5.81	20	L596744-05	WG614071
1,2,3-Trichloropropane	mg/l	0.0259	0.0245	104.	74-137	5.51	20	L596744-05	WG614071
1,2,3-Trimethylbenzene	mg/l	0.0228	0.0217	91.3	67-133	5.06	20	L596744-05	WG614071
1,2,4-Trichlorobenzene	mg/l	0.0243	0.0233	97.0	67-133	3.97	20	L596744-05	WG614071
1,2,4-Trimethylbenzene	mg/l	0.0233	0.0220	93.2	62-141	5.87	20	L596744-05	WG614071
1,2-Dibromo-3-Chloropropane	mg/l	0.0285	0.0244	114.	55-148	15.7	22	L596744-05	WG614071
1,2-Dibromoethane	mg/l	0.0261	0.0238	104.	71-129	8.97	20	L596744-05	WG614071
1,2-Dichlorobenzene	mg/l	0.0242	0.0228	96.9	75-125	6.15	20	L596744-05	WG614071

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Level II

L596744

October 02, 2012

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dichloroethane	**mg/l**	**0.0321**	**0.0309**	**98.5**	**59-135**	**3.93**	**20**	**L596744-05**	**WG614071**
1,2-Dichloropropane	mg/l	0.0240	0.0220	95.9	68-126	8.44	20	L596744-05	WG614071
1,3,5-Trimethylbenzene	mg/l	0.0236	0.0226	94.2	67-136	3.94	20	L596744-05	WG614071
1,3-Dichlorobenzene	**mg/l**	**0.0238**	**0.0234**	**95.4**	**69-131**	**1.95**	**20**	**L596744-05**	**WG614071**
1,3-Dichloropropane	mg/l	0.0245	0.0231	98.1	70-122	6.11	20	L596744-05	WG614071
1,4-Dichlorobenzene	mg/l	0.0240	0.0225	96.1	70-123	6.38	20	L596744-05	WG614071
2,2-Dichloropropane	**mg/l**	**0.0232**	**0.0228**	**92.9**	**51-141**	**1.91**	**20**	**L596744-05**	**WG614071**
2-Butanone (MEK)	mg/l	0.139	0.109	111.	51-149	24.6*	22	L596744-05	WG614071
2-Chloroethyl vinyl ether	mg/l	0.000350	0.000852	0.280*	10-161	83.5*	40	L596744-05	WG614071
2-Chlorotoluene	**mg/l**	**0.0234**	**0.0229**	**93.5**	**65-133**	**1.97**	**20**	**L596744-05**	**WG614071**
4-Chlorotoluene	mg/l	0.0236	0.0227	94.6	67-129	4.06	20	L596744-05	WG614071
4-Methyl-2-pentanone (MIBK)	mg/l	0.146	0.126	117.	53-154	15.2	21	L596744-05	WG614071
Acetone	**mg/l**	**0.153**	**0.130**	**122.**	**34-146**	**16.0**	**22**	**L596744-05**	**WG614071**
Acrolein	mg/l	0.132	0.121	105.	10-189	8.60	30	L596744-05	WG614071
Acrylonitrile	mg/l	0.155	0.135	124.	49-162	14.0	20	L596744-05	WG614071
Benzene	**mg/l**	**0.0239**	**0.0233**	**95.5**	**51-134**	**2.64**	**20**	**L596744-05**	**WG614071**
Bromobenzene	mg/l	0.0229	0.0222	91.4	64-130	3.14	20	L596744-05	WG614071
Bromodichloromethane	mg/l	0.0233	0.0221	93.2	67-132	5.07	20	L596744-05	WG614071
Bromoform	**mg/l**	**0.0266**	**0.0244**	**106.**	**59-137**	**8.49**	**20**	**L596744-05**	**WG614071**
Bromomethane	mg/l	0.0213	0.0209	85.1	23-177	1.67	21	L596744-05	WG614071
Carbon tetrachloride	mg/l	0.0233	0.0234	93.2	49-140	0.380	20	L596744-05	WG614071
Chlorobenzene	**mg/l**	**0.0237**	**0.0225**	**95.0**	**69-126**	**5.19**	**20**	**L596744-05**	**WG614071**
Chlorodibromomethane	mg/l	0.0250	0.0234	99.8	68-130	6.54	20	L596744-05	WG614071
Chloroethane	mg/l	0.0235	0.0230	93.9	32-177	1.95	21	L596744-05	WG614071
Chloroform	**mg/l**	**0.0246**	**0.0236**	**98.4**	**64-130**	**4.01**	**20**	**L596744-05**	**WG614071**
Chloromethane	mg/l	0.0220	0.0214	88.0	27-155	2.75	20	L596744-05	WG614071
cis-1,2-Dichloroethene	mg/l	0.0242	0.0235	96.6	54-137	2.63	20	L596744-05	WG614071
cis-1,3-Dichloropropene	**mg/l**	**0.0243**	**0.0226**	**97.3**	**63-127**	**7.41**	**20**	**L596744-05**	**WG614071**
Di-isopropyl ether	mg/l	0.0248	0.0239	99.1	58-133	3.66	20	L596744-05	WG614071
Dibromomethane	mg/l	0.0252	0.0234	101.	68-131	7.34	20	L596744-05	WG614071
Dichlorodifluoromethane	**mg/l**	**0.0228**	**0.0219**	**91.2**	**16-188**	**3.87**	**22**	**L596744-05**	**WG614071**
Ethylbenzene	mg/l	0.0237	0.0233	95.0	64-135	2.07	20	L596744-05	WG614071
Hexachloro-1,3-butadiene	mg/l	0.0223	0.0220	89.2	64-140	1.38	20	L596744-05	WG614071
Isopropylbenzene	**mg/l**	**0.0251**	**0.0243**	**100.**	**62-134**	**3.15**	**20**	**L596744-05**	**WG614071**
Methyl tert-butyl ether	mg/l	0.0280	0.0260	112.	55-136	7.41	20	L596744-05	WG614071
Methylene Chloride	mg/l	0.0242	0.0238	96.7	52-130	1.69	20	L596744-05	WG614071
n-Butylbenzene	**mg/l**	**0.0235**	**0.0226**	**94.0**	**62-142**	**3.96**	**20**	**L596744-05**	**WG614071**
n-Propylbenzene	mg/l	0.0240	0.0232	95.9	62-137	3.17	20	L596744-05	WG614071
Naphthalene	mg/l	0.0252	0.0230	101.	65-140	9.29	20	L596744-05	WG614071
p-Isopropyltoluene	**mg/l**	**0.0239**	**0.0235**	**95.8**	**64-142**	**1.70**	**20**	**L596744-05**	**WG614071**
sec-Butylbenzene	mg/l	0.0238	0.0230	95.3	67-139	3.64	20	L596744-05	WG614071
Styrene	mg/l	0.0242	0.0229	96.7	58-152	5.52	20	L596744-05	WG614071
tert-Butylbenzene	**mg/l**	**0.0247**	**0.0238**	**99.0**	**66-139**	**4.02**	**20**	**L596744-05**	**WG614071**
Tetrachloroethene	mg/l	0.0247	0.0235	98.9	56-139	5.05	20	L596744-05	WG614071
Toluene	mg/l	0.0237	0.0222	94.7	61-126	6.38	20	L596744-05	WG614071
trans-1,2-Dichloroethene	**mg/l**	**0.0237**	**0.0234**	**94.7**	**45-137**	**1.17**	**20**	**L596744-05**	**WG614071**
trans-1,3-Dichloropropene	mg/l	0.0248	0.0225	99.0	59-130	9.61	20	L596744-05	WG614071
Trichloroethene	mg/l	0.0239	0.0230	95.7	40-155	3.98	20	L596744-05	WG614071
Trichlorofluoromethane	**mg/l**	**0.0259**	**0.0259**	**104.**	**35-177**	**0.280**	**23**	**L596744-05**	**WG614071**
Vinyl chloride	mg/l	0.0224	0.0219	89.4	32-159	2.23	21	L596744-05	WG614071
Xylenes, Total	mg/l	0.0718	0.0693	95.8	64-133	3.59	20	L596744-05	WG614071
4-Bromofluorobenzene				**102.0**	**82-120**				**WG614071**
Dibromofluoromethane				107.5	82-126				WG614071
Toluene-d8				107.3	92-112				WG614071
Benzene	mg/kg	0.214	0.201	85.6	32-137	6.15	39	L596744-06	WG614034
Ethylbenzene	mg/kg	0.255	0.237	102.	10-150	7.03	44	L596744-06	WG614034
Methyl **tert-butyl ether**	**mg/kg**	**0.202**	**0.195**	**80.9**	**24-151**	**3.90**	**37**	**L596744-06**	**WG614034**

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Level II

L596744

October 02, 2012

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene	**mg/kg**	**0.241**	**0.225**	**96.3**	**20-142**	**6.67**	**42**	**L596744-06**	**WG614034**
Total Xylene	mg/kg	0.785	0.737	105.	16-141	6.30	46	L596744-06	WG614034
a,a,a-Trifluorotoluene(PID)				101.7	54-144				WG614034
TPH (GC/FID) Low Fraction	**mg/kg**	**30.8**	**29.2**	**112.***	**55-109**	**5.25**	**20**	**L596744-06**	**WG614034**
a,a,a-Trifluorotoluene(FID)				103.8	59-128				WG614034
1,1,1,2-Tetrachloroethane	**mg/kg**	**0.127**	**0.118**	**102.**	**49-135**	**7.67**	**23**	**L596744-08**	**WG614031**
1,1,1-Trichloroethane	mg/kg	0.140	0.131	112.	43-142	7.13	24	L596744-08	WG614031
1,1,2,2-Tetrachloroethane	mg/kg	0.130	0.118	104.	42-147	9.35	25	L596744-08	WG614031
1,1,2-Trichloroethane	**mg/kg**	**0.125**	**0.116**	**99.9**	**51-134**	**7.82**	**21**	**L596744-08**	**WG614031**
1,1,2-Trichlorotrifluoroethane	mg/kg	0.135	0.129	108.	25-156	4.54	29	L596744-08	WG614031
1,1-Dichloroethane	mg/kg	0.132	0.124	106.	50-131	6.18	21	L596744-08	WG614031
1,1-Dichloroethene	**mg/kg**	**0.129**	**0.124**	**103.**	**29-145**	**4.00**	**28**	**L596744-08**	**WG614031**
1,1-Dichloropropene	mg/kg	0.130	0.123	104.	40-136	5.67	24	L596744-08	WG614031
1,2,3-Trichlorobenzene	mg/kg	0.110	0.104	88.3	13-142	6.11	33	L596744-08	WG614031
1,2,3-Trichloropropane	**mg/kg**	**0.127**	**0.117**	**102.**	**41-149**	**8.52**	**28**	**L596744-08**	**WG614031**
1,2,3-Trimethylbenzene	mg/kg	0.124	0.113	99.6	33-146	9.48	27	L596744-08	WG614031
1,2,4-Trichlorobenzene	mg/kg	0.110	0.104	87.9	12-140	5.36	32	L596744-08	WG614031
1,2,4-Trimethylbenzene	**mg/kg**	**0.125**	**0.121**	**100.**	**29-143**	**3.15**	**30**	**L596744-08**	**WG614031**
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.109	97.4	29-151	11.1	31	L596744-08	WG614031
1,2-Dibromoethane	mg/kg	0.125	0.113	100.	48-133	9.94	22	L596744-08	WG614031
1,2-Dichlorobenzene	**mg/kg**	**0.123**	**0.113**	**98.2**	**37-136**	**8.17**	**25**	**L596744-08**	**WG614031**
1,2-Dichloroethane	mg/kg	0.126	0.118	101.	49-131	6.71	20	L596744-08	WG614031
1,2-Dichloropropane	mg/kg	0.126	0.119	101.	50-132	5.64	21	L596744-08	WG614031
1,3,5-Trimethylbenzene	**mg/kg**	**0.129**	**0.121**	**103.**	**29-144**	**5.80**	**30**	**L596744-08**	**WG614031**
1,3-Dichlorobenzene	mg/kg	0.122	0.117	97.9	26-140	4.13	28	L596744-08	WG614031
1,3-Dichloropropane	mg/kg	0.124	0.114	99.0	50-126	8.47	22	L596744-08	WG614031
1,4-Dichlorobenzene	**mg/kg**	**0.119**	**0.108**	**95.5**	**34-132**	**9.67**	**26**	**L596744-08**	**WG614031**
2,2-Dichloropropane	mg/kg	0.138	0.129	110.	35-148	6.39	26	L596744-08	WG614031
2-Butanone (MEK)	mg/kg	0.594	0.536	95.0	40-149	10.2	27	L596744-08	WG614031
2-Chloroethyl vinyl ether	**mg/kg**	**0.630**	**0.581**	**101.**	**10-173**	**8.01**	**33**	**L596744-08**	**WG614031**
2-Chlorotoluene	mg/kg	0.129	0.122	103.	34-136	5.87	28	L596744-08	WG614031
4-Chlorotoluene	mg/kg	0.123	0.115	98.1	31-137	6.38	27	L596744-08	WG614031
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**0.656**	**0.596**	**105.**	**37-153**	**9.69**	**27**	**L596744-08**	**WG614031**
Acetone	mg/kg	0.503	0.460	80.5	10-177	8.97	28	L596744-08	WG614031
Acrylonitrile	mg/kg	0.644	0.587	103.	33-159	9.21	26	L596744-08	WG614031
Benzene	**mg/kg**	**0.126**	**0.119**	**101.**	**44-131**	**5.98**	**21**	**L596744-08**	**WG614031**
Bromobenzene	mg/kg	0.120	0.113	96.2	36-132	6.33	26	L596744-08	WG614031
Bromodichloromethane	mg/kg	0.117	0.111	93.6	48-134	5.71	20	L596744-08	WG614031
Bromoform	**mg/kg**	**0.118**	**0.109**	**94.0**	**34-141**	**7.55**	**24**	**L596744-08**	**WG614031**
Bromomethane	mg/kg	0.128	0.126	102.	19-173	1.13	25	L596744-08	WG614031
Carbon tetrachloride	mg/kg	0.134	0.127	107.	36-140	5.86	26	L596744-08	WG614031
Chlorobenzene	**mg/kg**	**0.124**	**0.116**	**99.1**	**42-133**	**6.91**	**24**	**L596744-08**	**WG614031**
Chlorodibromomethane	mg/kg	0.119	0.110	95.2	45-135	8.14	23	L596744-08	WG614031
Chloroethane	mg/kg	0.145	0.133	116.	16-178	8.59	25	L596744-08	WG614031
Chloroform	**mg/kg**	**0.128**	**0.120**	**103.**	**52-130**	**6.61**	**21**	**L596744-08**	**WG614031**
Chloromethane	mg/kg	0.112	0.106	89.3	28-147	5.25	23	L596744-08	WG614031
cis-1,2-Dichloroethene	mg/kg	0.125	0.119	99.7	52-128	4.44	21	L596744-08	WG614031
cis-1,3-Dichloropropene	**mg/kg**	**0.121**	**0.114**	**97.1**	**46-131**	**6.40**	**21**	**L596744-08**	**WG614031**
Di-isopropyl ether	mg/kg	0.129	0.121	103.	46-134	6.49	20	L596744-08	WG614031
Dibromomethane	mg/kg	0.121	0.113	96.7	51-133	6.77	21	L596744-08	WG614031
Dichlorodifluoromethane	**mg/kg**	**0.123**	**0.119**	**98.8**	**12-179**	**3.94**	**27**	**L596744-08**	**WG614031**
Ethylbenzene	mg/kg	0.132	0.123	106.	38-139	7.37	27	L596744-08	WG614031
Hexachloro-1,3-butadiene	mg/kg	0.119	0.112	95.0	10-147	5.42	37	L596744-08	WG614031
Isopropylbenzene	**mg/kg**	**0.135**	**0.127**	**108.**	**34-137**	**6.32**	**29**	**L596744-08**	**WG614031**
Methyl tert-butyl ether	mg/kg	0.128	0.120	102.	45-134	6.14	22	L596744-08	WG614031
Methylene Chloride	mg/kg	0.119	0.114	95.3	41-133	4.73	28	L596744-08	WG614031
n-Butylbenzene	**mg/kg**	**0.126**	**0.118**	**101.**	**19-149**	**6.76**	**32**	**L596744-08**	**WG614031**

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MSD	Ref	Matrix Spike Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
n-Propylbenzene	mg/kg	0.133	0.124	106.	27-142	6.50	29	L596744-08	WG614031
Naphthalene	mg/kg	0.110	0.100	88.3	19-146	9.71	30	L596744-08	WG614031
p-Isopropyltoluene	mg/kg	0.131	0.125	105.	21-150	4.53	31	L596744-08	WG614031
sec-Butylbenzene	mg/kg	0.134	0.125	107.	25-148	6.58	31	L596744-08	WG614031
Styrene	mg/kg	0.127	0.118	101.	30-156	7.03	26	L596744-08	WG614031
tert-Butylbenzene	mg/kg	0.136	0.128	109.	32-146	6.58	30	L596744-08	WG614031
Tetrachloroethene	mg/kg	0.126	0.116	101.	35-139	8.24	27	L596744-08	WG614031
Toluene	mg/kg	0.122	0.122	97.8	43-127	0.120	21	L596744-08	WG614031
trans-1,2-Dichloroethene	mg/kg	0.118	0.112	94.5	41-132	4.92	23	L596744-08	WG614031
trans-1,3-Dichloropropene	mg/kg	0.121	0.117	97.1	43-129	3.38	23	L596744-08	WG614031
Trichloroethene	mg/kg	0.128	0.119	103.	42-136	8.01	23	L596744-08	WG614031
Trichlorofluoromethane	mg/kg	0.155	0.138	124.	20-178	11.5	30	L596744-08	WG614031
Vinyl chloride	mg/kg	0.124	0.117	99.3	30-157	5.89	24	L596744-08	WG614031
Xylenes, Total	mg/kg	0.385	0.368	102.	38-137	4.31	26	L596744-08	WG614031
4-Bromofluorobenzene				99.11	67-133				WG614031
Dibromofluoromethane				103.4	72-135				WG614031
Toluene-d8				100.3	90-113				WG614031
Benzene	mg/l	0.0439	0.0386	87.7	35-147	12.6	20	L596744-01	WG614251
Ethylbenzene	mg/l	0.0540	0.0468	108.	39-141	14.2	20	L596744-01	WG614251
Methyl tert-butyl ether	mg/l	0.0408	0.0364	81.5	37-147	11.4	20	L596744-01	WG614251
Toluene	mg/l	0.0496	0.0438	99.2	35-148	12.5	20	L596744-01	WG614251
Total Xylene	mg/l	0.161	0.141	107.	33-151	13.2	20	L596744-01	WG614251
a,a,a-Trifluorotoluene(PID)				102.2	55-122				WG614251
TPH (GC/FID) Low Fraction	mg/l	5.14	5.08	93.4	55-109	1.09	20	L596744-01	WG614251
a,a,a-Trifluorotoluene(FID)				94.66	62-128				WG614251
1,1,1,2-Tetrachloroethane	mg/kg	0.114	0.111	91.1	49-135	2.54	23	L596742-03	WG614033
1,1,1-Trichloroethane	mg/kg	0.124	0.126	98.8	43-142	2.03	24	L596742-03	WG614033
1,1,2,2-Tetrachloroethane	mg/kg	0.104	0.0999	83.0	42-147	3.73	25	L596742-03	WG614033
1,1,2-Trichloroethane	mg/kg	0.111	0.108	88.4	51-134	2.61	21	L596742-03	WG614033
1,1,2-Trichlorotrifluoroethane	mg/kg	0.103	0.107	82.7	25-156	3.38	29	L596742-03	WG614033
1,1-Dichloroethane	mg/kg	0.106	0.103	84.5	50-131	2.89	21	L596742-03	WG614033
1,1-Dichloroethene	mg/kg	0.0959	0.102	76.7	29-145	5.87	28	L596742-03	WG614033
1,1-Dichloropropene	mg/kg	0.105	0.107	84.3	40-136	1.44	24	L596742-03	WG614033
1,2,3-Trichlorobenzene	mg/kg	0.0964	0.0823	77.1	13-142	15.8	33	L596742-03	WG614033
1,2,3-Trichloropropane	mg/kg	0.125	0.117	99.6	41-149	5.87	28	L596742-03	WG614033
1,2,3-Trimethylbenzene	mg/kg	0.110	0.101	87.7	33-146	8.15	27	L596742-03	WG614033
1,2,4-Trichlorobenzene	mg/kg	0.102	0.0855	81.5	12-140	17.5	32	L596742-03	WG614033
1,2,4-Trimethylbenzene	mg/kg	0.109	0.106	87.3	29-143	3.28	30	L596742-03	WG614033
1,2-Dibromo-3-Chloropropane	mg/kg	0.131	0.121	105.	29-151	8.46	31	L596742-03	WG614033
1,2-Dibromoethane	mg/kg	0.115	0.108	91.7	48-133	6.38	22	L596742-03	WG614033
1,2-Dichlorobenzene	mg/kg	0.110	0.103	88.1	37-136	7.12	25	L596742-03	WG614033
1,2-Dichloroethane	mg/kg	0.114	0.117	91.3	49-131	2.88	20	L596742-03	WG614033
1,2-Dichloropropane	mg/kg	0.105	0.0992	83.8	50-132	5.46	21	L596742-03	WG614033
1,3,5-Trimethylbenzene	mg/kg	0.113	0.108	90.0	29-144	3.78	30	L596742-03	WG614033
1,3-Dichlorobenzene	mg/kg	0.107	0.103	85.8	26-140	4.27	28	L596742-03	WG614033
1,3-Dichloropropane	mg/kg	0.111	0.103	88.8	50-126	7.31	22	L596742-03	WG614033
1,4-Dichlorobenzene	mg/kg	0.105	0.0985	83.9	34-132	6.29	26	L596742-03	WG614033
2,2-Dichloropropane	mg/kg	0.117	0.118	93.6	35-148	0.510	26	L596742-03	WG614033
2-Butanone (MEK)	mg/kg	0.708	0.693	113.	40-149	2.14	27	L596742-03	WG614033
2-Chloroethyl vinyl ether	mg/kg	0.465	0.396	74.4	10-173	16.0	33	L596742-03	WG614033
2-Chlorotoluene	mg/kg	0.109	0.108	87.6	34-136	0.960	28	L596742-03	WG614033
4-Chlorotoluene	mg/kg	0.109	0.106	87.4	31-137	2.87	27	L596742-03	WG614033
4-Methyl-2-pentanone (MIBK)	mg/kg	0.642	0.600	103.	37-153	6.83	27	L596742-03	WG614033
Acetone	mg/kg	0.826	0.805	131.	10-177	2.61	28	L596742-03	WG614033
Acrylonitrile	mg/kg	0.565	0.531	90.3	33-159	6.08	26	L596742-03	WG614033

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Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	**mg/kg**	**0.0997**	**0.100**	**79.8**	**44-131**	**0.710**	**21**	**L596742-03**	**WG614033**
Bromobenzene	mg/kg	0.110	0.105	87.8	36-132	4.78	26	L596742-03	WG614033
Bromodichloromethane	mg/kg	0.116	0.116	92.5	48-134	0.0200	20	L596742-03	WG614033
Bromoform	**mg/kg**	**0.121**	**0.118**	**96.8**	**34-141**	**2.58**	**24**	**L596742-03**	**WG614033**
Bromomethane	mg/kg	0.0941	0.0925	75.3	19-173	1.71	25	L596742-03	WG614033
Carbon tetrachloride	mg/kg	0.117	0.120	92.1	36-140	2.80	26	L596742-03	WG614033
Chlorobenzene	**mg/kg**	**0.109**	**0.103**	**87.5**	**42-133**	**6.44**	**24**	**L596742-03**	**WG614033**
Chlorodibromomethane	mg/kg	0.119	0.116	94.8	45-135	1.90	23	L596742-03	WG614033
Chloroethane	mg/kg	0.0934	0.0954	74.8	16-178	2.07	25	L596742-03	WG614033
Chloroform	**mg/kg**	**0.114**	**0.111**	**91.1**	**52-130**	**2.35**	**21**	**L596742-03**	**WG614033**
Chloromethane	mg/kg	0.0903	0.0891	72.3	28-147	1.41	23	L596742-03	WG614033
cis-1,2-Dichloroethene	mg/kg	0.0982	0.0996	78.6	52-128	1.43	21	L596742-03	WG614033
cis-1,3-Dichloropropene	**mg/kg**	**0.109**	**0.103**	**86.9**	**46-131**	**5.45**	**21**	**L596742-03**	**WG614033**
Di-isopropyl ether	mg/kg	0.100	0.101	80.4	46-134	0.490	20	L596742-03	WG614033
Dibromomethane	mg/kg	0.109	0.108	87.2	51-133	1.15	21	L596742-03	WG614033
Dichlorodifluoromethane	**mg/kg**	**0.104**	**0.105**	**83.0**	**12-179**	**0.810**	**27**	**L596742-03**	**WG614033**
Ethylbenzene	mg/kg	0.113	0.109	90.5	38-139	4.04	27	L596742-03	WG614033
Hexachloro-1,3-butadiene	mg/kg	0.108	0.105	86.3	10-147	2.72	37	L596742-03	WG614033
Isopropylbenzene	**mg/kg**	**0.120**	**0.118**	**96.0**	**34-137**	**1.42**	**29**	**L596742-03**	**WG614033**
Methyl tert-butyl ether	mg/kg	0.104	0.105	83.2	45-134	0.630	22	L596742-03	WG614033
Methylene Chloride	mg/kg	0.0795	0.0812	63.6	41-133	2.13	28	L596742-03	WG614033
n-Butylbenzene	**mg/kg**	**0.109**	**0.102**	**87.4**	**19-149**	**6.73**	**32**	**L596742-03**	**WG614033**
n-Propylbenzene	mg/kg	0.115	0.111	91.5	27-142	3.73	29	L596742-03	WG614033
Naphthalene	mg/kg	0.106	0.0935	84.4	19-146	12.1	30	L596742-03	WG614033
p-Isopropyltoluene	**mg/kg**	**0.114**	**0.109**	**91.1**	**21-150**	**4.32**	**31**	**L596742-03**	**WG614033**
sec-Butylbenzene	mg/kg	0.114	0.112	91.2	25-148	2.15	31	L596742-03	WG614033
Styrene	mg/kg	0.109	0.105	87.4	30-156	4.28	26	L596742-03	WG614033
tert-Butylbenzene	**mg/kg**	**0.121**	**0.118**	**96.8**	**32-146**	**2.83**	**30**	**L596742-03**	**WG614033**
Tetrachloroethene	mg/kg	0.109	0.109	86.9	35-139	0.310	27	L596742-03	WG614033
Toluene	mg/kg	0.107	0.101	85.7	43-127	6.34	21	L596742-03	WG614033
trans-1,2-Dichloroethene	**mg/kg**	**0.0898**	**0.0920**	**71.9**	**41-132**	**2.37**	**23**	**L596742-03**	**WG614033**
trans-1,3-Dichloropropene	mg/kg	0.114	0.108	89.4	43-129	5.29	23	L596742-03	WG614033
Trichloroethene	mg/kg	0.116	0.110	92.5	42-136	4.82	23	L596742-03	WG614033
Trichlorofluoromethane	**mg/kg**	**0.123**	**0.123**	**98.7**	**20-178**	**0.0500**	**30**	**L596742-03**	**WG614033**
Vinyl chloride	mg/kg	0.0908	0.0936	72.6	30-157	3.05	24	L596742-03	WG614033
Xylenes, Total	mg/kg	0.329	0.320	87.8	38-137	2.72	26	L596742-03	WG614033
4-Bromofluorobenzene				**105.0**	**67-133**				**WG614033**
Dibromofluoromethane				101.4	72-135				WG614033
Toluene-d8				106.7	90-113				WG614033
1,1,1,2-Tetrachloroethane	mg/kg	0.0982	0.113	78.6	49-135	14.4	23	L596692-02	WG614030
1,1,1-Trichloroethane	mg/kg	0.0931	0.108	74.5	43-142	14.9	24	L596692-02	WG614030
1,1,2,2-Tetrachloroethane	**mg/kg**	**0.0252**	**0.0825**	**20.2***	**42-147**	**106.***	**25**	**L596692-02**	**WG614030**
1,1,2-Trichloroethane	mg/kg	0.103	0.115	82.0	51-134	11.9	21	L596692-02	WG614030
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0859	0.105	68.7	25-156	19.8	29	L596692-02	WG614030
1,1-Dichloroethane	**mg/kg**	**0.0956**	**0.109**	**76.5**	**50-131**	**12.8**	**21**	**L596692-02**	**WG614030**
1,1-Dichloroethene	mg/kg	0.0912	0.105	73.0	29-145	14.3	28	L596692-02	WG614030
1,1-Dichloropropene	mg/kg	0.0903	0.107	72.2	40-136	17.4	24	L596692-02	WG614030
1,2,3-Trichlorobenzene	**mg/kg**	**0.0790**	**0.114**	**63.2**	**13-142**	**36.1***	**33**	**L596692-02**	**WG614030**
1,2,3-Trichloropropane	mg/kg	0.0983	0.118	78.6	41-149	18.4	28	L596692-02	WG614030
1,2,3-Trimethylbenzene	mg/kg	0.0932	0.121	74.5	33-146	26.4	27	L596692-02	WG614030
1,2,4-Trichlorobenzene	**mg/kg**	**0.0756**	**0.115**	**60.5**	**12-140**	**41.2***	**32**	**L596692-02**	**WG614030**
1,2,4-Trimethylbenzene	mg/kg	0.0824	0.105	65.9	29-143	24.2	30	L596692-02	WG614030
1,2-Dibromo-3-Chloropropane	mg/kg	0.106	0.133	85.0	29-151	22.2	31	L596692-02	WG614030
1,2-Dibromoethane	**mg/kg**	**0.102**	**0.115**	**81.6**	**48-133**	**11.7**	**22**	**L596692-02**	**WG614030**
1,2-Dichlorobenzene	mg/kg	0.0944	0.122	75.5	37-136	25.2*	25	L596692-02	WG614030
1,2-Dichloroethane	mg/kg	0.0944	0.109	75.5	49-131	14.6	20	L596692-02	WG614030
1,2-Dichloropropane	**mg/kg**	**0.0981**	**0.114**	**78.5**	**50-132**	**14.6**	**21**	**L596692-02**	**WG614030**

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Quality Assurance Report
Level II

L596744

October 02, 2012

Matrix Spike Duplicates

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,3,5-Trimethylbenzene	mg/kg	0.0811	0.104	64.9	29-144	24.9	30	L596692-02	WG614030
1,3-Dichlorobenzene	mg/kg	0.0830	0.105	66.4	26-140	23.7	28	L596692-02	WG614030
1,3-Dichloropropane	mg/kg	0.100	0.116	80.1	50-126	14.6	22	L596692-02	WG614030
1,4-Dichlorobenzene	mg/kg	0.0910	0.119	72.8	34-132	26.4*	26	L596692-02	WG614030
2,2-Dichloropropane	mg/kg	0.0948	0.111	75.9	35-148	16.0	26	L596692-02	WG614030
2-Butanone (MEK)	mg/kg	0.517	0.607	82.8	40-149	15.8	27	L596692-02	WG614030
2-Chloroethyl vinyl ether	mg/kg	0.521	0.602	83.4	10-173	14.4	33	L596692-02	WG614030
2-Chlorotoluene	mg/kg	0.0859	0.106	68.7	34-136	21.3	28	L596692-02	WG614030
4-Chlorotoluene	mg/kg	0.0860	0.107	68.8	31-137	21.4	27	L596692-02	WG614030
4-Methyl-2-pentanone (MIBK)	mg/kg	0.527	0.602	84.3	37-153	13.3	27	L596692-02	WG614030
Acetone	mg/kg	0.497	0.581	79.5	10-177	15.7	28	L596692-02	WG614030
Acrylonitrile	mg/kg	0.513	0.593	82.2	33-159	14.4	26	L596692-02	WG614030
Benzene	mg/kg	0.0939	0.108	75.1	44-131	14.1	21	L596692-02	WG614030
Bromobenzene	mg/kg	0.0890	0.107	71.2	36-132	18.2	26	L596692-02	WG614030
Bromodichloromethane	mg/kg	0.0989	0.112	79.1	48-134	12.3	20	L596692-02	WG614030
Bromoform	mg/kg	0.105	0.121	83.6	34-141	14.4	24	L596692-02	WG614030
Bromomethane	mg/kg	0.109	0.125	87.0	19-173	13.7	25	L596692-02	WG614030
Carbon tetrachloride	mg/kg	0.0886	0.106	70.9	36-140	18.1	26	L596692-02	WG614030
Chlorobenzene	mg/kg	0.0935	0.112	74.8	42-133	17.6	24	L596692-02	WG614030
Chlorodibromomethane	mg/kg	0.103	0.118	82.6	45-135	13.1	23	L596692-02	WG614030
Chloroethane	mg/kg	0.0972	0.112	77.7	16-178	14.4	25	L596692-02	WG614030
Chloroform	mg/kg	0.0951	0.108	76.1	52-130	13.1	21	L596692-02	WG614030
Chloromethane	mg/kg	0.0750	0.0860	60.0	28-147	13.7	23	L596692-02	WG614030
cis-1,2-Dichloroethene	mg/kg	0.0962	0.110	76.9	52-128	13.3	21	L596692-02	WG614030
cis-1,3-Dichloropropene	mg/kg	0.101	0.114	80.7	46-131	12.1	21	L596692-02	WG614030
Di-isopropyl ether	mg/kg	0.0973	0.110	77.8	46-134	12.7	20	L596692-02	WG614030
Dibromomethane	mg/kg	0.101	0.113	80.7	51-133	11.3	21	L596692-02	WG614030
Dichlorodifluoromethane	mg/kg	0.0927	0.110	74.2	12-179	17.2	27	L596692-02	WG614030
Ethylbenzene	mg/kg	0.0924	0.112	73.9	38-139	18.9	27	L596692-02	WG614030
Hexachloro-1,3-butadiene	mg/kg	0.0606	0.107	48.5	10-147	55.3*	37	L596692-02	WG614030
Isopropylbenzene	mg/kg	0.0861	0.109	68.9	34-137	23.6	29	L596692-02	WG614030
Methyl tert-butyl ether	mg/kg	0.0960	0.110	76.8	45-134	13.2	22	L596692-02	WG614030
Methylene Chloride	mg/kg	0.0916	0.103	73.3	41-133	11.4	28	L596692-02	WG614030
n-Butylbenzene	mg/kg	0.0789	0.119	63.1	19-149	40.6*	32	L596692-02	WG614030
n-Propylbenzene	mg/kg	0.0832	0.108	66.6	27-142	25.6	29	L596692-02	WG614030
Naphthalene	mg/kg	0.0939	0.124	75.1	19-146	27.9	30	L596692-02	WG614030
p-Isopropyltoluene	mg/kg	0.0755	0.104	60.4	21-150	31.6*	31	L596692-02	WG614030
sec-Butylbenzene	mg/kg	0.0754	0.103	60.4	25-148	30.5	31	L596692-02	WG614030
Styrene	mg/kg	0.0940	0.112	75.2	30-156	17.6	26	L596692-02	WG614030
tert-Butylbenzene	mg/kg	0.0804	0.105	64.3	32-146	26.7	30	L596692-02	WG614030
Tetrachloroethene	mg/kg	0.0918	0.116	73.5	35-139	22.9	27	L596692-02	WG614030
Toluene	mg/kg	0.0911	0.107	72.9	43-127	15.6	21	L596692-02	WG614030
trans-1,2-Dichloroethene	mg/kg	0.0951	0.109	76.1	41-132	13.6	23	L596692-02	WG614030
trans-1,3-Dichloropropene	mg/kg	0.100	0.116	80.4	43-129	14.4	23	L596692-02	WG614030
Trichloroethene	mg/kg	0.154	0.141	123.	42-136	8.98	23	L596692-02	WG614030
Trichlorofluoromethane	mg/kg	0.0947	0.111	75.7	20-178	15.5	30	L596692-02	WG614030
Vinyl chloride	mg/kg	0.0993	0.115	79.5	30-157	14.5	24	L596692-02	WG614030
Xylenes, Total	mg/kg	0.270	0.329	71.9	38-137	20.0	26	L596692-02	WG614030
4-Bromofluorobenzene				86.90	67-133				WG614030
Dibromofluoromethane				89.91	72-135				WG614030
Toluene-d8				94.67	90-113				WG614030
Benzene	mg/kg	0.226	0.227	90.5	32-137	0.160	39	L596547-02	WG614452
Ethylbenzene	mg/kg	0.235	0.239	93.8	10-150	1.91	44	L596547-02	WG614452
Methyl tert-butyl ether	mg/kg	0.233	0.227	93.2	24-151	2.79	37	L596547-02	WG614452
Toluene	mg/kg	0.238	0.237	95.2	20-142	0.360	42	L596547-02	WG614452
Total Xylene	mg/kg	0.668	0.690	89.0	16-141	3.33	46	L596547-02	WG614452
a,a,a-Trifluorotoluene(PID)				105.3	54-144				WG614452

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

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Karen O'Connor
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Lincoln, NE 68508

Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	**mg/kg**	**24.2**	**23.8**	**88.0**	**55-109**	**1.52**	**20**	**L596547-02**	**WG614452**
a,a,a-Trifluorotoluene(FID)				103.6	59-128				WG614452
1,1,1,2-Tetrachloroethane	**mg/kg**	**0.116**	**0.137**	**93.0**	**49-135**	**16.2**	**23**	**L596940-05**	**WG614631**
1,1,1-Trichloroethane	mg/kg	0.133	0.153	106.	43-142	13.9	24	L596940-05	WG614631
1,1,2,2-Tetrachloroethane	mg/kg	0.103	0.126	82.7	42-147	19.8	25	L596940-05	WG614631
1,1,2-Trichloroethane	**mg/kg**	**0.113**	**0.133**	**90.8**	**51-134**	**16.2**	**21**	**L596940-05**	**WG614631**
1,1,2-Trichlorotrifluoroethane	mg/kg	0.124	0.142	99.4	25-156	13.5	29	L596940-05	WG614631
1,1-Dichloroethane	mg/kg	0.127	0.148	101.	50-131	15.3	21	L596940-05	WG614631
1,1-Dichloroethene	**mg/kg**	**0.132**	**0.156**	**106.**	**29-145**	**16.5**	**28**	**L596940-05**	**WG614631**
1,1-Dichloropropene	mg/kg	0.131	0.154	105.	40-136	15.6	24	L596940-05	WG614631
1,2,3-Trichlorobenzene	mg/kg	0.0922	0.106	73.8	13-142	13.9	33	L596940-05	WG614631
1,2,3-Trichloropropane	**mg/kg**	**0.113**	**0.129**	**90.7**	**41-149**	**13.3**	**28**	**L596940-05**	**WG614631**
1,2,3-Trimethylbenzene	mg/kg	0.111	0.127	88.7	33-146	13.6	27	L596940-05	WG614631
1,2,4-Trichlorobenzene	mg/kg	0.0885	0.103	70.8	12-140	15.2	32	L596940-05	WG614631
1,2,4-Trimethylbenzene	**mg/kg**	**0.115**	**0.135**	**91.7**	**29-143**	**16.0**	**30**	**L596940-05**	**WG614631**
1,2-Dibromo-3-Chloropropane	mg/kg	0.105	0.118	83.8	29-151	11.6	31	L596940-05	WG614631
1,2-Dibromoethane	mg/kg	0.115	0.135	92.0	48-133	15.9	22	L596940-05	WG614631
1,2-Dichlorobenzene	**mg/kg**	**0.110**	**0.125**	**87.6**	**37-136**	**13.0**	**25**	**L596940-05**	**WG614631**
1,2-Dichloroethane	mg/kg	0.120	0.143	96.2	49-131	17.6	20	L596940-05	WG614631
1,2-Dichloropropane	mg/kg	0.118	0.141	94.3	50-132	17.6	21	L596940-05	WG614631
1,3,5-Trimethylbenzene	**mg/kg**	**0.116**	**0.136**	**92.5**	**29-144**	**16.2**	**30**	**L596940-05**	**WG614631**
1,3-Dichlorobenzene	mg/kg	0.113	0.131	90.7	26-140	14.5	28	L596940-05	WG614631
1,3-Dichloropropane	mg/kg	0.116	0.135	93.0	50-126	15.2	22	L596940-05	WG614631
1,4-Dichlorobenzene	**mg/kg**	**0.104**	**0.118**	**83.5**	**34-132**	**12.1**	**26**	**L596940-05**	**WG614631**
2,2-Dichloropropane	mg/kg	0.133	0.148	106.	35-148	11.0	26	L596940-05	WG614631
2-Butanone (MEK)	mg/kg	0.438	0.505	70.0	40-149	14.4	27	L596940-05	WG614631
2-Chloroethyl vinyl ether	**mg/kg**	**0.562**	**0.669**	**89.9**	**10-173**	**17.4**	**33**	**L596940-05**	**WG614631**
2-Chlorotoluene	mg/kg	0.119	0.139	95.6	34-136	15.0	28	L596940-05	WG614631
4-Chlorotoluene	mg/kg	0.112	0.131	89.9	31-137	15.6	27	L596940-05	WG614631
4-Methyl-2-pentanone (MIBK)	**mg/kg**	**0.532**	**0.631**	**85.2**	**37-153**	**16.9**	**27**	**L596940-05**	**WG614631**
Acetone	mg/kg	0.396	0.472	63.4	10-177	17.5	28	L596940-05	WG614631
Acrylonitrile	mg/kg	0.549	0.644	87.8	33-159	15.9	26	L596940-05	WG614631
Benzene	**mg/kg**	**0.126**	**0.150**	**101.**	**44-131**	**17.3**	**21**	**L596940-05**	**WG614631**
Bromobenzene	mg/kg	0.110	0.129	88.1	36-132	16.1	26	L596940-05	WG614631
Bromodichloromethane	mg/kg	0.110	0.132	88.1	48-134	17.9	20	L596940-05	WG614631
Bromoform	**mg/kg**	**0.104**	**0.122**	**83.2**	**34-141**	**15.6**	**24**	**L596940-05**	**WG614631**
Bromomethane	mg/kg	0.151	0.177	120.	19-173	15.9	25	L596940-05	WG614631
Carbon tetrachloride	mg/kg	0.128	0.153	102.	36-140	17.8	26	L596940-05	WG614631
Chlorobenzene	**mg/kg**	**0.116**	**0.137**	**93.0**	**42-133**	**16.8**	**24**	**L596940-05**	**WG614631**
Chlorodibromomethane	mg/kg	0.112	0.131	89.2	45-135	16.3	23	L596940-05	WG614631
Chloroethane	mg/kg	0.155	0.183	124.	16-178	16.8	25	L596940-05	WG614631
Chloroform	**mg/kg**	**0.121**	**0.143**	**96.9**	**52-130**	**16.3**	**21**	**L596940-05**	**WG614631**
Chloromethane	mg/kg	0.136	0.159	109.	28-147	15.5	23	L596940-05	WG614631
cis-1,2-Dichloroethene	mg/kg	0.124	0.146	99.3	52-128	16.5	21	L596940-05	WG614631
cis-1,3-Dichloropropene	**mg/kg**	**0.114**	**0.136**	**91.1**	**46-131**	**18.0**	**21**	**L596940-05**	**WG614631**
Di-isopropyl ether	mg/kg	0.117	0.139	94.0	46-134	16.9	20	L596940-05	WG614631
Dibromomethane	mg/kg	0.112	0.133	89.6	51-133	17.0	21	L596940-05	WG614631
Dichlorodifluoromethane	**mg/kg**	**0.141**	**0.165**	**113.**	**12-179**	**15.6**	**27**	**L596940-05**	**WG614631**
Ethylbenzene	mg/kg	0.121	0.142	97.1	38-139	15.7	27	L596940-05	WG614631
Hexachloro-1,3-butadiene	mg/kg	0.0912	0.108	72.9	10-147	16.7	37	L596940-05	WG614631
Isopropylbenzene	mg/kg	0.118	0.138	94.0	34-137	16.1	29	L596940-05	WG614631
Methyl tert-butyl ether	mg/kg	0.114	0.135	91.0	45-134	17.1	22	L596940-05	WG614631
Methylene Chloride	mg/kg	0.120	0.142	95.7	41-133	17.2	28	L596940-05	WG614631
n-Butylbenzene	**mg/kg**	**0.104**	**0.120**	**82.8**	**19-149**	**14.6**	**32**	**L596940-05**	**WG614631**
n-Propylbenzene	mg/kg	0.118	0.138	94.6	27-142	15.6	29	L596940-05	WG614631
Naphthalene	mg/kg	0.0948	0.108	75.8	19-146	12.9	30	L596940-05	WG614631
p-Isopropyltoluene	**mg/kg**	**0.114**	**0.132**	**90.9**	**21-150**	**14.9**	**31**	**L596940-05**	**WG614631**

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

Olsson Associates
Karen O'Connor
1111 Lincoln Mall, Ste 111

Lincoln, NE 68508

Quality Assurance Report
Level II

L596744

October 02, 2012

Analyte	Units	MSD	Ref	Matrix Spike Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
sec-Butylbenzene	**mg/kg**	**0.115**	**0.134**	**91.9**	**25-148**	**15.5**	**31**	**L596940-05**	**WG614631**
Styrene	mg/kg	0.117	0.138	93.9	30-156	16.0	26	L596940-05	WG614631
tert-Butylbenzene	mg/kg	0.120	0.140	96.0	32-146	15.2	30	L596940-05	WG614631
Tetrachloroethene	**mg/kg**	**0.129**	**0.149**	**103.**	**35-139**	**14.1**	**27**	**L596940-05**	**WG614631**
Toluene	mg/kg	0.117	0.138	94.0	43-127	16.2	21	L596940-05	WG614631
trans-1,2-Dichloroethene	mg/kg	0.127	0.150	101.	41-132	17.2	23	L596940-05	WG614631
trans-1,3-Dichloropropene	**mg/kg**	**0.113**	**0.136**	**90.7**	**43-129**	**17.9**	**23**	**L596940-05**	**WG614631**
Trichloroethene	mg/kg	0.137	0.157	110.	42-136	13.3	23	L596940-05	WG614631
Trichlorofluoromethane	mg/kg	0.153	0.178	122.	20-178	15.2	30	L596940-05	WG614631
Vinyl chloride	**mg/kg**	**0.141**	**0.165**	**113.**	**30-157**	**15.4**	**24**	**L596940-05**	**WG614631**
Xylenes, Total	mg/kg	0.360	0.419	96.0	38-137	15.1	26	L596940-05	WG614631
4-Bromofluorobenzene				102.5	67-133				WG614631
Dibromofluoromethane				**102.0**	**72-135**				**WG614631**
Toluene-d8				99.60	90-113				WG614631
Diesel	**mg/kg**	**24.3**	**20.0**	**81.1**	**50-150**	**19.6**	**20**	**L596742-01**	**WG614225**
Motor Oil	mg/kg	23.5	18.4	78.4	50-150	24.2	25	L596742-01	WG614225
o-Terphenyl				69.34	50-150				WG614225
#6 Fuel Oil	mg/kg	0	0	0*	-	0	25		WG615640
Diesel	mg/kg	20.1	21.8	67.1	50-150	7.79	20	L597180-02	WG615640
Hydraulic Fluid	**mg/kg**	**0**	**0**	**0***	**-**	**0**	**25**		**WG615640**
Kerosene	mg/kg	0	0	0*	-	0	25		WG615640
Mineral Spirits	mg/kg	0	0	0*	-	0	25		WG615640
Motor Oil	**mg/kg**	**42.7**	**41.6**	**39.1***	**50-150**	**2.63**	**25**	**L597180-02**	**WG615640**
o-Terphenyl				57.48	50-150				WG615640

Batch number /Run number / Sample number cross reference

WG614071: R2360677: L596744-01 02 03 04 05
WG614034: R2361074: L596744-06 07 08 09 10 11 12 13
WG614031: R2361394: L596744-08 09 10 11
WG614251: R2362834: L596744-01 02 03 04 05
WG614033: R2362854: L596744-12 13 14 15
WG614030: R2362895: L596744-06
WG614452: R2363834: L596744-14 15
WG614631: R2364713: L596744-07
WG613784: R2366513: L596744-01 02 03
WG614470: R2368854: L596744-04 05
WG614225: R2370518: L596744-06 07 08 09 10 11 12 13 14
WG615640: R2372054: L596744-15

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L596744

October 02, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Olsson Associates

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Analysis/Container/Preservative

Chain of Custody

D101

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Report to: Karen O'Connor

Email: koconnor@oaconsulting.com

Project Description: 21st and N Street Phase II

City/State Collected: Lincoln, NE

Phone: (402) 474-6311
FAX: (402) 474-5160

Client Project #: 012-1112

Lab Project #: OLSSONLN-0121112

Collected by (print): Ryan Doty

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Account: OLSSONLN (lab use only)
Template/Prelogin: T81710/P405752
Cooler #: 9-12 mw
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	OA1 40mlAmb-HCl	OA1, V8260 4ozClr-NoPres	OA2 100ml Amb-NoPres	OA2 4ozClr-NoPres	V8260 40mlAmb-HCl			Remarks/Contaminant	Sample # (lab only)
TMW-1	Grab	GW	—	9/19/12	1330	6	X		X		X				L596744 01
TMW-2	Grab	GW	—	9/19/12	1200	6	X		X		X				02
TMW-3	Grab	GW	—	9/19/12	1415	6	X		X		X				03
TMW-4	Grab	GW	—	9/20/12	1120	6	X		X		X				04
D-1	Grab	GW	—	9/19/12	1205	6	X		X		X				05
S-1 0-2	Grab	SS	0-2	9/19/12	1020	2		X		X					06
S-1 18-19	Grab	SS	18-19	9/19/12	1005	2		X		X					07
S-2 0-4	Grab	SS	0-4	9/19/12	1040	2		X		X					08
S-2 17.5-19	Grab	SS	17.5-19	9/19/12	1110	2		X		X					09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

5413 4727 6371

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition:	(lab use only)
	9/20/12	1130				MS OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 C Bottles Received: 50+TB	COC Seal Intact: ✓ Y ___ N ___ NA	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/21/12 Time: 0900	pH Checked:	NCF:

Olsson Associates

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Lincoln,NE 68508

Billing information:

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Chain of Custody
Page 2 of 2

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Report to: Karen O'Connor

Email: koconnor@oaconsulting.com

Project Description: 21st and N Street Phase II

City/State Collected: Lincoln, NE

Phone: (402) 474-6311
FAX: (402) 474-5160

Client Project #: 012-1112

Lab Project #: OLSSONLN-0121112

Collected by (print): Ryan Doty

Site/Facility ID#:

P.O.#:

Collected by (signature): Ryan Doty

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Apitnum: OLSSONLN (lab use only)
Template/Prelogin: T81710 P405752
Cooler #: NE 9/12
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	OA1 40mlAmb-HCl	OA1, V8260 4ozClr-NoPres	OA2 100mL Amb-NoPres	OA2 4ozClr-NoPres	V8260 40mlAmb-HCl			Remarks/Contaminant	Sample # (lab only)
S-3 6-8	Grab	SS	6-8	9/19/12	1520	2		X		X					L596744-10
S-4 12-14	Grab	SS	12-14	9/19/12	1552	2		X		X					-11
S-5 0-4	Grab	SS	0-4	9/20/12	0905	2		X		X					-12
S-6 0-4	Grab	SS	0-4	9/20/12	0945	2		X		X					-13
S-7 8-10	Grab	SS	8-10	9/20/12	1040	2		X		X					-14
D-2	Grab	SS	—	9/19/12	1525	2		X		X					-15
		SS				2		X		X					
		SS				2		X		X					
		SS				2		X		X					

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition:	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 Bottles Received: 30+TB	COC Seal Intact: Y ___ N ___ NA	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/21/12 Time: 0900	pH Checked: ___	NCF:

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Est. 1970

Quality Control Summary
SDG: L604511

For: Olsson Associates
Project: 21st and N Street
November 07, 2012

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Samples L604511-01 and 02 were analyzed in analytical batch WG621638. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Samples L604511-03 and 04 were analyzed in analytical batch WG621720. The laboratory control sample associated with these samples was within the laboratory control limits for all compounds.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG621638 matrix spike/matrix spike duplicate analysis was performed on sample L604450-01. The matrix spike recoveries were within laboratory control limits for all target analytes. The relative percent difference exceeded laboratory limits for 2-Chloroethyl vinyl ether and Naphthalene.

For analytical batch WG621720 matrix spike/matrix spike duplicate analysis was performed on sample L604468-06. The matrix spike recoveries were below laboratory control limits for 2-Chloroethyl vinyl ether. The spike recoveries for the remaining target compounds were within limits. The relative percent difference exceeded laboratory limits for 2-Chloroethyl vinyl ether.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

November 07, 2012

ESC Sample # : L604511-01

Date Received : November 06, 2012
Description : 21st and N Street

Site ID :

Sample ID : TMW-5

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 11/05/12 17:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/06/12	1
Acrolein	BDL	0.050	mg/l	8260B	11/06/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/06/12	1
Benzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromoform	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/06/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/06/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/06/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/06/12	1
Chloroform	BDL	0.0050	mg/l	8260B	11/06/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/06/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/06/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/06/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/06/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichloroethane	0.0075	0.0010	mg/l	8260B	11/06/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/06/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/06/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/06/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

November 07, 2012

ESC Sample # : L604511-02

Date Received : November 06, 2012
Description : 21st and N Street

Site ID :

Sample ID : TMW-6

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 11/05/12 16:23

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/06/12	1
Acrolein	BDL	0.050	mg/l	8260B	11/06/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/06/12	1
Benzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromoform	BDL	0.0010	mg/l	8260B	11/06/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/06/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/06/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/06/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/06/12	1
Chloroform	BDL	0.0050	mg/l	8260B	11/06/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/06/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/06/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/06/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/06/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/06/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichloroethane	0.036	0.0010	mg/l	8260B	11/06/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/06/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/06/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/06/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/06/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/06/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/06/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

November 07, 2012

ESC Sample # : L604511-03

Date Received : November 06, 2012
Description : 21st and N Street

Site ID :

Sample ID : TMW-7

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 11/05/12 16:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/07/12	1
Acrolein	BDL	0.050	mg/l	8260B	11/07/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/07/12	1
Benzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromoform	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/07/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/07/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/07/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/07/12	1
Chloroform	BDL	0.0050	mg/l	8260B	11/07/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/07/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/07/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/07/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/07/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/07/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/07/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karen O'Connor
Olsson Associates
1111 Lincoln Mall, Ste 111
Lincoln, NE 68508

November 07, 2012

ESC Sample # : L604511-04

Date Received : November 06, 2012
Description : 21st and N Street

Site ID :

Sample ID : D-3

Project # : 012-1112

Collected By : Ryan Doty
Collection Date : 11/05/12 16:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	11/07/12	1
Acrolein	BDL	0.050	mg/l	8260B	11/07/12	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/07/12	1
Benzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromoform	BDL	0.0010	mg/l	8260B	11/07/12	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/07/12	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/07/12	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/07/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/07/12	1
Chloroform	BDL	0.0050	mg/l	8260B	11/07/12	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/07/12	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/07/12	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/07/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/07/12	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/07/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/07/12	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/07/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/07/12	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/07/12	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/07/12	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Quality Control Summary
SDG: L604511
Olsson Associates

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	012-1112	Matrix:	Water - mg/L
Project:	21st and N Street	EPA ID:	TN00003
Collection Date:	11/5/2012	**Analytic Batch:**	**WG621638**
Analysis Date:	11/6/2012	Analyst:	559
Instrument ID:	VOCMS21		
Sample Numbers:	L604511-01, -02		

Method Blank

Analyte	CAS	PQL	Qualifiers
Dichlorodifluoromethane	75-71-8	<0.0050	
Chloromethane	74-87-3	<0.0025	
Vinyl chloride	75-01-4	<0.0010	
Bromomethane	74-83-9	<0.0050	
Chloroethane	75-00-3	<0.0050	
Trichlorofluoromethane	75-69-4	<0.0050	
Acrolein	107-02-8	<0.0250	
1,1-Dichloroethene	75-35-4	<0.0010	
1,1,2-Trichlorotrifluoroethane	76-13-1	<0.0010	
Acetone	67-64-1	<0.0500	
Methylene Chloride	75-09-2	<0.0050	
Acrylonitrile	107-13-1	<0.0100	
trans-1,2-Dichloroethene	156-60-5	<0.0010	
Methyl tert-butyl ether	1634-04-4	<0.0010	
1,1-Dichloroethane	75-34-3	<0.0010	
Di-isopropyl ether	108-20-3	<0.0010	
2,2-Dichloropropane	594-20-7	<0.0010	
cis-1,2-Dichloroethene	156-59-2	<0.0010	
2-Butanone (MEK)	78-93-3	<0.0100	
Chloroform	67-66-3	<0.0050	
1,1,1-Trichloroethane	71-55-6	<0.0010	
Carbon tetrachloride	56-23-5	<0.0010	
1,1-Dichloropropene	563-58-6	<0.0010	
Benzene	71-43-2	<0.0010	
1,2-Dichloroethane	107-06-2	<0.0010	
Trichloroethene	79-01-6	<0.0010	
1,2-Dichloropropane	78-87-5	<0.0010	
Dibromomethane	74-95-3	<0.0010	
Bromodichloromethane	75-27-4	<0.0010	
2-Chloroethyl vinyl ether	110-75-8	<0.0500	
cis-1,3-Dichloropropene	10061-01-5	<0.0010	
4-Methyl-2-pentanone (MIBK)	108-10-1	<0.0100	
Toluene	108-88-3	<0.0050	
trans-1,3-Dichloropropene	10061-02-6	<0.0010	
1,1,2-Trichloroethane	79-00-5	<0.0010	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	012-1112	Matrix:	Water - mg/L
Project:	21st and N Street	EPA ID:	TN00003
Collection Date:	11/5/2012	**Analytic Batch:**	**WG621720**
Analysis Date:	11/7/2012	Analyst:	505
Instrument ID:	VOCMS23		
Sample Numbers:	L604511-03, -04		

Method Blank

Analyte	CAS	PQL	Qualifiers
Dichlorodifluoromethane	75-71-8	<0.0050	
Chloromethane	74-87-3	<0.0025	
Vinyl chloride	75-01-4	<0.0010	
Bromomethane	74-83-9	<0.0050	
Chloroethane	75-00-3	<0.0050	
Trichlorofluoromethane	75-69-4	<0.0050	
Acrolein	107-02-8	<0.0250	
1,1-Dichloroethene	75-35-4	<0.0010	
1,1,2-Trichlorotrifluoroethane	76-13-1	<0.0010	
Acetone	67-64-1	<0.0500	
Methylene Chloride	75-09-2	<0.0050	
Acrylonitrile	107-13-1	<0.0100	
trans-1,2-Dichloroethene	156-60-5	<0.0010	
Methyl tert-butyl ether	1634-04-4	<0.0010	
1,1-Dichloroethane	75-34-3	<0.0010	
Di-isopropyl ether	108-20-3	<0.0010	
2,2-Dichloropropane	594-20-7	<0.0010	
cis-1,2-Dichloroethene	156-59-2	<0.0010	
2-Butanone (MEK)	78-93-3	<0.0100	
Chloroform	67-66-3	<0.0050	
1,1,1-Trichloroethane	71-55-6	<0.0010	
Carbon tetrachloride	56-23-5	<0.0010	
1,1-Dichloropropene	563-58-6	<0.0010	
Benzene	71-43-2	<0.0010	
1,2-Dichloroethane	107-06-2	<0.0010	
Trichloroethene	79-01-6	<0.0010	
1,2-Dichloropropane	78-87-5	<0.0010	
Dibromomethane	74-95-3	<0.0010	
Bromodichloromethane	75-27-4	<0.0010	
2-Chloroethyl vinyl ether	110-75-8	<0.0500	
cis-1,3-Dichloropropene	10061-01-5	<0.0010	
4-Methyl-2-pentanone (MIBK)	108-10-1	<0.0100	
Toluene	108-88-3	<0.0050	
trans-1,3-Dichloropropene	10061-02-6	<0.0010	
1,1,2-Trichloroethane	79-00-5	<0.0010	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/6/2012
Instrument ID: VOCMS21
Sample Numbers: L604511-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621638
Analyst: 559

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0250	0.0292	117	33 - 173	
Chloromethane	0.0250	0.0297	119	50 - 141	
Vinyl chloride	0.0250	0.0296	119	55 - 142	
Bromomethane	0.0250	0.0317	127	42 - 172	
Chloroethane	0.0250	0.0301	120	52 - 164	
Trichlorofluoromethane	0.0250	0.0326	130	53 - 161	
Acrolein	0.125	0.168	134	10 - 181	
1,1-Dichloroethene	0.0250	0.0307	123	54 - 134	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0345	138	53 - 143	
Acetone	0.125	0.153	123	49 - 153	
Methylene Chloride	0.0250	0.0254	101	67 - 122	
Acrylonitrile	0.125	0.171	137	53 - 153	
trans-1,2-Dichloroethene	0.0250	0.0276	110	63 - 127	
Methyl tert-butyl ether	0.0250	0.0297	119	67 - 127	
1,1-Dichloroethane	0.0250	0.0285	114	73 - 123	
Di-isopropyl ether	0.0250	0.0298	119	66 - 129	
2,2-Dichloropropane	0.0250	0.0299	120	63 - 130	
cis-1,2-Dichloroethene	0.0250	0.0277	111	75 - 121	
2-Butanone (MEK)	0.125	0.149	119	58 - 144	
Chloroform	0.0250	0.0289	116	76 - 122	
1,1,1-Trichloroethane	0.0250	0.0299	119	71 - 126	
Carbon tetrachloride	0.0250	0.0303	121	63 - 129	
1,1-Dichloropropene	0.0250	0.0279	111	67 - 127	
Benzene	0.0250	0.0270	108	72 - 119	
1,2-Dichloroethane	0.0250	0.0308	123	69 - 128	
Trichloroethene	0.0250	0.0270	108	69 - 131	
1,2-Dichloropropane	0.0250	0.0267	107	77 - 121	
Dibromomethane	0.0250	0.0308	123	77 - 124	
Bromodichloromethane	0.0250	0.0285	114	75 - 127	
2-Chloroethyl vinyl ether	0.125	0.119	95.4	26 - 172	
cis-1,3-Dichloropropene	0.0250	0.0279	112	74 - 124	
4-Methyl-2-pentanone (MIBK)	0.125	0.157	126	58 - 147	
Toluene	0.0250	0.0264	106	75 - 114	
trans-1,3-Dichloropropene	0.0250	0.0266	106	69 - 124	
1,1,2-Trichloroethane	0.0250	0.0274	110	81 - 121	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	012-1112	Matrix:	Water - mg/L
Project:	21st and N Street	EPA ID:	TN00003
Collection Date:	11/5/2012	**Analytic Batch:**	**WG621638**
Analysis Date:	11/6/2012	Analyst:	559
Instrument ID:	VOCMS21		
Sample Numbers:	L604511-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0250	0.0257	103	33 - 173	
Chloromethane	0.0250	0.0258	103	50 - 141	
Vinyl chloride	0.0250	0.0266	106	55 - 142	
Bromomethane	0.0250	0.0264	105	42 - 172	
Chloroethane	0.0250	0.0281	112	52 - 164	
Trichlorofluoromethane	0.0250	0.0295	118	53 - 161	
Acrolein	0.125	0.144	115	10 - 181	
1,1-Dichloroethene	0.0250	0.0279	111	54 - 134	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0292	117	53 - 143	
Acetone	0.125	0.129	103	49 - 153	
Methylene Chloride	0.0250	0.0224	89.5	67 - 122	
Acrylonitrile	0.125	0.146	117	53 - 153	
trans-1,2-Dichloroethene	0.0250	0.0248	99.1	63 - 127	
Methyl tert-butyl ether	0.0250	0.0262	105	67 - 127	
1,1-Dichloroethane	0.0250	0.0254	102	73 - 123	
Di-isopropyl ether	0.0250	0.0264	106	66 - 129	
2,2-Dichloropropane	0.0250	0.0264	106	63 - 130	
cis-1,2-Dichloroethene	0.0250	0.0245	98.2	75 - 121	
2-Butanone (MEK)	0.125	0.126	101	58 - 144	
Chloroform	0.0250	0.0255	102	76 - 122	
1,1,1-Trichloroethane	0.0250	0.0266	106	71 - 126	
Carbon tetrachloride	0.0250	0.0268	107	63 - 129	
1,1-Dichloropropene	0.0250	0.0247	98.6	67 - 127	
Benzene	0.0250	0.0239	95.6	72 - 119	
1,2-Dichloroethane	0.0250	0.0266	106	69 - 128	
Trichloroethene	0.0250	0.0242	96.6	69 - 131	
1,2-Dichloropropane	0.0250	0.0242	96.9	77 - 121	
Dibromomethane	0.0250	0.0257	103	77 - 124	
Bromodichloromethane	0.0250	0.0252	101	75 - 127	
2-Chloroethyl vinyl ether	0.125	0.107	85.2	26 - 172	
cis-1,3-Dichloropropene	0.0250	0.0254	102	74 - 124	
4-Methyl-2-pentanone (MIBK)	0.125	0.133	107	58 - 147	
Toluene	0.0250	0.0236	94.3	75 - 114	
trans-1,3-Dichloropropene	0.0250	0.0263	105	69 - 124	
1,1,2-Trichloroethane	0.0250	0.0253	101	81 - 121	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/7/2012
Instrument ID: VOCMS23
Sample Numbers: L604511-03, -04

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621720
Analyst: 505

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0250	0.0236	94.2	33 - 173	
Chloromethane	0.0250	0.0268	107	50 - 141	
Vinyl chloride	0.0250	0.0258	103	55 - 142	
Bromomethane	0.0250	0.0303	121	42 - 172	
Chloroethane	0.0250	0.0257	103	52 - 164	
Trichlorofluoromethane	0.0250	0.0235	94.0	53 - 161	
Acrolein	0.125	0.128	102	10 - 181	
1,1-Dichloroethene	0.0250	0.0205	81.9	54 - 134	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0209	83.7	53 - 143	
Acetone	0.125	0.132	106	49 - 153	
Methylene Chloride	0.0250	0.0230	91.8	67 - 122	
Acrylonitrile	0.125	0.127	102	53 - 153	
trans-1,2-Dichloroethene	0.0250	0.0230	92.1	63 - 127	
Methyl tert-butyl ether	0.0250	0.0252	101	67 - 127	
1,1-Dichloroethane	0.0250	0.0242	97.0	73 - 123	
Di-isopropyl ether	0.0250	0.0260	104	66 - 129	
2,2-Dichloropropane	0.0250	0.0236	94.3	63 - 130	
cis-1,2-Dichloroethene	0.0250	0.0243	97.1	75 - 121	
2-Butanone (MEK)	0.125	0.120	95.7	58 - 144	
Chloroform	0.0250	0.0246	98.4	76 - 122	
1,1,1-Trichloroethane	0.0250	0.0242	96.7	71 - 126	
Carbon tetrachloride	0.0250	0.0220	88.2	63 - 129	
1,1-Dichloropropene	0.0250	0.0230	91.9	67 - 127	
Benzene	0.0250	0.0233	93.3	72 - 119	
1,2-Dichloroethane	0.0250	0.0217	87.0	69 - 128	
Trichloroethene	0.0250	0.0240	95.9	69 - 131	
1,2-Dichloropropane	0.0250	0.0255	102	77 - 121	
Dibromomethane	0.0250	0.0236	94.5	77 - 124	
Bromodichloromethane	0.0250	0.0235	93.9	75 - 127	
2-Chloroethyl vinyl ether	0.125	0.0940	75.2	26 - 172	
cis-1,3-Dichloropropene	0.0250	0.0223	89.0	74 - 124	
4-Methyl-2-pentanone (MIBK)	0.125	0.131	105	58 - 147	
Toluene	0.0250	0.0240	96.1	75 - 114	
trans-1,3-Dichloropropene	0.0250	0.0209	83.8	69 - 124	
1,1,2-Trichloroethane	0.0250	0.0218	87.2	81 - 121	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	012-1112	Matrix:	Water - mg/L
Project:	21st and N Street	EPA ID:	TN00003
Collection Date:	11/5/2012	**Analytic Batch:**	**WG621720**
Analysis Date:	11/7/2012	Analyst:	505
Instrument ID:	VOCMS23		
Sample Numbers:	L604511-03, -04		

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0250	0.0238	95.3	33 - 173	
Chloromethane	0.0250	0.0268	107	50 - 141	
Vinyl chloride	0.0250	0.0260	104	55 - 142	
Bromomethane	0.0250	0.0300	120	42 - 172	
Chloroethane	0.0250	0.0260	104	52 - 164	
Trichlorofluoromethane	0.0250	0.0242	96.8	53 - 161	
Acrolein	0.125	0.132	106	10 - 181	
1,1-Dichloroethene	0.0250	0.0211	84.3	54 - 134	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0215	86.0	53 - 143	
Acetone	0.125	0.135	108	49 - 153	
Methylene Chloride	0.0250	0.0237	94.8	67 - 122	
Acrylonitrile	0.125	0.130	104	53 - 153	
trans-1,2-Dichloroethene	0.0250	0.0237	94.7	63 - 127	
Methyl tert-butyl ether	0.0250	0.0262	105	67 - 127	
1,1-Dichloroethane	0.0250	0.0251	101	73 - 123	
Di-isopropyl ether	0.0250	0.0268	107	66 - 129	
2,2-Dichloropropane	0.0250	0.0245	97.9	63 - 130	
cis-1,2-Dichloroethene	0.0250	0.0252	101	75 - 121	
2-Butanone (MEK)	0.125	0.122	97.7	58 - 144	
Chloroform	0.0250	0.0254	102	76 - 122	
1,1,1-Trichloroethane	0.0250	0.0250	100	71 - 126	
Carbon tetrachloride	0.0250	0.0230	91.9	63 - 129	
1,1-Dichloropropene	0.0250	0.0235	94.1	67 - 127	
Benzene	0.0250	0.0241	96.2	72 - 119	
1,2-Dichloroethane	0.0250	0.0224	89.5	69 - 128	
Trichloroethene	0.0250	0.0246	98.3	69 - 131	
1,2-Dichloropropane	0.0250	0.0262	105	77 - 121	
Dibromomethane	0.0250	0.0239	95.6	77 - 124	
Bromodichloromethane	0.0250	0.0241	96.2	75 - 127	
2-Chloroethyl vinyl ether	0.125	0.0845	67.6	26 - 172	
cis-1,3-Dichloropropene	0.0250	0.0227	91.0	74 - 124	
4-Methyl-2-pentanone (MIBK)	0.125	0.132	105	58 - 147	
Toluene	0.0250	0.0244	97.6	75 - 114	
trans-1,3-Dichloropropene	0.0250	0.0211	84.3	69 - 124	
1,1,2-Trichloroethane	0.0250	0.0227	90.7	81 - 121	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	012-1112	Matrix:	Water - mg/L
Project:	21st and N Street	EPA ID:	TN00003
Collection Date:	11/5/2012	**Analytic Batch:**	**WG621638**
Analysis Date:	11/6/2012	Analyst:	559
Instrument ID:	VOCMS21		
Sample Numbers:	L604511-01, -02		

Surrogate Summary

Laboratory	Dibromofluoromethane		Toluene-d8		4-Bromofluorobenzene		Alternate Surrogate a,a,a-Trifluorotoluene	
Sample ID	ppb	% Rec	ppb	% Rec	ppb	% Rec	ppb	% Rec
LCS WG621638	45.3	113	42.6	106	40.3	101	41.5	104
LCSD WG621638	42.9	107	41.4	104	39.8	99.4	41.8	105
Blank WG621638	44.2	110	41.0	103	39.9	99.6	42.7	107
MS WG621638	43.7	109	41.4	103	39.4	98.6	41.4	103
MSD WG621638	44.1	110	41.6	104	38.9	97.2	42.2	106
L604511-01	43.9	110	41.0	102	41.3	103	42.6	106
L604511-02	45.8	115	42.0	105	39.6	99.0	42.3	106

Dibromofluoromethane	40 ppb	79 - 125
Toluene - d8	40 ppb	87 - 114
4-Bromofluorobenzene	40 ppb	75 - 128
	Alternate Surrogate	
a,a,a-Trifluorotoluene	40 ppb	84 - 114

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/6/2012
Instrument ID: VOCMS21
Sample Numbers: L604511-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621638
Analyst: 559

Matrix Spike/Matrix Spike Duplicate
L604450-01

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Dichlorodifluoromethane	0.0250	0.0000	0.0264	105	0.0300	120	16-188		13	22	
Chloromethane	0.0250	0.0000	0.0260	104	0.0298	119	27-155		14	20	
Vinyl chloride	0.0250	0.0000	0.0262	105	0.0298	119	32-159		13	21	
Bromomethane	0.0250	0.0000	0.0268	107	0.0302	121	23-177		12	21	
Chloroethane	0.0250	0.0000	0.0258	103	0.0293	117	32-177		13	21	
Trichlorofluoromethane	0.0250	0.0000	0.0292	117	0.0332	133	35-177		13	23	
Acrolein	0.125	0.0000	0.122	97.3	0.140	112	10-189		14	30	
1,1-Dichloroethene	0.0250	0.0000	0.0276	110	0.0315	126	32-152		13	20	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0000	0.0303	121	0.0345	138	36-159		13	21	
Acetone	0.125	0.0092	0.0623	42.5	0.0710	49.4	34-146		13	22	
Methylene Chloride	0.0250	0.0000	0.0234	93.8	0.0259	104	52-130		9.9	20	
Acrylonitrile	0.125	0.0000	0.151	121	0.174	139	49-162		14	20	
trans-1,2-Dichloroethene	0.0250	0.0000	0.0249	99.7	0.0275	110	45-137		9.8	20	
Methyl tert-butyl ether	0.0250	0.0000	0.0266	106	0.0305	122	55-136		14	20	
1,1-Dichloroethane	0.0250	0.0000	0.0260	104	0.0285	114	58-133		9.0	20	
Di-isopropyl ether	0.0250	0.0000	0.0267	107	0.0301	120	58-133		12	20	
2,2-Dichloropropane	0.0250	0.0000	0.0272	109	0.0306	122	51-141		12	20	
cis-1,2-Dichloroethene	0.0250	0.0000	0.0243	97.2	0.0290	116	54-137		18	20	
2-Butanone (MEK)	0.125	0.0000	0.0891	71.3	0.107	85.7	51-149		18	22	
Chloroform	0.0250	0.0000	0.0263	105	0.0302	121	64-130		14	20	
1,1,1-Trichloroethane	0.0250	0.0000	0.0269	108	0.0300	120	58-137		11	20	
Carbon tetrachloride	0.0250	0.0000	0.0285	114	0.0310	124	49-140		8.3	20	
1,1-Dichloropropene	0.0250	0.0000	0.0248	99.2	0.0279	111	50-140		12	20	
Benzene	0.0250	0.0000	0.0241	96.4	0.0271	108	51-134		12	20	
1,2-Dichloroethane	0.0250	0.0000	0.0272	109	0.0308	123	59-135		12	20	
Trichloroethene	0.0250	0.0000	0.0239	95.5	0.0265	106	40-155		10	20	
1,2-Dichloropropane	0.0250	0.0000	0.0246	98.2	0.0272	109	68-126		10	20	
Dibromomethane	0.0250	0.0000	0.0258	103	0.0306	123	68-131		17	20	
Bromodichloromethane	0.0250	0.0000	0.0253	101	0.0286	114	67-132		12	20	
2-Chloroethyl vinyl ether	0.125	0.0000	0.0264	21.1	0.0132	10.5	10-161		67	40	J3
cis-1,3-Dichloropropene	0.0250	0.0000	0.0248	99.1	0.0275	110	63-127		11	20	
4-Methyl-2-pentanone (MIBK)	0.125	0.0000	0.130	104	0.154	123	53-154		17	21	
Toluene	0.0250	0.0000	0.0241	96.3	0.0268	107	61-126		11	20	
trans-1,3-Dichloropropene	0.0250	0.0000	0.0259	103	0.0276	110	59-130		6.4	20	
1,1,2-Trichloroethane	0.0250	0.0000	0.0245	98.1	0.0282	113	73-128		14	20	
Tetrachloroethene	0.0250	0.0000	0.0234	93.7	0.0267	107	56-139		13	20	
1,3-Dichloropropane	0.0250	0.0000	0.0243	97.2	0.0270	108	70-122		11	20	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/6/2012
Instrument ID: VOCMS21
Sample Numbers: L604511-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621638
Analyst: 559

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
Dichlorodifluoromethane	0.0250	0.0292	117	0.0257	103	33-173		13	20	
Chloromethane	0.0250	0.0297	119	0.0258	103	50-141		14	20	
Vinyl chloride	0.0250	0.0296	119	0.0266	106	55-142		11	20	
Bromomethane	0.0250	0.0317	127	0.0264	105	42-172		19	20	
Chloroethane	0.0250	0.0301	120	0.0281	112	52-164		7.0	20	
Trichlorofluoromethane	0.0250	0.0326	130	0.0295	118	53-161		9.8	20	
Acrolein	0.125	0.168	134	0.144	115	10-181		16	30	
1,1-Dichloroethene	0.0250	0.0307	123	0.0279	111	54-134		9.6	20	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0345	138	0.0292	117	53-143		17	20	
Acetone	0.125	0.153	123	0.129	103	49-153		17	21	
Methylene Chloride	0.0250	0.0254	101	0.0224	89.5	67-122		12	20	
Acrylonitrile	0.125	0.171	137	0.146	117	53-153		15	20	
trans-1,2-Dichloroethene	0.0250	0.0276	110	0.0248	99.1	63-127		11	20	
Methyl tert-butyl ether	0.0250	0.0297	119	0.0262	105	67-127		12	20	
1,1-Dichloroethane	0.0250	0.0285	114	0.0254	102	73-123		12	20	
Di-isopropyl ether	0.0250	0.0298	119	0.0264	106	66-129		12	20	
2,2-Dichloropropane	0.0250	0.0299	120	0.0264	106	63-130		12	20	
cis-1,2-Dichloroethene	0.0250	0.0277	111	0.0245	98.2	75-121		12	20	
2-Butanone (MEK)	0.125	0.149	119	0.126	101	58-144		17	20	
Chloroform	0.0250	0.0289	116	0.0255	102	76-122		13	20	
1,1,1-Trichloroethane	0.0250	0.0299	119	0.0266	106	71-126		12	20	
Carbon tetrachloride	0.0250	0.0303	121	0.0268	107	63-129		12	20	
1,1-Dichloropropene	0.0250	0.0279	111	0.0247	98.6	67-127		12	20	
Benzene	0.0250	0.0270	108	0.0239	95.6	72-119		12	20	
1,2-Dichloroethane	0.0250	0.0308	123	0.0266	106	69-128		15	20	
Trichloroethene	0.0250	0.0270	108	0.0242	96.6	69-131		11	20	
1,2-Dichloropropane	0.0250	0.0267	107	0.0242	96.9	77-121		9.5	20	
Dibromomethane	0.0250	0.0308	123	0.0257	103	77-124		18	20	
Bromodichloromethane	0.0250	0.0285	114	0.0252	101	75-127		12	20	
2-Chloroethyl vinyl ether	0.125	0.119	95.4	0.107	85.2	26-172		11	22	
cis-1,3-Dichloropropene	0.0250	0.0279	112	0.0254	102	74-124		9.5	20	
4-Methyl-2-pentanone (MIBK)	0.125	0.157	126	0.133	107	58-147		16	20	
Toluene	0.0250	0.0264	106	0.0236	94.3	75-114		11	20	
trans-1,3-Dichloropropene	0.0250	0.0266	106	0.0263	105	69-124		1.1	20	
1,1,2-Trichloroethane	0.0250	0.0274	110	0.0253	101	81-121		7.9	20	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/7/2012
Instrument ID: VOCMS23
Sample Numbers: L604511-03, -04

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621720
Analyst: 505

Matrix Spike/Matrix Spike Duplicate
L604468-06

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qualifier	% RPD	Control Limits	RPD Qual
Dichlorodifluoromethane	0.0250	0.0000	0.0233	93.3	0.0250	100	16-188		7.1	22	
Chloromethane	0.0250	0.0000	0.0251	101	0.0271	108	27-155		7.4	20	
Vinyl chloride	0.0250	0.0000	0.0253	101	0.0271	108	32-159		6.8	21	
Bromomethane	0.0250	0.0000	0.0295	118	0.0306	122	23-177		3.5	21	
Chloroethane	0.0250	0.0000	0.0255	102	0.0271	108	32-177		6.2	21	
Trichlorofluoromethane	0.0250	0.0000	0.0239	95.7	0.0255	102	35-177		6.5	23	
Acrolein	0.125	0.0000	0.135	108	0.154	123	10-189		13	30	
1,1-Dichloroethene	0.0250	0.0000	0.0245	98.2	0.0270	108	32-152		9.6	20	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0000	0.0282	113	0.0308	123	36-159		8.7	21	
Acetone	0.125	0.0000	0.0584	46.7	0.0669	53.5	34-146		14	22	
Methylene Chloride	0.0250	0.0000	0.0226	90.3	0.0251	101	52-130		11	20	
Acrylonitrile	0.125	0.0000	0.117	93.4	0.136	109	49-162		15	20	
trans-1,2-Dichloroethene	0.0250	0.0000	0.0228	91.1	0.0253	101	45-137		10	20	
Methyl tert-butyl ether	0.0250	0.0000	0.0255	102	0.0290	116	55-136		13	20	
1,1-Dichloroethane	0.0250	0.0000	0.0239	95.6	0.0266	107	58-133		11	20	
Di-isopropyl ether	0.0250	0.0000	0.0252	101	0.0283	113	58-133		12	20	
2,2-Dichloropropane	0.0250	0.0000	0.0245	98.1	0.0268	107	51-141		8.9	20	
cis-1,2-Dichloroethene	0.0250	0.0000	0.0228	91.3	0.0255	102	54-137		11	20	
2-Butanone (MEK)	0.125	0.0000	0.0785	62.8	0.0915	73.2	51-149		15	22	
Chloroform	0.0250	0.0000	0.0232	92.6	0.0256	102	64-130		10	20	
1,1,1-Trichloroethane	0.0250	0.0000	0.0242	96.9	0.0264	106	58-137		8.6	20	
Carbon tetrachloride	0.0250	0.0000	0.0221	88.3	0.0239	95.6	49-140		7.9	20	
1,1-Dichloropropene	0.0250	0.0000	0.0215	86.0	0.0237	94.9	50-140		9.9	20	
Benzene	0.0250	0.0000	0.0216	86.5	0.0241	96.2	51-134		11	20	
1,2-Dichloroethane	0.0250	0.0000	0.0188	75.1	0.0216	86.2	59-135		14	20	
Trichloroethene	0.0250	0.0000	0.0213	85.3	0.0237	95.0	40-155		11	20	
1,2-Dichloropropane	0.0250	0.0000	0.0228	91.2	0.0256	102	68-126		12	20	
Dibromomethane	0.0250	0.0000	0.0207	82.9	0.0239	95.4	68-131		14	20	
Bromodichloromethane	0.0250	0.0000	0.0198	79.2	0.0227	90.7	67-132		14	20	
2-Chloroethyl vinyl ether	0.125	0.0000	0.0234	18.8	0.0040	3.2	10-161	J6	142	40	J3
cis-1,3-Dichloropropene	0.0250	0.0000	0.0187	74.9	0.0212	85.0	63-127		13	20	
4-Methyl-2-pentanone (MIBK)	0.125	0.0000	0.118	94.1	0.138	111	53-154		16	21	
Toluene	0.0250	0.0000	0.0216	86.4	0.0240	95.9	61-126		10	20	
trans-1,3-Dichloropropene	0.0250	0.0000	0.0167	66.9	0.0195	77.9	59-130		15	20	
1,1,2-Trichloroethane	0.0250	0.0000	0.0193	77.1	0.0218	87.1	73-128		12	20	
Tetrachloroethene	0.0250	0.0000	0.0213	85.1	0.0229	91.8	56-139		7.5	20	
1,3-Dichloropropane	0.0250	0.0000	0.0191	76.4	0.0217	86.7	70-122		13	20	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/7/2012
Instrument ID: VOCMS23
Sample Numbers: L604511-03, -04

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621720
Analyst: 505

Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
Dichlorodifluoromethane	0.0250	0.0236	94.2	0.0238	95.3	33-173		1.1	20	
Chloromethane	0.0250	0.0268	107	0.0268	107	50-141		0.1	20	
Vinyl chloride	0.0250	0.0258	103	0.0260	104	55-142		0.6	20	
Bromomethane	0.0250	0.0303	121	0.0300	120	42-172		1.0	20	
Chloroethane	0.0250	0.0257	103	0.0260	104	52-164		0.9	20	
Trichlorofluoromethane	0.0250	0.0235	94.0	0.0242	96.8	53-161		2.9	20	
Acrolein	0.125	0.128	102	0.132	106	10-181		3.7	30	
1,1-Dichloroethene	0.0250	0.0205	81.9	0.0211	84.3	54-134		2.9	20	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0209	83.7	0.0215	86.0	53-143		2.8	20	
Acetone	0.125	0.132	106	0.135	108	49-153		2.4	21	
Methylene Chloride	0.0250	0.0230	91.8	0.0237	94.8	67-122		3.2	20	
Acrylonitrile	0.125	0.127	102	0.130	104	53-153		2.3	20	
trans-1,2-Dichloroethene	0.0250	0.0230	92.1	0.0237	94.7	63-127		2.8	20	
Methyl tert-butyl ether	0.0250	0.0252	101	0.0262	105	67-127		3.8	20	
1,1-Dichloroethane	0.0250	0.0242	97.0	0.0251	101	73-123		3.7	20	
Di-isopropyl ether	0.0250	0.0260	104	0.0268	107	66-129		3.4	20	
2,2-Dichloropropane	0.0250	0.0236	94.3	0.0245	97.9	63-130		3.8	20	
cis-1,2-Dichloroethene	0.0250	0.0243	97.1	0.0252	101	75-121		3.6	20	
2-Butanone (MEK)	0.125	0.120	95.7	0.122	97.7	58-144		2.2	20	
Chloroform	0.0250	0.0246	98.4	0.0254	102	76-122		3.1	20	
1,1,1-Trichloroethane	0.0250	0.0242	96.7	0.0250	100	71-126		3.4	20	
Carbon tetrachloride	0.0250	0.0220	88.2	0.0230	91.9	63-129		4.1	20	
1,1-Dichloropropene	0.0250	0.0230	91.9	0.0235	94.1	67-127		2.3	20	
Benzene	0.0250	0.0233	93.3	0.0241	96.2	72-119		3.1	20	
1,2-Dichloroethane	0.0250	0.0217	87.0	0.0224	89.5	69-128		2.9	20	
Trichloroethene	0.0250	0.0240	95.9	0.0246	98.3	69-131		2.4	20	
1,2-Dichloropropane	0.0250	0.0255	102	0.0262	105	77-121		2.7	20	
Dibromomethane	0.0250	0.0236	94.5	0.0239	95.6	77-124		1.2	20	
Bromodichloromethane	0.0250	0.0235	93.9	0.0241	96.2	75-127		2.4	20	
2-Chloroethyl vinyl ether	0.125	0.0940	75.2	0.0845	67.6	26-172		11	22	
cis-1,3-Dichloropropene	0.0250	0.0223	89.0	0.0227	91.0	74-124		2.2	20	
4-Methyl-2-pentanone (MIBK)	0.125	0.131	105	0.132	105	58-147		0.3	20	
Toluene	0.0250	0.0240	96.1	0.0244	97.6	75-114		1.5	20	
trans-1,3-Dichloropropene	0.0250	0.0209	83.8	0.0211	84.3	69-124		0.6	20	
1,1,2-Trichloroethane	0.0250	0.0218	87.2	0.0227	90.7	81-121		3.9	20	

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Quality Control Summary
SDG: L604511
Olsson Associates

Test: Volatile Organic Compounds by Method 8260B
Project No: 012-1112
Project: 21st and N Street
Collection Date: 11/5/2012
Analysis Date: 11/6/2012
Instrument ID: VOCMS21
Sample Numbers: L604511-01, -02

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG621638
Analyst: 559

Internal Standard Response and Retention Time Summary

FileID:1106_02.D Date:11/6/2012 Time:8:46 AM

	IS1 Response	RT	IS2 Response	RT	IS3 Response	RT	IS4 Response	RT
12 Hour Std	227484	5.65	380394	6.16	58425	7.8	184589	10.65
Upper Limit	454968	6.15	760788	6.66	116850	8.3	369178	11.15
Lower Limit	113742	5.15	190197	5.66	29212.5	7.3	92294.5	10.15

Sample ID	Response	RT	Response	RT	Response	RT	Response	RT
Blank WG621638	247543	5.65	408259	6.16	58804	7.81	187931	10.65
L604511-01	197992	5.65	333333	6.16	46019	7.8	155002	10.65
L604511-02	213918	5.65	356705	6.16	53643	7.8	167578	10.65
LCS WG621638	215353	5.65	351040	6.16	54226	7.81	177761	10.65
LCSD WG621638	233075	5.65	375481	6.16	56711	7.8	183776	10.65
MS WG621638	234078	5.65	384021	6.16	58422	7.8	189703	10.65
MSD WG621638	214287	5.65	348763	6.16	54005	7.81	169475	10.65

B149

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Lincoln ~~Mall~~ NE 68508

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Karen O'Connor
Olsson Associates
1111 Lincoln Mall
Lincoln, NE 68508

Report to: Karen O'Connor
Email to: KOCONNOR@OLSSONASSOCIATES.COM

Analysis/Container/Preservative: 8260 VOCs

Chain of Custody
Page 1 of 1

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Project Description: 21st - N St.
City/State Collected: Lincoln, NE
Phone: 402-458-5033
FAX:
Client Project #: 012-1112
ESC Key:
Collected by: Ryan Doty
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:
Email? ___No X Yes
FAX? X No ___Yes

CoCode (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs		Remarks/Contaminant	Sample # (lab only)
TMW-5	Grab	GW	—	11/5/12	1705	2	X		L604511-01
TMW-6	Grab	GW	—	11/5/12	1623	2	X		-02
TMW-7	Grab	GW	—	11/5/12	1640	2	X		-03
P-3	Grab	GW	—	11/5/12	1640	2	X		-04

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks: 8015 6093 5740

Flow _____ Other _____

Relinquished by: (Signature)	Date: 11/5/12	Time: 1800	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: OK	(lab use only) MS
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2°C	Bottles Received: 8V	CoC Seals Intact. ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/06/12	Time: 0900	pH Checked: NCF: