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Ford Motor Company

Underground Storage Tank (UST) Removal Report – Unleaded Gasoline Tanks

Twin Cities Assembly Plant
St. Paul, Minnesota

ARCADIS

Underground Storage Tank (UST) Removal Report – Unleaded Gasoline Tanks

Twin Cities Assembly Plant
966 South Mississippi Boulevard
St. Paul, Minnesota 55166

Kelly Hoehn
Environmental Specialist

Ryan Oesterreich
Project Engineer, PE, PG

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Geologist under the laws of the State of Minnesota.

Print Name: Ryan Christopher Oesterreich

Signature:

Date: 4-13-15 License # 47974

Prepared for:
Ford Motor Company

Prepared by:
ARCADIS U.S., Inc.
430 First Avenue North, Suite 720
Minneapolis
Minnesota 55401
Tel 612.339.9434
Fax 612.336.4538

Our Ref.:
MN000622.0001.00002

Date:
April 10, 2015

Table of Contents

1. Introduction

On behalf of Ford Motor Company (Ford), ARCADIS has prepared this *Underground Storage Tank (UST) Removal Report – Unleaded Gasoline Tanks* (UST Removal) for the Twin Cities Assembly Plant (TCAP; Site). The Site is located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota at approximate Latitude (north) 44° 54' 50.8" and Longitude (west) 93° 11' 31.9". The Site is located in a mixed industrial, commercial and residential use area on the eastern shore of the Mississippi River, along the east side of South Mississippi River Boulevard, south of Ford Parkway and west of South Cleveland Avenue. The UST Removal was conducted in accordance with the *Environmental Contingency Plan* (*ECP*) – *Underground Storage Tank Removal,* (ARCADIS 2013) approved by the MPCA on May 28, 2013 (Appendix A).

This UST Removal Report describes the decommissioning and subsurface evaluation activities completed as part of the gasoline UST removal. The USTs were decommissioned in April 2013 by MidAmerica Technical & Environmental Services, Inc. (MidAmerica), of Oakdale, Minnesota. In July 2013, ARCADIS completed a portion of the subsurface investigation scope of services concurrently with the UST removal. These services included:

- Photoionization detector (PID) screening samples and soil analytical sample collection consistent with methodologies described in the ECP and Section 3 of this Report,
- Documentation of the condition of the USTs upon removal, and
- Survey of soil sample locations in the field with a handheld GPS unit.

Due to the proximity of the USTs to the Site's fire loop line west of the USTs, removal of the concrete slab beneath the USTs was delayed until the fire loop line could be decommissioned as part of the Site's demolition activities.

Phase II (Slab Removal) demolition activities at the Site commenced for the unleaded gasoline UST basin in February 2015. Demolition activities specific to the UST basin included:

- Removal of the concrete slab supporting the USTs, and
- Excavation of the three feet of soil below the concrete slab supporting the USTs.

Post-UST removal subsurface investigation activities were completed concurrently with the UST basin activities detailed above and included:

- PID field screening consistent with methodologies described in the ECP and Section 3.

Following removal of the concrete pad and three feet of underlying soil, base soil screening samples were not collected because bedrock was encountered.

2. Unleaded Gasoline UST Description and Background

Two 20,000-gallon USTs were installed in 1992 west of the Warehouse Building (Feature No. 24 from the ARCADIS 2007 Phase I Environmental Site Assessment, ARCADIS 2007) (Figure 1). The USTs were installed on a concrete pad that was set below ground surface within a walled concrete pit. The tanks were then covered with soil within the pit. The USTs were used to store unleaded gasoline to partially fill newly assembled vehicles in the fluid fill area of the Main Assembly Building (MAB), for testing and for relocation of finished vehicles to storage parking lots. The USTs were of STI-P3® construction with cathodic protection. A review of available documentation indicated that there were no reported releases from the USTs.

Manufacturing operations at the Site ceased on December 16, 2011, with decommissioning activities beginning in January 2012. As part of the decommissioning, the unleaded gasoline USTs were emptied and cleaned for disposal as scrap metal following RCRA standards in April 2013 by MPS Group, with oversight by MidAmerica. ARCADIS provided on-site oversight of soil excavation and UST removal in July 2013, and subsequent soil excavation for removal of the underlying concrete pad in February 2015. The following sections detail the observations and data collected during soil excavation and UST removal. Appendix B includes a photographic log of soil excavation and tank removal observations, as well as documentation of the UST integrity following removal.

3. Field Methodology

This section provides details on the methodologies utilized during UST removal which was completed in accordance with the ECP. An ARCADIS representative was present during the soil excavation and UST removal activities to monitor and inspect the tanks and soil during removal. The soil investigation consisted of both soil screening using a PID and analytical sampling of the soil directly beneath the USTs and dispenser. Details of each activity are included in the sections below.

3.1 Field Screening Criteria

Soil was screened with a PID using an 11.7 electron volt (eV) lamp and visually inspected for indications of impact. Field screening was also utilized to determine whether any excavated soil should be segregated for off-site disposal or remain available for re-use as fill. The PID was calibrated twice daily to ensure proper working order. Field screening with the PID occurred at the following intervals:

During soil excavation: PID readings were collected for every 10 cubic yards of excavated soil surrounding the USTs. These screening samples were given the following nomenclature:

R-10 = removed - 10 (cumulative cubic yards removed)

Following Soil Excavation: After the USTs and underlying concrete pad had been removed from the basin, PID readings were collected from the remaining soil at the following intervals:

- Excavation base (around the edges of the UST concrete pad) - one PID sample for every 100 square feet, and
- Sidewalls - one PID sample for every 25 lineal feet at 4 foot vertical intervals.

Samples collected during screening of the soil left in place were named using the following nomenclatures:

GSS1 – East = **g**asoline (USTs) **s**idewall **s**outh (side) **e**ast (tank)
GSN1 = **g**asoline (USTs) **s**idewall **n**orth (side)
GSM = **g**asoline (USTs) **s**idewall **m**iddle (between USTs)
GBSE = **g**asoline (USTs) **b**ase **s**outh (end) **e**ast (tank)
GBBW = **g**asoline (USTs) **b**elow **b**ase (edge of concrete pad) **w**est (side)
UST-Slab-SW-N = Sidewall remaining after removal of concrete slab supporting USTs, **n**orth side

Field screening with a PID was not conducted from beneath the concrete pad due to the presence of bedrock. Excavated soil was segregated in accordance with the ECP and field screening results.

3.2 Analytical Sampling

ARCADIS collected and submitted soil samples for laboratory analysis from below each end of each UST, as well as below the dispenser, as stipulated in Table 1 of the ECP. Each sample was analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260 and gasoline range organics (GRO) using the Wisconsin Modified Method. Sample nomenclature was as follows:

- GBNE-13 = **g**asoline (USTs) **b**ase **n**orth (side) **e**ast (tank) - 13 [depth below ground surface(bgs)
- GD-2 = **g**asoline (USTs) **d**ispenser – 2 feet bgs

All samples were collected in laboratory supplied containers and placed on ice pending shipment to the laboratory. All samples were submitted to Test America of North Canton, Ohio following standard chain-of-custody procedures.

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4. UST Removal, Soil Screening and Analytical Results

The following is a chronological summary of activities and results from the unleaded gasoline UST removal. A summary of field screening results are included in Table 1. Field screening results collected from the sidewalls and below the concrete pad are shown on Figure 2. Analytical results of soil samples collected were compared to Tier I Residential and Tier II Industrial soil reference values (SRVs) and are summarized in Table 2.

4.1 UST Removal Activities Completed in 2013

Overlying soil that was on top of the USTs was removed and screened. Screening samples R-10 through R-90 did not exhibit any PID readings above background (Table 1).

Inspection: After the USTs were exposed and removed Arcadis visually inspected both USTs for deterioration and structural abnormalities. No erosion or deterioration was observed on either UST (Appendix B). The fuel dispenser was also removed and no signs of deterioration or structural abnormality were observed.

PID Field Screening: The soil exposed after the USTs and dispenser were removed was then screened using a PID. Screening results are shown on Table 1and Figure 2. No PID readings of the exposed soil exhibited readings above background.

One PID reading was collected from the exposed soil beneath the dispenser. The location of the sample is shown on Figure 3 and its corresponding PID reading is in Table 1. The PID screening sample had a reading slightly above background at 5.6 parts per million (ppm).

Following soil sample collection for laboratory analysis (discussed below), field screening was conducted from the soil around the edges of the concrete pad that was supporting the USTs. Readings associated with these locations are shown on Table 2 and Figure 2. None of the PID screening samples had detections above background.

Analytical Sampling: In accordance with the requirements of the ECP, five analytical soil samples were collected and analyzed for VOCs and GRO. One sample was collected from below each end of each tank and one sample was collected below the dispenser. The approximate location of each soil sample is shown on Figure 3 with the analytical results presented in Table 2. No compounds were detected at concentrations

that exceeded their respective SRVs. Laboratory analytical and verification reports are included in Appendix C.

The concrete slab supporting the USTs was left in place until 2015 activities could be completed (see below). Following 2013 field screening activities, all soil excavated during the UST removal was placed back in the excavation.

4.2 UST Removal Activities Completed in 2015

After the fire line was abandoned, the remaining soil on top of and below the concrete slab was screened at a frequency of one PID reading for every 10 cubic yards of soil. These samples (R-10 through R-920 on Table 1) did not exhibit any PID readings above background. The soil was screened to a depth of approximately three feet below the concrete slab until bedrock was encountered.

In addition, field screening was conducted from the sidewalls of the excavation. Results of this screening are shown on Table 1 and on Figure 2. There were no PID detections above background. As noted in Section 3, field screening was not conducted from the base of the excavation because bedrock was encountered. Following the sidewall screening, the soil was placed back in the excavation.

5. Conclusions

All activities described above were completed in accordance with the ECP for UST removal. Soil analytical and screening results completed as part of this investigation demonstrate that the unleaded gasoline USTs installed in 1992 and removed in 2013 did not impact the soil at concentrations exceeding residential SRVs.

6. References

ARCADIS, 2007. Phase I Environmental Assessment, Twin Cities Assembly Plant, St. Paul, Minnesota. June.

ARCADIS, 2013. Environmental Contingency Plan – Underground Storage Tank Removal, Ford Motor Company, Twin Cities Assembly Plant, St. Paul, Minnesota. May

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Tables

Table 1
Summary of Field Screening

Underground Storage Tank (UST) Removal Report - Unleaded Gasoline Tanks
Ford Motor Company
Twin Cities Assembly Plant, St. Paul, Minnesota

Location	Depth (ft)	PID Reading (ppm)	Location	Depth (ft)	PID Reading (ppm)
Excavated Soil Samples (2013)			**Excavated Soil Samples**		
R-10	--	0.0	R-400	--	0.0
R-20	--	0.0	R-410	--	0.1
R-30	--	0.0	R-420	--	0.0
R-40/GSE2	8	0.0	R-430	--	0.0
R-50	--	0.0	R-440	--	0.1
R-60	--	0.1	R-450	--	0.0
R-70	--	0.1	R-460	--	0.1
R-80	--	0.1	R-470	--	0.0
R-90	--	0.1	R-480	--	0.0
			R-490	--	0.1
Excavated Soil Samples (2015)			R-500	--	0.1
R-10	--	0.3	R-510	--	0.1
R-20	--	0.6	R-520	--	0.1
R-30	--	0.6	R-530	--	0.0
R-40	--	0.0	R-540	--	0.1
R-50	--	0.0	R-550	--	0.2
R-60	--	0.0	R-560	--	0.0
R-70	--	0.1	R-570	--	0.0
R-80	--	0.2	R-580	--	0.1
R-90	--	0.2	R-590	--	0.0
R-100	--	0.3	R-600	--	0.0
R-110	--	0.0	R-610	--	0.1
R-120	--	0.0	R-620	--	0.0
R-130	--	0.0	R-630	--	0.1
R-140	--	0.1	R-640	--	0.0
R-150	--	0.2	R-650	--	0.0
R-160	--	0.0	R-660	--	0.1
R-170	--	0.0	R-670	--	0.0
R-180	--	0.7	R-680	--	0.0
R-190	--	0.6	R-690	--	0.0
R-200	--	0.6	R-700	--	0.0
R-210	--	0.8	R-710	--	0.0
R-220	--	0.6	R-720	--	0.1
R-230	--	0.5	R-730	--	0.0
R-240	--	0.1	R-740	--	0.0
R-250	--	0.0	R-750	--	0.1
R-260	--	0.1	R-760	--	0.1
R-270	--	0.1	R-770	--	0.0
R-280	--	0.0	R-780	--	0.1
R-290	--	0.1	R-790	--	0.1
R-300	--	0.1	R-800	--	0.1
R-310	--	0.1	R-810	--	0.0
R-320	--	0.1	R-820	--	0.1
R-330	--	0.0	R-830	--	0.0
R-340	--	0.2	R-840	--	0.1
R-350	--	0.0	R-850	--	0.0
R-360	--	0.0	R-860	--	0.1
R-370	--	0.0	R-870	--	0.1
R-380	--	0.0	R-880	--	0.1

Table 1
Summary of Field Screening

Underground Storage Tank (UST) Removal Report - Unleaded Gasoline Tanks
Ford Motor Company
Twin Cities Assembly Plant, St. Paul, Minnesota

Location	Depth (ft)	PID Reading (ppm)	Location	Depth (ft)	PID Reading (ppm)
R-390	--	0.0	R-890	--	0.0
Excavated Soil Samples (2015)			**UST Bottom Soil Samples (2013)**		
R-900	--	0.1	GBNE	13	0.1
R-910	--	0.1	GBSE	13	0.1
R-920	--	0.1	GBSW	13	0.1
UST Sidewall Soil Samples (2013)			GBNW	13	0.1
GSE1	4	0.0	**Below Concrete Base Soil Samples (2013)**		
GSE2/R-40	8	0.0	GBBN	16	0.1
GSE3	12	0.0	GBBW	16	0.1
GSS1 (east tank)	4	0.0	GBBE	16	0.2
GSS2 (east tank)	8	0.1	GBBS-1	16	0.1
GSW2	8	0.1	GBBS-2	16.5	0.2
GSW3	12	0.1	**Below Gasoline Dispenser (2013)**		
GSN1	4	0.1	GD	2	5.6
GSN2	8	0.1	**Final Excavation Sidewall Soil**		
GSM1	4	0.1	UST-Slab-SW-N	3	0.3
GSM2	9	0.1	UST-Slab-SW-E	3	0.1
			UST-Slab-SW-S	3	0.1
			UST-Slab-SW-W	3	0.1

Table 2
Summary of Detected Constituents in Soil Samples

Underground Storage Tank (UST) Removal Report - Unleaded Gasoline Tanks
Ford Motor Company
Twin Cities Assembly Plant, St. Paul, Minnesota

Feature Number Feature Name Location ID Sample ID Sample Date	Units	Tier 1 Residential SRVs	Tier 2 Industrial SRVs	24 Unleaded Gasoline USTs GBNE_13 GBNE_13(20130729) 7/29/2013	24 Unleaded Gasoline USTs GBNW_13 GBNW_13(20130729) 7/29/2013	24 Unleaded Gasoline USTs GBSE_13 GBSE_13(20130729) 7/29/2013	24 Unleaded Gasoline USTs GBSW_13 GBSW_13(20130729) 7/29/2013	24 Unleaded Gasoline USTs GD_2 GD_2(20130801) 8/1/2013
VOCs								
1,2,4-Trimethylbenzene	mg/kg	8	25	< 0.28	< 0.26	< 0.27	< 0.23	0.079 J
1,3,5-Trimethylbenzene	mg/kg	3	10	< 0.28	< 0.26	< 0.27	< 0.23	0.024 J
2-Butanone (MEK)	mg/kg	5500	19000	0.054 J	< 1.1	< 1.1	< 0.91	< 0.96
Ethylbenzene	mg/kg	200	200	< 0.28	< 0.26	< 0.27	< 0.23	0.0092 J
Methyl acetate	mg/kg	NS	NS	< 0.56	0.029 J	0.11 J	0.049 J	0.6 J
m-Xylene & p-Xylene	mg/kg	45	130	< 0.56	< 0.53	< 0.54	< 0.46	0.044 J
Xylene, -o	mg/kg	45	130	< 0.28	< 0.26	< 0.27	< 0.23	0.018 J
Gasoline Range Organics								
Gasoline Range Organics	mg/kg	NS	NS	< 11	< 10	< 10	< 10	1.4 J

General Notes:

Only detected compounds are shown

Acronyms and Abbreviations:

Bold = exceeds Tier I Residential SRV

Shade = exceeds Tier II Industrial SRV

< = not deteced above reporting detection limit

J = estimated result

NS = no standard

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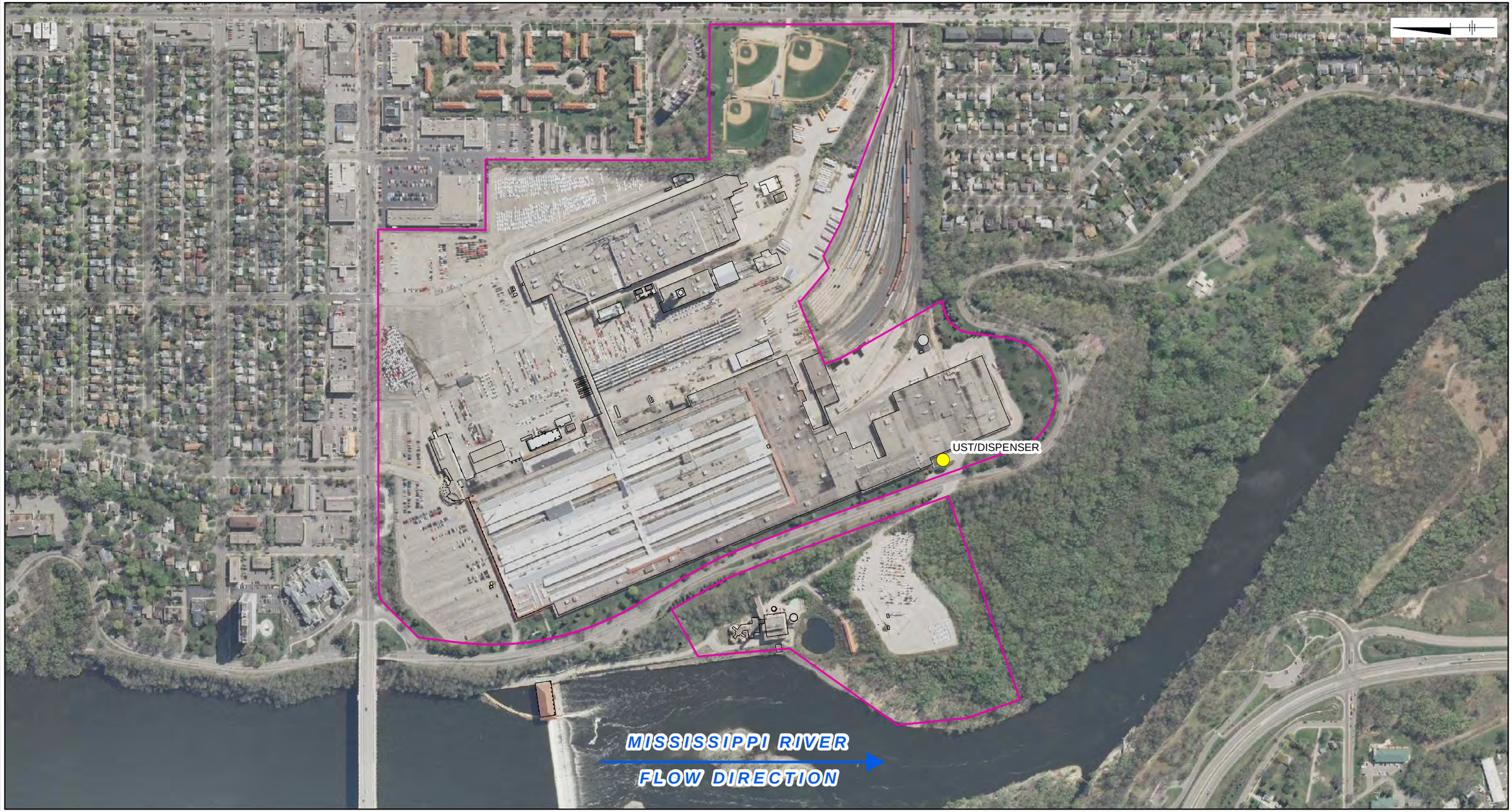
Figures



LEGEND:

- UST/Dispenser Location
- Ford Property Boundary

0 450 900 Feet

1 inch = 450 feet

Imagery Source: MnGeo WMS service, 2010 color 7-county
http://geoint.lmic.state.mn.us/cgi-bin/wms? Accessed 3/15/2015

Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Former Unleaded Gasoline UST/Dispenser Location

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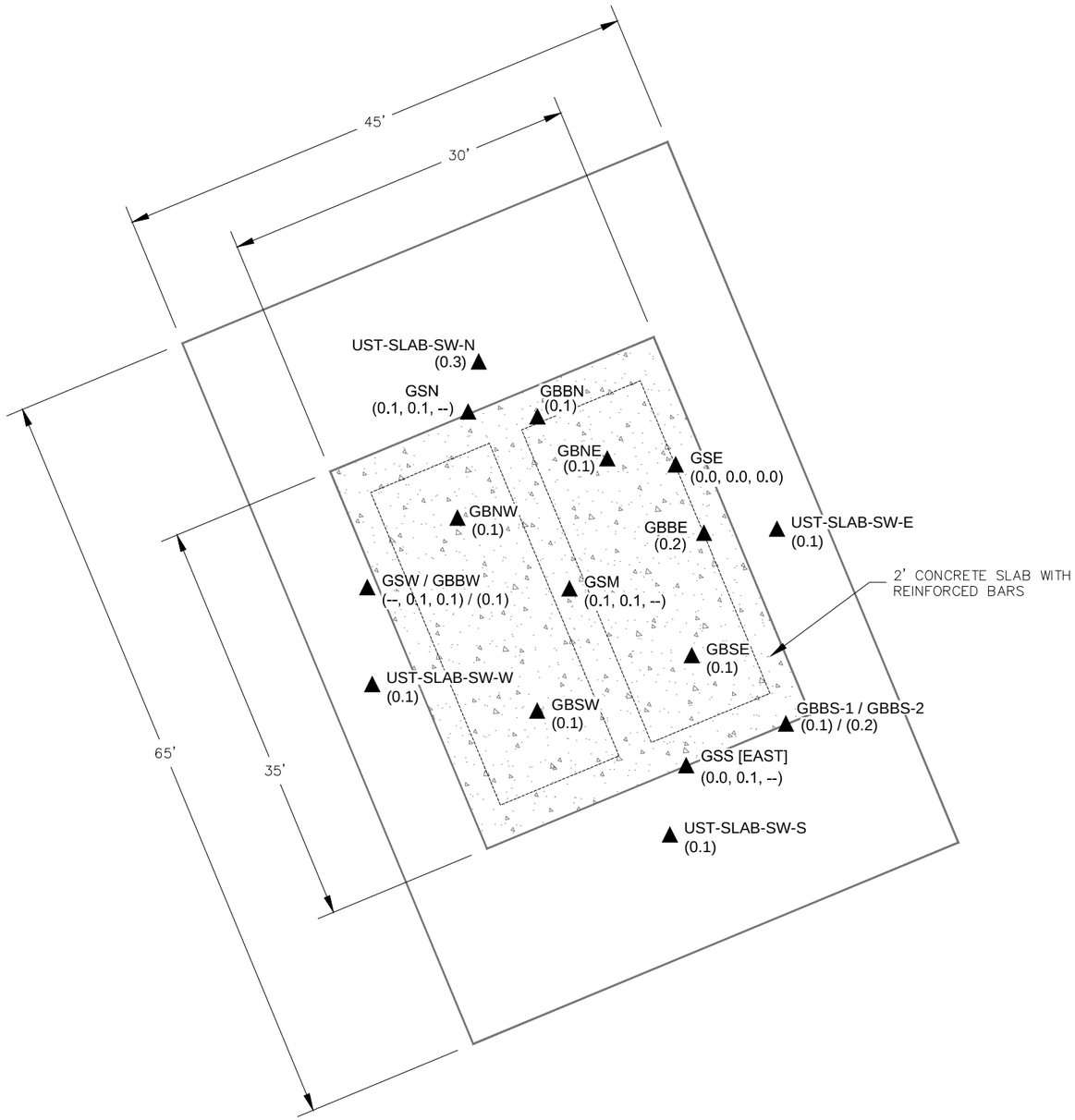
FIGURE 1

CITY: MPLS DIV/GROUP: IM DB: MG LD: TW PM: BZ
FORD ST. PAUL
Document Path: G:\GIS\Projects\Ford Ranger\ArcMap\2015\2015-03\Former_GasUST_Dispenser_20150313.mxd



PLAN VIEW

LEGEND:

SIDEWALL LOCATION (HEADSPACE PPM AT 4 FT; 8 FT; 12 FT)

BELOW CONCRETE BASE LOCATION (HEADSPACE PPM)

▲ = APPROXIMATE LOCATION

▭ = APPROXIMATE LOCATION OF UNLEADED GASOLINE USTs REMOVED

NOTES:

1. EXAMPLE NOMENCLATURE FOR THE SAMPLING LOCATIONS AS FOLLOWS:
   - GSNE = GASOLINE (USTs) SIDEWALL NORTH (SIDE) EAST (TANK)
   - GSM = GASOLINE (USTs) SIDEWALL MIDDLE
   - GBBW = GASOLINE (USTs) BELOW BASE (EDGE OF CONCRETE PAD) WEST (SIDE)
   - GBSE = GASOLINE (USTs) BASE SOUTH (END) EAST (SIDE)
2. UP TO THREE HEADSPACE SAMPLES WERE COLLECTED PER SIDEWALL LOCATION. THE SAMPLES (IN PPM) WERE COLLECTED AT 4 FEET, 8 FEET, AND 12 FEET BELOW THE ORIGINAL TOP OF TANKS.

0 6' 12'
GRAPHIC SCALE

▲ GD (5.6)

FORD
TWIN CITIES ASSEMBLY PLANT
ST. PAUL, MINNESOTA

**PID SCREENING READINGS-
SIDEWALL AND BELOW CONCRETE BASE**

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FIGURE
2

LEGEND:

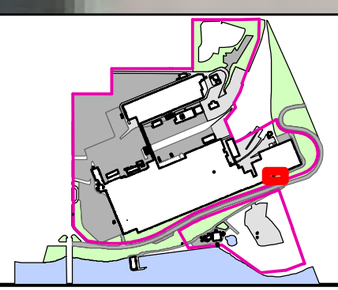
- Approximate Locations
- Approximate Locations (GPS)
- Feature

0 15 30 Feet

1 inch = 15 feet

NOTES:

Imagery Source: MnGeo WMS service, 2010 color 7-county
http://geoint.lmic.state.mn.us/cgi-bin/wms? Accessed 3/13/2015



Twin Cities Assembly Plant
Ford Motor Company
St. Paul, Minnesota

Soil Analytical Locations

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FIGURE
3

CITY: Minneapolis, MN DB: MGress PM: BZinda
Project: MN000593
Path: G:\GIS\Projects\Ford Ranger\ArcMap\2015\2015-04\Former_GasUST_Soil_20150407.mxd

Appendix A

MPCA Approval – Environmental Contingency Plan-Underground Storage Tank Removal

Minnesota Pollution Control Agency

520 Lafayette Road North || St. Paul, Minnesota 55155-4194 || 651-296-6300

800-657-3864 || 651-282-5332 TTY || www.pca.state.mn.us || Equal Opportunity Employer

May 28, 2013

Mr. Charles Pinter, Senior Environmental Engineer
Ford Motor Company
Environmental Quality Office
Fairlane Plaza North
290 Town Center Drive, Suite 800
Dearborn, Michigan 48126

RE: Ford Twin Cities Plant, 966 South Mississippi River Boulevard, St. Paul
MPCA VIC Project Number VP23530
MPCA PBP Site ID Number PB3682
PIN 05-117-21-13-0016 & 05-117-21-13-0015
Underground Storage Tank Removal Environmental Contingency Plan Approval

Dear Mr. Pinter:

The Minnesota Pollution Control Agency (MPCA) Petroleum Brownfields (PB) and Voluntary Investigation and Cleanup (VIC) Programs staff have reviewed the "Environmental Contingency Plan-Underground Storage Tank Removal" (UST ECP), dated March 9, 2013, for the Ford Twin Cities Plant site located at the address referenced above (the Site). The UST ECP was prepared and submitted on your behalf by Arcadis U.S., Inc. (Arcadis).

The UST ECP describes the screening and testing procedures that will be followed during removal of underground storage tanks (USTs) at the Site, including two spent solvent storage tanks (Feature 35) and several known or potential petroleum USTs.

The UST ECP is hereby approved subject to the following clarifications/modifications:

1. Please refer to MPCA Tank Compliance Rules and Regulations regarding regulated petroleum related USTs. If petroleum contamination is known or detected, please refer to MPCA Petroleum Remediation Program (PRP) guidance regarding sampling requirements.
2. As a correction to the waste solvent tank history described on page two, please note that removal of the four (not three) former solvent tanks and subsequent remediation and monitoring activities were conducted under the oversight of MPCA's Superfund/RCRA program (not PRP). The solvents stored in the former and current solvent USTs are not petroleum as defined by Minn. Statute 115C.
3. The UST ECP proposes to use a photoionization detector (PID) equipped with an 11.7 electron volt (eV) lamp. The PID should be calibrated twice daily (morning and early afternoon) to ensure it is operating properly.
4. For soils within the solvent UST area, if PID readings are elevated above background concentration (as opposed to 10 ppm), the soil shall be considered potentially-impacted and should be sampled for VOCs.

5. Since redevelopment activities will not occur at this Site for some time, typical soil reuse scenarios (e.g. placement under pavement, etc.) are not applicable at this time. Impacted soil shall not be stockpiled for future on-site reuse. Soil excavated from a tank basin can be replaced in the tank basin if it meets applicable criteria. For petroleum-impacted soil, refer to PRP Guidance Document 3-01 (Excavation of Petroleum Contaminated Soil and Tank Removal Sampling). For solvent-impacted soil, refer to the MPCA's Soil Leaching Values (for VOCs) and Soil Reference Values (for metals).

The MPCA VIC and PB Programs require an Environmental Contingency Plan for the entire Site prior to demolition or removal of building slabs and additional sub-grade features or structures. It is unclear whether this UST ECP is meant to include removal of Feature 46 (the sump associated with the former solvent UST basin) and Feature 37 (underground piping related to the solvent USTs). Please let VIC staff know whether these features are within the current scope of work, or if they will be addressed under the pending site-wide ECP. VIC staff would like to be notified about the schedule for demolition and removal of Features 46 and 37.

An implementation report describing the condition of the solvent USTs, screening and sampling results, soil disposal, imported soils, dewatering activities, etc. shall be prepared and submitted to the MPCA within six months following removal of the solvent USTs. If the implementation report cannot be submitted within that timeframe, please notify the MPCA VIC staff of the status of the project. Reporting of the petroleum tank removals should follow PRP guidance.

Approval of this plan does not suggest that any of the costs incurred will be eligible for reimbursement from the Petro Board. Please be advised that the determination made in this letter is subject to the disclaimers found in Attachment A and is contingent on compliance with the terms and conditions set forth herein. If you have any questions on the above, please contact Shanna Schmitt at 651-757-2697 shanna.schmitt@state.mn.us or Amy Hadiaris at 651-757-2402 or amy.hadiaris@state.mn.us.

Sincerely,

Shanna Schmitt, P.G.
Project Manager/Hydrogeologist
Site Remediation and Redevelopment Section
Remediation Division

SS:AH:jmp

Attachment

cc: Angharad Pagnon, ARCADIS U.S., Inc.
John Meyers, Ford Twin Cities Assembly Plant (email only)
Merritt Clapp-Smith, City of St. Paul (email only)

ATTACHMENT A
DISCLAIMERS
FORD TWIN CITIES PLANT
MPCA PROJECT NUMBER VP23530
MPCA PBP PROJECT NUMBER PB3682

1. Reservation of Authorities

The Minnesota Pollution Control Agency (MPCA) Commissioner reserves the authority to take any appropriate actions with respect to any release, threatened release, or other conditions at the Site. The MPCA Commissioner also reserves the authority to take such actions if the voluntary party does not proceed in the manner described in this letter or if actions taken or omitted by the voluntary party with respect to the Site contribute to any release or threatened release, or create an imminent and substantial danger to public health and welfare.

2. No MPCA Assumption of Liability

The MPCA, its Commissioner and staff do not assume any liability for any release, threatened release or other conditions at the Site or for any actions taken or omitted by the voluntary party with regard to the release, threatened release, or other conditions at the Site, whether the actions taken or omitted are in accordance with this letter or otherwise.

3. Letter Based on Current Information

All statements, conclusions and representations in this letter are based upon information known to the MPCA Commissioner and staff at the time this letter was issued. The MPCA Commissioner and staff reserve the authority to modify or rescind any such statement, conclusion or representation and to take any appropriate action under his authority if the MPCA Commissioner or staff acquires information after issuance of this letter that provides a basis for such modification or action.

4. Disclaimer Regarding Use or Development of the Property

The MPCA, its Commissioner and staff do not warrant that the Site is suitable or appropriate for any particular use.

5. Disclaimer Regarding Investigative or Response Action at the Property

Nothing in this letter is intended to authorize any response action under Minn. Stat. § 115B.17, subd. 12.

Appendix B

Photograph Log

Appendix B
Ford Twin Cities Assembly Plant, Saint Paul, MN
Unleaded Gasoline UST Removal Report
Photographic Log – July 29, 2013

Photo: 1 **Orientation: North** **Description: Access to unleaded gasoline USTs, dock, and unleaded gasoline dispenser on the west side of the Warehouse Building (next to back entrance of the Ford TCAP plant).**	

Photo: 2 **Orientation: North** **Description: Earthen berm (west [left] and east [right] unleaded gasoline USTs), dock (right) and dispenser house (back right).**	

Appendix B
Ford Twin Cities Assembly Plant, Saint Paul, MN
Unleaded Gasoline UST Removal Report
Photographic Log – July 29, 2013

Photo: 3 **Orientation: North** **Description: Earthen berm (back left), dock (center), dispenser house (back right), and dispenser (right).**	

Photo: 4 **Orientation: (NA)** **Description: Closeup of access and transfer valves for east unleaded gasoline UST.**	

Appendix B
Ford Twin Cities Assembly Plant, Saint Paul, MN
Unleaded Gasoline UST Removal Report
Photographic Log – July 29, 2013

Photo: 5 **Orientation: (NA)** **Description: Closeup of access and transfer valves for west unleaded gasoline UST.**	

Photo: 6 **Orientation: North** **Description: Beginning of soil removal surrounding east unleaded gasoline UST.**	

Photo: 7 **Orientation: Northeast** **Description: Removal of east unleaded gasoline UST; steel double-walled STI-P^3 construction. Visible scratches/damage due to removal via excavator.**	

Photo: 8 **Orientation: Northeast** **Description: Close-up of west wall of east unleaded gasoline UST. Minimal to no damage and erosion visible.**	

Photo: 9 **Orientation: North** **Description: Further excavation of east unleaded gasoline UST. Exposure of south and west wall for east unleaded gasoline UST. Minimal to no erosion visible along outer double-wall.**	

Photo: 10 **Orientation: North** **Description: Minimal to no erosion visible along the south and east side of the east unleaded gasoline UST.**	

Photo: 11 **Orientation: North** **Description: Close-up of soil from earthen berm along the east wall of east unleaded gasoline UST.**	

Photo: 12 **Orientation: Northwest** **Description: West (left) and east (right) unleaded gasoline USTs with earthen berm partially removed. Minimal erosion visible along outer double-walls.**	

Photo: 13 **Orientation: Northeast** **Description: Removal of east unleaded gasoline UST from earthen berm and basin.**	

Photo: 14 **Orientation: Northeast** **Description: Removal of east unleaded gasoline UST from earthen berm and basin; damage to UST from use of backhoe.**	

Photo: 15 **Orientation: East** **Description: Close-up of west and south walls and base of east unleaded gasoline UST.**	

Photo: 16 **Orientation: Southeast** **Description: North wall of east unleaded gasoline UST after removal.**	

Photo: 17 **Orientation: East** **Description: Base of east unleaded gasoline UST after removal; damage observed during removal of UST with backhoe.**	

Photo: 18 **Orientation: North** **Description: West wall of east unleaded gasoline UST after removal.**	

Photo: 19 **Orientation: Northeast** **Description: Base, west and south walls of west unleaded gasoline UST during removal.**	

Photo: 20 **Orientation: Northeast** **Description: Northern west wall of west unleaded gasoline UST during removal.**	

Photo: 21 **Orientation: South** **Description: North wall of west unleaded gasoline UST during removal.**	

Photo: 22 **Orientation: Northwest** **Description: East wall of west unleaded gasoline UST during removal; scratches/damage occurred during removal from backhoe.**	

Photo: 23 **Orientation: Northwest** **Description: Northern east wall of west unleaded gasoline UST during removal; scratches/damage occurred during removal from backhoe.**	

Photo: 24 **Orientation: Northwest** **Description: Southern wall of west unleaded gasoline UST during removal.**	

Photo: 25 **Orientation: Northwest** **Description: Base of west unleaded gasoline UST during removal.**	

Photo: 26 **Orientation: Northwest** **Description: Excavation of soil to access concrete pad for USTs; active fire line between excavation and wall.**	

Photo: 27 **Orientation: Northwest** **Description: Access to top of concrete pad following soil removal.**	

Photo: 28 **Orientation: Northeast** **Description: Continued excavation to expose concrete pad (45 feet by 35 feet); excavation of northeast corner of concrete pad.**	

Photo: 29 **Orientation: East** **Description: Excavation of soil from east end of concrete pad.**	

Photo: 30 **Orientation: East** **Description: Close-up of northeast corner of concrete pad and earthen berm/backfill soil stratigraphy.**	

Appendix C

Laboratory Analytical Reports

ANALYTICAL REPORT

Job Number: 240-27414-1

Job Description: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
430 1st Avenue, North
Suite 720
Minneapolis, MN 55401

Attention: Ms. Angharad Pagnon

Approved for release.
Denise Pohl
Project Manager II
8/13/2013 10:20 AM

Denise Pohl, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9789
denise.pohl@testamericainc.com
08/13/2013

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-27414-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.2 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GBNE_13(20130729) (240-27414-1), GBSE_13(20130729) (240-27414-2), GBSW_13(20130729) (240-27414-3), GBNW_13(20130729) (240-27414-4) and MB-001(20130729) (240-27414-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 08/01/2013 and analyzed on 08/02/2013.

Methylene Chloride was detected in method blank MB 240-95842/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Several analytes were detected in method blank MB 240-95842/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Acetone and Methylene Chloride failed the recovery criteria high for MRL 240-96012/7. Refer to the QC report for details.

Method(s) 5035: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 96395. A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were provided.

Method(s) 8260B: The MRL (MRL 240-96012/7) had two compounds above 40 percent which are common lab contaminates, Acetone and Methylene Chloride. Because these are common lab contaminates the samples were analyzed.

Method(s) 8260B: Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for prep. batch 95842 on these samples GBNE_13(20130729) (240-27414-1), GBNW_13(20130729) (240-27414-4), GBSE_13(20130729) (240-27414-2), GBSW_13(20130729) (240-27414-3), MB-001(20130729) (240-27414-5).

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

WISCONSIN GRO

Samples GBNE_13(20130729) (240-27414-1), GBSE_13(20130729) (240-27414-2), GBSW_13(20130729) (240-27414-3) and GBNW_13(20130729) (240-27414-4) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were prepared and analyzed on 08/06/2013.

Method(s) WI-GRO: A Trip Blank was not provided for the TPH GRO as required by the WI GRO method. Data is reported.

No other difficulties were encountered during the WI-GRO analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples GBNE_13(20130729) (240-27414-1), GBSE_13(20130729) (240-27414-2), GBSW_13(20130729) (240-27414-3) and GBNW_13(20130729) (240-27414-4) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/01/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-27414-1	**GBNE_13(20130729)**					
2-Butanone (MEK)		54	J	1100	ug/Kg	8260B
Carbon disulfide		63	J B	280	ug/Kg	8260B
Methylene Chloride		600	B	280	ug/Kg	8260B
m-Xylene & p-Xylene		7.9	J B	560	ug/Kg	8260B
Naphthalene		10	J B	280	ug/Kg	8260B
Tetrahydrofuran		200	J B	1100	ug/Kg	8260B
Toluene		97	J B	280	ug/Kg	8260B
Percent Solids		94		0.10	%	Moisture
Percent Moisture		6.2		0.10	%	Moisture
240-27414-2	**GBSE_13(20130729)**					
Carbon disulfide		43	J B	270	ug/Kg	8260B
Methyl acetate		110	J	540	ug/Kg	8260B
Methylene Chloride		490	B	270	ug/Kg	8260B
m-Xylene & p-Xylene		10	J B	540	ug/Kg	8260B
Naphthalene		22	J B	270	ug/Kg	8260B
Tetrahydrofuran		160	J B	1100	ug/Kg	8260B
Toluene		66	J B	270	ug/Kg	8260B
Percent Solids		95		0.10	%	Moisture
Percent Moisture		4.5		0.10	%	Moisture
240-27414-3	**GBSW_13(20130729)**					
Carbon disulfide		46	J B	230	ug/Kg	8260B
Methyl acetate		49	J	460	ug/Kg	8260B
Methylene Chloride		330	B	230	ug/Kg	8260B
m-Xylene & p-Xylene		6.0	J B	460	ug/Kg	8260B
Naphthalene		12	J B	230	ug/Kg	8260B
Styrene		5.9	J B	230	ug/Kg	8260B
Tetrahydrofuran		140	J B	910	ug/Kg	8260B
Toluene		55	J B	230	ug/Kg	8260B
Percent Solids		98		0.10	%	Moisture
Percent Moisture		1.6		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-27414-4	**GBNW_13(20130729)**					
Carbon disulfide		53	J B	260	ug/Kg	8260B
Methyl acetate		29	J	530	ug/Kg	8260B
Methylene Chloride		550	B	260	ug/Kg	8260B
m-Xylene & p-Xylene		6.6	J B	530	ug/Kg	8260B
Naphthalene		10	J B	260	ug/Kg	8260B
Styrene		6.4	J B	260	ug/Kg	8260B
Tetrahydrofuran		200	J B	1100	ug/Kg	8260B
Toluene		83	J B	260	ug/Kg	8260B
Percent Solids		97		0.10	%	Moisture
Percent Moisture		3.0		0.10	%	Moisture
240-27414-5	**MB-001(20130729)**					
Carbon disulfide		65	J B	250	ug/Kg	8260B
Methylene Chloride		480	B	250	ug/Kg	8260B
m-Xylene & p-Xylene		9.5	J B	500	ug/Kg	8260B
Naphthalene		7.9	J B	250	ug/Kg	8260B
Styrene		9.1	J B	250	ug/Kg	8260B
Tetrahydrofuran		220	J B	1000	ug/Kg	8260B
Toluene		110	J B	250	ug/Kg	8260B

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B	
Closed System Purge and Trap	TAL CAN		SW846 5035
Wisconsin - Gasoline Range Organics (GC)	TAL CAN	WI-GRO WI-GRO	
Closed System Purge and Trap	TAL CAN		SW846 5035
Percent Moisture	TAL CAN	EPA Moisture	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method	Analyst	Analyst ID
SW846 8260B	Macenczak, Steven	SAM
WI-GRO WI-GRO	Bosworth, Heather M	HMB
EPA Moisture	Woodward, Bruce	BLW

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-27414-1	GBNE_13(20130729)	Solid	07/29/2013 1510	07/31/2013 0915
240-27414-2	GBSE_13(20130729)	Solid	07/29/2013 1515	07/31/2013 0915
240-27414-3	GBSW_13(20130729)	Solid	07/29/2013 1520	07/31/2013 0915
240-27414-4	GBNW_13(20130729)	Solid	07/29/2013 1525	07/31/2013 0915
240-27414-5	MB-001(20130729)	Solid	07/29/2013 0000	07/31/2013 0915

SAMPLE RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNE_13(20130729)**

Lab Sample ID: 240-27414-1 Date Sampled: 07/29/2013 1510
Client Matrix: Solid % Moisture: 6.2 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144026.D
Dilution:	1.0			Initial Weight/Volume:	9.452 g
Analysis Date:	08/02/2013 1602			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		190	1100
Allyl chloride		ND		60	560
Benzene		ND		14	280
Bromobenzene		ND		15	280
Bromochloromethane		ND		15	280
Bromodichloromethane		ND		11	280
Bromoform		ND		21	280
Bromomethane		ND		33	280
2-Butanone (MEK)		54	J	49	1100
Carbon disulfide		63	J B	14	280
Carbon tetrachloride		ND		7.2	280
Chlorobenzene		ND		7.2	280
Chlorodibromomethane		ND		14	280
Chloroethane		ND		69	280
Chloroform		ND		9.9	280
Chloromethane		ND		16	280
2-Chlorotoluene		ND		10	280
4-Chlorotoluene		ND		11	280
cis-1,2-Dichloroethene		ND		7.8	280
cis-1,3-Dichloropropene		ND		8.9	280
Cyclohexane		ND		45	560
1,2-Dibromo-3-Chloropropane		ND		56	560
1,2-Dibromoethane		ND		11	280
Dibromomethane		ND		16	280
1,2-Dichlorobenzene		ND		9.7	280
1,3-Dichlorobenzene		ND		5.4	280
1,4-Dichlorobenzene		ND		9.0	280
Dichlorodifluoromethane		ND		18	280
1,1-Dichloroethane		ND		19	280
1,2-Dichloroethane		ND		11	280
1,1-Dichloroethene		ND		20	280
Dichlorofluoromethane		ND		28	560
1,2-Dichloropropane		ND		9.3	280
1,3-Dichloropropane		ND		25	280
2,2-Dichloropropane		ND		26	280
1,1-Dichloropropene		ND		11	280
Ethylbenzene		ND		6.1	280
Ethyl ether		ND		17	560
Hexachlorobutadiene		ND		16	280
2-Hexanone		ND		23	1100
Isopropylbenzene		ND		7.3	280
Methyl acetate		ND		28	560
Methylcyclohexane		ND		14	560
Methylene Chloride		600	B	87	280
4-Methyl-2-pentanone (MIBK)		ND		54	1100
Methyl tert butyl ether		ND		8.0	280

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNE_13(20130729)**

Lab Sample ID: 240-27414-1 Date Sampled: 07/29/2013 1510
Client Matrix: Solid % Moisture: 6.2 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144026.D
Dilution:	1.0			Initial Weight/Volume:	9.452 g
Analysis Date:	08/02/2013 1602			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		7.9	J B	7.0	560
Naphthalene		10	J B	7.6	280
n-Butylbenzene		ND		9.0	280
N-Propylbenzene		ND		16	280
o-Xylene		ND		9.6	280
p-Isopropyltoluene		ND		5.4	280
sec-Butylbenzene		ND		5.3	280
Styrene		ND		6.3	280
tert-Butylbenzene		ND		7.3	280
1,1,1,2-Tetrachloroethane		ND		10	280
1,1,2,2-Tetrachloroethane		ND		10	280
Tetrachloroethene		ND		14	280
Tetrahydrofuran		200	J B	55	1100
Toluene		97	J B	19	280
trans-1,2-Dichloroethene		ND		10	280
trans-1,3-Dichloropropene		ND		23	280
1,2,3-Trichlorobenzene		ND		11	280
1,2,4-Trichlorobenzene		ND		8.2	280
1,1,1-Trichloroethane		ND		24	280
1,1,2-Trichloroethane		ND		14	280
Trichloroethene		ND		11	280
Trichlorofluoromethane		ND		18	280
1,2,3-Trichloropropane		ND		24	280
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		44	280
1,2,4-Trimethylbenzene		ND		5.6	280
1,3,5-Trimethylbenzene		ND		6.5	280
Vinyl chloride		ND		20	280

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		26 - 141
Dibromofluoromethane (Surr)	109		30 - 122
1,2-Dichloroethane-d4 (Surr)	121		39 - 128
Toluene-d8 (Surr)	109		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSE_13(20130729)**

Lab Sample ID: 240-27414-2 Date Sampled: 07/29/2013 1515
Client Matrix: Solid % Moisture: 4.5 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144027.D
Dilution:	1.0			Initial Weight/Volume:	9.706 g
Analysis Date:	08/02/2013 1623			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		180	1100
Allyl chloride		ND		57	540
Benzene		ND		13	270
Bromobenzene		ND		14	270
Bromochloromethane		ND		14	270
Bromodichloromethane		ND		11	270
Bromoform		ND		21	270
Bromomethane		ND		31	270
2-Butanone (MEK)		ND		46	1100
Carbon disulfide		43	J B	13	270
Carbon tetrachloride		ND		6.9	270
Chlorobenzene		ND		6.9	270
Chlorodibromomethane		ND		13	270
Chloroethane		ND		66	270
Chloroform		ND		9.5	270
Chloromethane		ND		15	270
2-Chlorotoluene		ND		9.7	270
4-Chlorotoluene		ND		11	270
cis-1,2-Dichloroethene		ND		7.4	270
cis-1,3-Dichloropropene		ND		8.5	270
Cyclohexane		ND		43	540
1,2-Dibromo-3-Chloropropane		ND		54	540
1,2-Dibromoethane		ND		11	270
Dibromomethane		ND		15	270
1,2-Dichlorobenzene		ND		9.3	270
1,3-Dichlorobenzene		ND		5.2	270
1,4-Dichlorobenzene		ND		8.6	270
Dichlorodifluoromethane		ND		17	270
1,1-Dichloroethane		ND		18	270
1,2-Dichloroethane		ND		11	270
1,1-Dichloroethene		ND		19	270
Dichlorofluoromethane		ND		27	540
1,2-Dichloropropane		ND		8.8	270
1,3-Dichloropropane		ND		24	270
2,2-Dichloropropane		ND		25	270
1,1-Dichloropropene		ND		11	270
Ethylbenzene		ND		5.8	270
Ethyl ether		ND		16	540
Hexachlorobutadiene		ND		15	270
2-Hexanone		ND		22	1100
Isopropylbenzene		ND		7.0	270
Methyl acetate		110	J	27	540
Methylcyclohexane		ND		13	540
Methylene Chloride		490	B	83	270
4-Methyl-2-pentanone (MIBK)		ND		52	1100
Methyl tert butyl ether		ND		7.7	270

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSE_13(20130729)**

Lab Sample ID: 240-27414-2 Date Sampled: 07/29/2013 1515
Client Matrix: Solid % Moisture: 4.5 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144027.D
Dilution:	1.0			Initial Weight/Volume:	9.706 g
Analysis Date:	08/02/2013 1623			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		10	J B	6.7	540
Naphthalene		22	J B	7.2	270
n-Butylbenzene		ND		8.6	270
N-Propylbenzene		ND		15	270
o-Xylene		ND		9.2	270
p-Isopropyltoluene		ND		5.2	270
sec-Butylbenzene		ND		5.1	270
Styrene		ND		6.0	270
tert-Butylbenzene		ND		7.0	270
1,1,1,2-Tetrachloroethane		ND		9.8	270
1,1,2,2-Tetrachloroethane		ND		9.6	270
Tetrachloroethene		ND		13	270
Tetrahydrofuran		160	J B	53	1100
Toluene		66	J B	18	270
trans-1,2-Dichloroethene		ND		9.9	270
trans-1,3-Dichloropropene		ND		22	270
1,2,3-Trichlorobenzene		ND		11	270
1,2,4-Trichlorobenzene		ND		7.9	270
1,1,1-Trichloroethane		ND		23	270
1,1,2-Trichloroethane		ND		13	270
Trichloroethene		ND		10	270
Trichlorofluoromethane		ND		17	270
1,2,3-Trichloropropane		ND		23	270
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		42	270
1,2,4-Trimethylbenzene		ND		5.4	270
1,3,5-Trimethylbenzene		ND		6.3	270
Vinyl chloride		ND		19	270

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		26 - 141
Dibromofluoromethane (Surr)	107		30 - 122
1,2-Dichloroethane-d4 (Surr)	116		39 - 128
Toluene-d8 (Surr)	108		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSW_13(20130729)**

Lab Sample ID: 240-27414-3 Date Sampled: 07/29/2013 1520
Client Matrix: Solid % Moisture: 1.6 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144028.D
Dilution:	1.0			Initial Weight/Volume:	11.15 g
Analysis Date:	08/02/2013 1645			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		150	910
Allyl chloride		ND		48	460
Benzene		ND		11	230
Bromobenzene		ND		12	230
Bromochloromethane		ND		12	230
Bromodichloromethane		ND		9.0	230
Bromoform		ND		17	230
Bromomethane		ND		26	230
2-Butanone (MEK)		ND		39	910
Carbon disulfide		46	J B	11	230
Carbon tetrachloride		ND		5.8	230
Chlorobenzene		ND		5.8	230
Chlorodibromomethane		ND		11	230
Chloroethane		ND		56	230
Chloroform		ND		8.0	230
Chloromethane		ND		13	230
2-Chlorotoluene		ND		8.2	230
4-Chlorotoluene		ND		9.0	230
cis-1,2-Dichloroethene		ND		6.3	230
cis-1,3-Dichloropropene		ND		7.2	230
Cyclohexane		ND		36	460
1,2-Dibromo-3-Chloropropane		ND		46	460
1,2-Dibromoethane		ND		9.1	230
Dibromomethane		ND		13	230
1,2-Dichlorobenzene		ND		7.8	230
1,3-Dichlorobenzene		ND		4.4	230
1,4-Dichlorobenzene		ND		7.3	230
Dichlorodifluoromethane		ND		15	230
1,1-Dichloroethane		ND		15	230
1,2-Dichloroethane		ND		9.1	230
1,1-Dichloroethene		ND		16	230
Dichlorofluoromethane		ND		23	460
1,2-Dichloropropane		ND		7.5	230
1,3-Dichloropropane		ND		20	230
2,2-Dichloropropane		ND		21	230
1,1-Dichloropropene		ND		9.1	230
Ethylbenzene		ND		4.9	230
Ethyl ether		ND		14	460
Hexachlorobutadiene		ND		13	230
2-Hexanone		ND		18	910
Isopropylbenzene		ND		5.9	230
Methyl acetate		49	J	23	460
Methylcyclohexane		ND		11	460
Methylene Chloride		330	B	70	230
4-Methyl-2-pentanone (MIBK)		ND		44	910
Methyl tert butyl ether		ND		6.5	230

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSW_13(20130729)**

Lab Sample ID: 240-27414-3 Date Sampled: 07/29/2013 1520
Client Matrix: Solid % Moisture: 1.6 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144028.D
Dilution:	1.0			Initial Weight/Volume:	11.15 g
Analysis Date:	08/02/2013 1645			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		6.0	J B	5.7	460
Naphthalene		12	J B	6.1	230
n-Butylbenzene		ND		7.3	230
N-Propylbenzene		ND		13	230
o-Xylene		ND		7.7	230
p-Isopropyltoluene		ND		4.4	230
sec-Butylbenzene		ND		4.3	230
Styrene		5.9	J B	5.1	230
tert-Butylbenzene		ND		5.9	230
1,1,1,2-Tetrachloroethane		ND		8.3	230
1,1,2,2-Tetrachloroethane		ND		8.1	230
Tetrachloroethene		ND		11	230
Tetrahydrofuran		140	J B	45	910
Toluene		55	J B	15	230
trans-1,2-Dichloroethene		ND		8.4	230
trans-1,3-Dichloropropene		ND		18	230
1,2,3-Trichlorobenzene		ND		9.1	230
1,2,4-Trichlorobenzene		ND		6.7	230
1,1,1-Trichloroethane		ND		19	230
1,1,2-Trichloroethane		ND		11	230
Trichloroethene		ND		8.8	230
Trichlorofluoromethane		ND		15	230
1,2,3-Trichloropropane		ND		19	230
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		36	230
1,2,4-Trimethylbenzene		ND		4.6	230
1,3,5-Trimethylbenzene		ND		5.3	230
Vinyl chloride		ND		16	230

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		26 - 141
Dibromofluoromethane (Surr)	108		30 - 122
1,2-Dichloroethane-d4 (Surr)	118		39 - 128
Toluene-d8 (Surr)	107		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNW_13(20130729)**

Lab Sample ID: 240-27414-4 Date Sampled: 07/29/2013 1525
Client Matrix: Solid % Moisture: 3.0 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144029.D
Dilution:	1.0			Initial Weight/Volume:	9.736 g
Analysis Date:	08/02/2013 1706			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		180	1100
Allyl chloride		ND		56	530
Benzene		ND		13	260
Bromobenzene		ND		14	260
Bromochloromethane		ND		14	260
Bromodichloromethane		ND		10	260
Bromoform		ND		20	260
Bromomethane		ND		31	260
2-Butanone (MEK)		ND		46	1100
Carbon disulfide		53	J B	13	260
Carbon tetrachloride		ND		6.8	260
Chlorobenzene		ND		6.8	260
Chlorodibromomethane		ND		13	260
Chloroethane		ND		65	260
Chloroform		ND		9.3	260
Chloromethane		ND		15	260
2-Chlorotoluene		ND		9.5	260
4-Chlorotoluene		ND		10	260
cis-1,2-Dichloroethene		ND		7.3	260
cis-1,3-Dichloropropene		ND		8.4	260
Cyclohexane		ND		42	530
1,2-Dibromo-3-Chloropropane		ND		53	530
1,2-Dibromoethane		ND		11	260
Dibromomethane		ND		15	260
1,2-Dichlorobenzene		ND		9.1	260
1,3-Dichlorobenzene		ND		5.1	260
1,4-Dichlorobenzene		ND		8.5	260
Dichlorodifluoromethane		ND		17	260
1,1-Dichloroethane		ND		18	260
1,2-Dichloroethane		ND		11	260
1,1-Dichloroethene		ND		19	260
Dichlorofluoromethane		ND		26	530
1,2-Dichloropropane		ND		8.7	260
1,3-Dichloropropane		ND		23	260
2,2-Dichloropropane		ND		24	260
1,1-Dichloropropene		ND		11	260
Ethylbenzene		ND		5.7	260
Ethyl ether		ND		16	530
Hexachlorobutadiene		ND		15	260
2-Hexanone		ND		21	1100
Isopropylbenzene		ND		6.9	260
Methyl acetate		29	J	26	530
Methylcyclohexane		ND		13	530
Methylene Chloride		550	B	82	260
4-Methyl-2-pentanone (MIBK)		ND		51	1100
Methyl tert butyl ether		ND		7.5	260

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNW_13(20130729)**

Lab Sample ID: 240-27414-4 Date Sampled: 07/29/2013 1525
Client Matrix: Solid % Moisture: 3.0 Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144029.D
Dilution:	1.0			Initial Weight/Volume:	9.736 g
Analysis Date:	08/02/2013 1706			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		6.6	J B	6.6	530
Naphthalene		10	J B	7.1	260
n-Butylbenzene		ND		8.5	260
N-Propylbenzene		ND		15	260
o-Xylene		ND		9.0	260
p-Isopropyltoluene		ND		5.1	260
sec-Butylbenzene		ND		5.0	260
Styrene		6.4	J B	5.9	260
tert-Butylbenzene		ND		6.9	260
1,1,1,2-Tetrachloroethane		ND		9.6	260
1,1,2,2-Tetrachloroethane		ND		9.4	260
Tetrachloroethene		ND		13	260
Tetrahydrofuran		200	J B	52	1100
Toluene		83	J B	18	260
trans-1,2-Dichloroethene		ND		9.7	260
trans-1,3-Dichloropropene		ND		21	260
1,2,3-Trichlorobenzene		ND		11	260
1,2,4-Trichlorobenzene		ND		7.7	260
1,1,1-Trichloroethane		ND		22	260
1,1,2-Trichloroethane		ND		13	260
Trichloroethene		ND		10	260
Trichlorofluoromethane		ND		17	260
1,2,3-Trichloropropane		ND		22	260
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		41	260
1,2,4-Trimethylbenzene		ND		5.3	260
1,3,5-Trimethylbenzene		ND		6.1	260
Vinyl chloride		ND		19	260

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		26 - 141
Dibromofluoromethane (Surr)	111		30 - 122
1,2-Dichloroethane-d4 (Surr)	120		39 - 128
Toluene-d8 (Surr)	111		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **MB-001(20130729)**

Lab Sample ID: 240-27414-5 Date Sampled: 07/29/2013 0000
Client Matrix: Solid Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144030.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Analysis Date:	08/02/2013 1728			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		170	1000
Allyl chloride		ND		53	500
Benzene		ND		12	250
Bromobenzene		ND		13	250
Bromochloromethane		ND		13	250
Bromodichloromethane		ND		9.9	250
Bromoform		ND		19	250
Bromomethane		ND		29	250
2-Butanone (MEK)		ND		43	1000
Carbon disulfide		65	J B	12	250
Carbon tetrachloride		ND		6.4	250
Chlorobenzene		ND		6.4	250
Chlorodibromomethane		ND		12	250
Chloroethane		ND		61	250
Chloroform		ND		8.8	250
Chloromethane		ND		14	250
2-Chlorotoluene		ND		9.0	250
4-Chlorotoluene		ND		9.9	250
cis-1,2-Dichloroethene		ND		6.9	250
cis-1,3-Dichloropropene		ND		7.9	250
Cyclohexane		ND		40	500
1,2-Dibromo-3-Chloropropane		ND		50	500
1,2-Dibromoethane		ND		10	250
Dibromomethane		ND		14	250
1,2-Dichlorobenzene		ND		8.6	250
1,3-Dichlorobenzene		ND		4.8	250
1,4-Dichlorobenzene		ND		8.0	250
Dichlorodifluoromethane		ND		16	250
1,1-Dichloroethane		ND		17	250
1,2-Dichloroethane		ND		10	250
1,1-Dichloroethene		ND		18	250
Dichlorofluoromethane		ND		25	500
1,2-Dichloropropane		ND		8.2	250
1,3-Dichloropropane		ND		22	250
2,2-Dichloropropane		ND		23	250
1,1-Dichloropropene		ND		10	250
Ethylbenzene		ND		5.4	250
Ethyl ether		ND		15	500
Hexachlorobutadiene		ND		14	250
2-Hexanone		ND		20	1000
Isopropylbenzene		ND		6.5	250
Methyl acetate		ND		25	500
Methylcyclohexane		ND		12	500
Methylene Chloride		480	B	77	250
4-Methyl-2-pentanone (MIBK)		ND		48	1000
Methyl tert butyl ether		ND		7.1	250

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **MB-001(20130729)**

Lab Sample ID: 240-27414-5 Date Sampled: 07/29/2013 0000
Client Matrix: Solid Date Received: 07/31/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-95842	Lab File ID:	144030.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Analysis Date:	08/02/2013 1728			Final Weight/Volume:	10 mL
Prep Date:	08/01/2013 1137				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		9.5	J B	6.2	500
Naphthalene		7.9	J B	6.7	250
n-Butylbenzene		ND		8.0	250
N-Propylbenzene		ND		14	250
o-Xylene		ND		8.5	250
p-Isopropyltoluene		ND		4.8	250
sec-Butylbenzene		ND		4.7	250
Styrene		9.1	J B	5.6	250
tert-Butylbenzene		ND		6.5	250
1,1,1,2-Tetrachloroethane		ND		9.1	250
1,1,2,2-Tetrachloroethane		ND		8.9	250
Tetrachloroethene		ND		12	250
Tetrahydrofuran		220	J B	49	1000
Toluene		110	J B	17	250
trans-1,2-Dichloroethene		ND		9.2	250
trans-1,3-Dichloropropene		ND		20	250
1,2,3-Trichlorobenzene		ND		10	250
1,2,4-Trichlorobenzene		ND		7.3	250
1,1,1-Trichloroethane		ND		21	250
1,1,2-Trichloroethane		ND		12	250
Trichloroethene		ND		9.7	250
Trichlorofluoromethane		ND		16	250
1,2,3-Trichloropropane		ND		21	250
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		39	250
1,2,4-Trimethylbenzene		ND		5.0	250
1,3,5-Trimethylbenzene		ND		5.8	250
Vinyl chloride		ND		18	250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		26 - 141
Dibromofluoromethane (Surr)	112		30 - 122
1,2-Dichloroethane-d4 (Surr)	126		39 - 128
Toluene-d8 (Surr)	111		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNE_13(20130729)**

Lab Sample ID: 240-27414-1 Date Sampled: 07/29/2013 1510
Client Matrix: Solid % Moisture: 6.2 Date Received: 07/31/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080608.D
Dilution:	1.0			Initial Weight/Volume:	9.733 g
Analysis Date:	08/06/2013 1624			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		ND		0.35	11

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSE_13(20130729)**

Lab Sample ID: 240-27414-2 Date Sampled: 07/29/2013 1515
Client Matrix: Solid % Moisture: 4.5 Date Received: 07/31/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080609.D
Dilution:	1.0			Initial Weight/Volume:	10.167 g
Analysis Date:	08/06/2013 1704			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		ND		0.33	10

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBSW_13(20130729)**

Lab Sample ID: 240-27414-3 Date Sampled: 07/29/2013 1520
Client Matrix: Solid % Moisture: 1.6 Date Received: 07/31/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080610.D
Dilution:	1.0			Initial Weight/Volume:	9.945 g
Analysis Date:	08/06/2013 1743			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		ND		0.33	10

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Client Sample ID: **GBNW_13(20130729)**

Lab Sample ID: 240-27414-4 Date Sampled: 07/29/2013 1525
Client Matrix: Solid % Moisture: 3.0 Date Received: 07/31/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080611.D
Dilution:	1.0			Initial Weight/Volume:	10.269 g
Analysis Date:	08/06/2013 1821			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		ND		0.32	10

General Chemistry

Client Sample ID: **GBNE_13(20130729)**

Lab Sample ID: 240-27414-1 Date Sampled: 07/29/2013 1510

Client Matrix: Solid Date Received: 07/31/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	94		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N
Percent Moisture	6.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N

General Chemistry

Client Sample ID: **GBSE_13(20130729)**

Lab Sample ID: 240-27414-2 Date Sampled: 07/29/2013 1515

Client Matrix: Solid Date Received: 07/31/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N
Percent Moisture	4.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N

General Chemistry

Client Sample ID: **GBSW_13(20130729)**

Lab Sample ID: 240-27414-3 Date Sampled: 07/29/2013 1520

Client Matrix: Solid Date Received: 07/31/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N
Percent Moisture	1.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N

General Chemistry

Client Sample ID: **GBNW_13(20130729)**

Lab Sample ID: 240-27414-4 Date Sampled: 07/29/2013 1525

Client Matrix: Solid Date Received: 07/31/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	97		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N
Percent Moisture	3.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-95885	Analysis Date: 08/01/2013 1626						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 240-95842					
LCS 240-95842/2-A	Lab Control Sample	T	Solid	5035	
MB 240-95842/1-A	Method Blank	T	Solid	5035	
240-27414-1	GBNE_13(20130729)	T	Solid	5035	
240-27414-2	GBSE_13(20130729)	T	Solid	5035	
240-27414-3	GBSW_13(20130729)	T	Solid	5035	
240-27414-4	GBNW_13(20130729)	T	Solid	5035	
240-27414-5	MB-001(20130729)	T	Solid	5035	
Analysis Batch:240-96012					
LCS 240-95842/2-A	Lab Control Sample	T	Solid	8260B	240-95842
MB 240-95842/1-A	Method Blank	T	Solid	8260B	240-95842
240-27414-1	GBNE_13(20130729)	T	Solid	8260B	240-95842
240-27414-2	GBSE_13(20130729)	T	Solid	8260B	240-95842
240-27414-3	GBSW_13(20130729)	T	Solid	8260B	240-95842
240-27414-4	GBNW_13(20130729)	T	Solid	8260B	240-95842
240-27414-5	MB-001(20130729)	T	Solid	8260B	240-95842

Report Basis
T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:240-96334					
LCS 240-96395/2-A	Lab Control Sample	T	Solid	WI-GRO	240-96395
LCSD 240-96395/9-A	Lab Control Sample Duplicate	T	Solid	WI-GRO	240-96395
MB 240-96395/1-A	Method Blank	T	Solid	WI-GRO	240-96395
240-27414-1	GBNE_13(20130729)	T	Solid	WI-GRO	240-96395
240-27414-2	GBSE_13(20130729)	T	Solid	WI-GRO	240-96395
240-27414-3	GBSW_13(20130729)	T	Solid	WI-GRO	240-96395
240-27414-4	GBNW_13(20130729)	T	Solid	WI-GRO	240-96395
Prep Batch: 240-96395					
LCS 240-96395/2-A	Lab Control Sample	T	Solid	5035	
LCSD 240-96395/9-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 240-96395/1-A	Method Blank	T	Solid	5035	
240-27414-1	GBNE_13(20130729)	T	Solid	5035	
240-27414-2	GBSE_13(20130729)	T	Solid	5035	
240-27414-3	GBSW_13(20130729)	T	Solid	5035	
240-27414-4	GBNW_13(20130729)	T	Solid	5035	

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-95885					
240-27384-A-13 DU	Duplicate	T	Solid	Moisture	
240-27414-1	GBNE_13(20130729)	T	Solid	Moisture	
240-27414-2	GBSE_13(20130729)	T	Solid	Moisture	
240-27414-3	GBSW_13(20130729)	T	Solid	Moisture	
240-27414-4	GBNW_13(20130729)	T	Solid	Moisture	

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
MRL 240-96012/7		86	95	99	94
MRL 240-96012/8		82	91	97	92

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	10-150
DBFM = Dibromofluoromethane (Surr)	10-150
DCA = 1,2-Dichloroethane-d4 (Surr)	10-150
TOL = Toluene-d8 (Surr)	10-150

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-27414-1	GBNE_13(20130729)	101	109	121	109
240-27414-2	GBSE_13(20130729)	101	107	116	108
240-27414-3	GBSW_13(20130729)	100	108	118	107
240-27414-4	GBNW_13(20130729)	99	111	120	111
240-27414-5	MB-001(20130729)	105	112	126	111
MB 240-95842/1-A		90	94	104	93
LCS 240-95842/2-A		93	97	103	96

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	26-141
DBFM = Dibromofluoromethane (Surr)	30-122
DCA = 1,2-Dichloroethane-d4 (Surr)	39-128
TOL = Toluene-d8 (Surr)	33-134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method Blank - Batch: 240-95842 **Method: 8260B**
Preparation: 5035

Lab Sample ID:	MB 240-95842/1-A	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-95842	Lab File ID:	144025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.00 g
Analysis Date:	08/02/2013 1541	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	08/01/2013 1137				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		170	1000
Allyl chloride	ND		53	500
Benzene	ND		12	250
Bromobenzene	ND		13	250
Bromochloromethane	ND		13	250
Bromodichloromethane	ND		9.9	250
Bromoform	ND		19	250
Bromomethane	ND		29	250
2-Butanone (MEK)	ND		43	1000
Carbon disulfide	62.7	J	12	250
Carbon tetrachloride	ND		6.4	250
Chlorobenzene	ND		6.4	250
Chlorodibromomethane	ND		12	250
Chloroethane	ND		61	250
Chloroform	ND		8.8	250
Chloromethane	ND		14	250
2-Chlorotoluene	ND		9.0	250
4-Chlorotoluene	ND		9.9	250
cis-1,2-Dichloroethene	ND		6.9	250
cis-1,3-Dichloropropene	ND		7.9	250
Cyclohexane	ND		40	500
1,2-Dibromo-3-Chloropropane	ND		50	500
1,2-Dibromoethane	ND		10	250
Dibromomethane	ND		14	250
1,2-Dichlorobenzene	ND		8.6	250
1,3-Dichlorobenzene	ND		4.8	250
1,4-Dichlorobenzene	ND		8.0	250
Dichlorodifluoromethane	ND		16	250
1,1-Dichloroethane	ND		17	250
1,2-Dichloroethane	ND		10	250
1,1-Dichloroethene	ND		18	250
Dichlorofluoromethane	ND		25	500
1,2-Dichloropropane	ND		8.2	250
1,3-Dichloropropane	ND		22	250
2,2-Dichloropropane	ND		23	250
1,1-Dichloropropene	ND		10	250
Ethylbenzene	ND		5.4	250
Ethyl ether	ND		15	500
Hexachlorobutadiene	ND		14	250
2-Hexanone	ND		20	1000
Isopropylbenzene	ND		6.5	250
Methyl acetate	ND		25	500
Methylcyclohexane	ND		12	500
Methylene Chloride	424		77	250
4-Methyl-2-pentanone (MIBK)	ND		48	1000

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method Blank - Batch: 240-95842 **Method: 8260B**
Preparation: 5035

Lab Sample ID:	MB 240-95842/1-A	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-95842	Lab File ID:	144025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.00 g
Analysis Date:	08/02/2013 1541	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	08/01/2013 1137				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Methyl tert butyl ether	ND		7.1	250
m-Xylene & p-Xylene	9.48	J	6.2	500
Naphthalene	11.9	J	6.7	250
n-Butylbenzene	ND		8.0	250
N-Propylbenzene	ND		14	250
o-Xylene	ND		8.5	250
p-Isopropyltoluene	ND		4.8	250
sec-Butylbenzene	ND		4.7	250
Styrene	6.62	J	5.6	250
tert-Butylbenzene	ND		6.5	250
1,1,1,2-Tetrachloroethane	ND		9.1	250
1,1,2,2-Tetrachloroethane	ND		8.9	250
Tetrachloroethene	ND		12	250
Tetrahydrofuran	188	J	49	1000
Toluene	87.4	J	17	250
trans-1,2-Dichloroethene	ND		9.2	250
trans-1,3-Dichloropropene	ND		20	250
1,2,3-Trichlorobenzene	ND		10	250
1,2,4-Trichlorobenzene	7.59	J	7.3	250
1,1,1-Trichloroethane	ND		21	250
1,1,2-Trichloroethane	ND		12	250
Trichloroethene	ND		9.7	250
Trichlorofluoromethane	ND		16	250
1,2,3-Trichloropropane	ND		21	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39	250
1,2,4-Trimethylbenzene	ND		5.0	250
1,3,5-Trimethylbenzene	ND		5.8	250
Vinyl chloride	ND		18	250

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	26 - 141
Dibromofluoromethane (Surr)	94	30 - 122
1,2-Dichloroethane-d4 (Surr)	104	39 - 128
Toluene-d8 (Surr)	93	33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Control Sample - Batch: 240-95842 **Method: 8260B**
Preparation: 5035

Lab Sample ID:	LCS 240-95842/2-A	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-95842	Lab File ID:	144024.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.00 g
Analysis Date:	08/02/2013 1519	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	08/01/2013 1137				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	1000	879	88	16 - 156	J
Benzene	500	485	97	70 - 117	
Bromobenzene	500	471	94	72 - 120	
Bromochloromethane	500	470	94	56 - 128	
Bromodichloromethane	500	417	83	28 - 123	
Bromoform	500	351	70	10 - 117	
Bromomethane	500	426	85	10 - 114	
2-Butanone (MEK)	1000	938	94	10 - 199	J
Carbon disulfide	500	405	81	10 - 132	
Carbon tetrachloride	500	489	98	29 - 118	
Chlorobenzene	500	487	97	71 - 116	
Chlorodibromomethane	500	400	80	22 - 113	
Chloroethane	500	419	84	10 - 120	
Chloroform	500	474	95	63 - 116	
Chloromethane	500	366	73	25 - 110	
2-Chlorotoluene	500	461	92	68 - 122	
4-Chlorotoluene	500	469	94	68 - 122	
cis-1,2-Dichloroethene	500	472	94	60 - 125	
cis-1,3-Dichloropropene	500	394	79	25 - 120	
Cyclohexane	500	489	98	40 - 120	J
1,2-Dibromo-3-Chloropropane	500	354	71	10 - 129	J
1,2-Dibromoethane	500	431	86	47 - 123	
Dibromomethane	500	483	97	68 - 118	
1,2-Dichlorobenzene	500	474	95	68 - 118	
1,3-Dichlorobenzene	500	483	97	66 - 121	
1,4-Dichlorobenzene	500	482	96	65 - 119	
Dichlorodifluoromethane	500	245	49	10 - 110	J
1,1-Dichloroethane	500	480	96	63 - 117	
1,2-Dichloroethane	500	517	103	68 - 119	
1,1-Dichloroethene	500	412	82	44 - 143	
1,2-Dichloropropane	500	476	95	73 - 113	
1,3-Dichloropropane	500	478	96	74 - 119	
2,2-Dichloropropane	500	398	80	25 - 123	
1,1-Dichloropropene	500	506	101	60 - 123	
Ethylbenzene	500	485	97	66 - 119	
Ethyl ether	500	524	105	70 - 130	
Hexachlorobutadiene	500	493	99	34 - 135	
2-Hexanone	1000	890	89	43 - 130	J
Isopropylbenzene	500	469	94	61 - 123	
Methyl acetate	500	640	128	44 - 173	
Methylcyclohexane	500	484	97	41 - 133	J

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Lab Control Sample - Batch: 240-95842

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 240-95842/2-A	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-95842	Lab File ID:	144024.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.00 g
Analysis Date:	08/02/2013 1519	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	08/01/2013 1137				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methylene Chloride	500	819	164	27 - 172	
4-Methyl-2-pentanone (MIBK)	1000	911	91	49 - 121	J
Methyl tert butyl ether	500	456	91	34 - 157	
m-Xylene & p-Xylene	1000	963	96	67 - 118	
Naphthalene	500	406	81	37 - 126	
n-Butylbenzene	500	458	92	51 - 137	
N-Propylbenzene	500	474	95	64 - 130	
o-Xylene	500	483	97	68 - 120	
p-Isopropyltoluene	500	453	91	56 - 136	
sec-Butylbenzene	500	470	94	58 - 131	
Styrene	500	435	87	60 - 120	
tert-Butylbenzene	500	441	88	58 - 128	
1,1,1,2-Tetrachloroethane	500	477	95	27 - 121	
1,1,2,2-Tetrachloroethane	500	456	91	54 - 121	
Tetrachloroethene	500	516	103	58 - 131	
Tetrahydrofuran	500	587	117	70 - 130	J
Toluene	500	506	101	66 - 123	
trans-1,2-Dichloroethene	500	462	92	58 - 121	
trans-1,3-Dichloropropene	500	394	79	22 - 122	
1,2,3-Trichlorobenzene	500	458	92	43 - 129	
1,2,4-Trichlorobenzene	500	453	91	41 - 135	
1,1,1-Trichloroethane	500	507	101	38 - 122	
1,1,2-Trichloroethane	500	457	91	74 - 114	
Trichloroethene	500	492	98	59 - 124	
Trichlorofluoromethane	500	476	95	17 - 145	
1,2,3-Trichloropropane	500	483	97	74 - 124	
1,1,2-Trichloro-1,2,2-trifluoroethane	500	506	101	48 - 151	
1,2,4-Trimethylbenzene	500	454	91	62 - 133	
1,3,5-Trimethylbenzene	500	468	94	60 - 130	
Vinyl chloride	500	359	72	33 - 110	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	26 - 141
Dibromofluoromethane (Surr)	97	30 - 122
1,2-Dichloroethane-d4 (Surr)	103	39 - 128
Toluene-d8 (Surr)	96	33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method Reporting Limit Check - Batch: 240-96012 **Method: 8260B**
Preparation: N/A

Lab Sample ID:	MRL 240-96012/7	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	144018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	08/02/2013 1310	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0100	ND	159	10 - 150	^
Allyl chloride	0.00500	ND	95	10 - 150	
Benzene	0.00500	ND	105	10 - 150	
Bromobenzene	0.00500	ND	98	10 - 150	
Bromochloromethane	0.00500	ND	104	10 - 150	
Bromodichloromethane	0.00500	ND	88	10 - 150	
Bromoform	0.00500	ND	77	10 - 150	
Bromomethane	0.00500	ND	132	10 - 150	
2-Butanone (MEK)	0.0100	ND	101	10 - 150	
Carbon disulfide	0.00500	ND	100	10 - 150	
Carbon tetrachloride	0.00500	ND	112	10 - 150	
Chlorobenzene	0.00500	ND	103	10 - 150	
Chlorodibromomethane	0.00500	ND	80	10 - 150	
Chloroethane	0.00500	ND	117	10 - 150	
Chloroform	0.00500	ND	104	10 - 150	
Chloromethane	0.00500	ND	118	10 - 150	
2-Chlorotoluene	0.00500	ND	102	10 - 150	
4-Chlorotoluene	0.00500	ND	98	10 - 150	
cis-1,2-Dichloroethene	0.00500	ND	103	10 - 150	
cis-1,3-Dichloropropene	0.00500	ND	81	10 - 150	
Cyclohexane	0.00500	ND	115	10 - 150	
1,2-Dibromo-3-Chloropropane	0.00500	ND	76	10 - 150	
1,2-Dibromoethane	0.00500	ND	88	10 - 150	
Dibromomethane	0.00500	ND	105	10 - 150	
1,2-Dichlorobenzene	0.00500	ND	104	10 - 150	
1,3-Dichlorobenzene	0.00500	ND	106	10 - 150	
1,4-Dichlorobenzene	0.00500	ND	106	10 - 150	
Dichlorodifluoromethane	0.00500	ND	113	10 - 150	
1,1-Dichloroethane	0.00500	ND	110	10 - 150	
1,2-Dichloroethane	0.00500	ND	115	10 - 150	
1,1-Dichloroethene	0.00500	ND	99	10 - 150	
Dichlorofluoromethane	0.00500	ND	116	10 - 150	
1,2-Dichloropropane	0.00500	ND	104	10 - 150	
1,3-Dichloropropane	0.00500	ND	100	10 - 150	
2,2-Dichloropropane	0.00500	ND	103	10 - 150	
1,1-Dichloropropene	0.00500	ND	108	10 - 150	
Ethylbenzene	0.00500	ND	104	10 - 150	
Ethyl ether	0.00500	ND	120	10 - 150	
Hexachlorobutadiene	0.00500	ND	108	10 - 150	
2-Hexanone	0.0100	ND	89	10 - 150	
Isopropylbenzene	0.00500	ND	103	10 - 150	

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method Reporting Limit Check - Batch: 240-96012 **Method: 8260B**
Preparation: N/A

Lab Sample ID:	MRL 240-96012/7	Analysis Batch:	240-96012	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	144018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	08/02/2013 1310	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl acetate	0.0250	ND	117	10 - 150	
Methylcyclohexane	0.00500	ND	108	10 - 150	
Methylene Chloride	0.00500	ND	384	10 - 150	^
4-Methyl-2-pentanone (MIBK)	0.0100	ND	100	10 - 150	
Methyl tert butyl ether	0.00500	ND	104	10 - 150	
m-Xylene & p-Xylene	0.00500	ND	99	10 - 150	
Naphthalene	0.00500	ND	96	10 - 150	
n-Butylbenzene	0.00500	ND	96	10 - 150	
N-Propylbenzene	0.00500	ND	102	10 - 150	
o-Xylene	0.00500	ND	103	10 - 150	
p-Isopropyltoluene	0.00500	ND	97	10 - 150	
sec-Butylbenzene	0.00500	ND	97	10 - 150	
Styrene	0.00500	ND	87	10 - 150	
tert-Butylbenzene	0.00500	ND	92	10 - 150	
1,1,1,2-Tetrachloroethane	0.00500	ND	104	10 - 150	
1,1,2,2-Tetrachloroethane	0.00500	ND	96	10 - 150	
Tetrachloroethene	0.00500	ND	115	10 - 150	
Tetrahydrofuran	0.0100	ND	122	10 - 150	
Toluene	0.00500	ND	110	10 - 150	
trans-1,2-Dichloroethene	0.00500	ND	105	10 - 150	
trans-1,3-Dichloropropene	0.00500	ND	76	10 - 150	
1,2,3-Trichlorobenzene	0.00500	ND	108	10 - 150	
1,2,4-Trichlorobenzene	0.00500	ND	107	10 - 150	
1,1,1-Trichloroethane	0.00500	ND	111	10 - 150	
1,1,2-Trichloroethane	0.00500	ND	101	10 - 150	
Trichloroethene	0.00500	ND	107	10 - 150	
Trichlorofluoromethane	0.00500	ND	127	10 - 150	
1,2,3-Trichloropropane	0.00500	ND	105	10 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00500	ND	116	10 - 150	
1,2,4-Trimethylbenzene	0.00500	ND	96	10 - 150	
1,3,5-Trimethylbenzene	0.00500	ND	95	10 - 150	
Vinyl chloride	0.00500	ND	110	10 - 150	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	10 - 150
Dibromofluoromethane (Surr)	95	10 - 150
1,2-Dichloroethane-d4 (Surr)	99	10 - 150
Toluene-d8 (Surr)	94	10 - 150

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	82	10 - 150
Dibromofluoromethane (Surr)	91	10 - 150

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	10 - 150
Toluene-d8 (Surr)	92	10 - 150

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Method Blank - Batch: 240-96395 **Method: WI-GRO**
Preparation: 5035

Lab Sample ID:	MB 240-96395/1-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 1507	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		0.32	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-96395 **Method: WI-GRO**
Preparation: 5035

LCS Lab Sample ID:	LCS 240-96395/2-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 1545	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 240-96395/9-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080614.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 2017	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Gasoline Range Organics (C6-C10)	106	100	80 - 120	5	20		

Client: ARCADIS U.S., Inc. Job Number: 240-27414-1

Duplicate - Batch: 240-95885

Method: Moisture
Preparation: N/A

Lab Sample ID:	240-27384-A-13 DU	Analysis Batch:	240-95885	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/01/2013 1626	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	89	90	0.2	20	
Percent Moisture	11	10	2	20	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: No

Client Name: ARCADIS Client #:
Address: 430 First Ave N, Ste 720
City/State/Zip Code: Minneapolis, MN 55401
Project Manager: Angharad Pagnon
Email Address: angharad.pagnon@arcadis-us.com
Telephone Number: 612-339-9434 Fax:
Sampler Name: (Print Name) Kelly Hahn
Sampler Signature: Kelly Hahn

Project Name: Ford TCAP
Project #: DE000440.0003.00002
Site/Location ID: St. Paul State: MN
Report To: Angharad Pagnon
Invoice To: Accounts Payable
Quote #: PO#:

TAT: X Standard 2 WK; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)
Email Results: (Y) N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: VOCs (8260)	GRO (w/ Method)	Moisture
GBNE_13 (20130729)	7/29/13	1510	G		S					2	1		1	1	1
GBSE_13 (20130729)	7/29/13	1515	G		S					2	1		1	1	1
GBSW_13 (20130729)	7/29/13	1520	G		S					2	1		1	1	1
GBNW_13 (20130729)	7/29/13	1525	G		S					2	1		1	1	1
MB-001 (20130729)	7/29/13	—	G		GW					1			X	X	

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other:

REMARKS

240-27414 Chain of Custody

LABORATORY COMMENTS:

Relinquished By: Kelly Hahn	Date: 7/30/13	Time: 1635	Received By:	Date: 7-30-13	Time: 1635
Relinquished By:	Date: 7-30-13	Time: 2015	Received By: Rachel Chen	Date: 7-31-13	Time: 915
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

TestAmerica Canton Sample Receipt Form/Narrative Login # : 27414
Canton Facility

Client Arcadis Site Name

Cooler unpacked by:

Cooler Received on 7-31-13 Opened on 7-31-13

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop-Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF –1 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 4	(CF 0 °C)	Observed Cooler Temp. 3.2 °C	Corrected Cooler Temp. 3.2 °C	☐ See Multiple Cooler Form
IR GUN# 5	(CF +1 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 8	(CF -0 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. ~~Did custody papers accompany the sample(s)?~~ (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC376062
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM DJP Date 7/31/13 by dm via (Verbal) Voice Mail Other
Concerning #14

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

~~Samples processed by:~~

Sample ID MB-001(20130729) is marked for VOC+GRO, but only received 1X40ml methanol blank. Will log for VOC only.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

ANALYTICAL REPORT

Job Number: 240-27504-1

Job Description: Ford TCAP - E200572

For:
ARCADIS U.S., Inc.
430 1st Avenue, North
Suite 720
Minneapolis, MN 55401

Attention: Ms. Angharad Pagnon

Approved for release.
Denise Pohl
Project Manager II
8/16/2013 3:29 PM

Denise Pohl, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9789
denise.pohl@testamericainc.com
08/16/2013

CASE NARRATIVE

Client: ARCADIS U.S., INC.

Project: Ford TCAP - E200572

Report Number: 240-27504-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 08/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4), SBSW_10(20130731) (240-27504-5), MB-002 (240-27504-8) and GD_2(20130801) (240-27504-9) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 08/06/2013 and analyzed on 08/08/2013 and 08/09/2013.

1,2,4-Trichlorobenzene was detected in method blank MB 240-96407/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Carbon disulfide, Naphthalene, Tetrahydrofuran and Toluene were detected in method blank MB 240-96407/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for GD_2(20130801) (240-27504-9).

Method(s) 5035: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 96395. A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) were provided.

Method(s) 8260B: Surrogate recovery for the following sample was outside of acceptance limits: GD_2(20130801) (240-27504-9). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for prep. batch 96407 on this sample SBNE_10(20130731) (240-27504-1).

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SSSN_12(20130731) (240-27504-3), SSSW_12(20130731) (240-27504-6) and TRIP BLANK (240-27504-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/13/2013.

Sample SSSW_12(20130731) (240-27504-6)[1250X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The laboratory control sample (LCS) for batch 97217 recovered outside control limits for the following analytes: 1,1,2-Trichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4) and SBSW_10(20130731) (240-27504-5) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/07/2013 and analyzed on 08/09/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Di-n-butyl phthalate was detected in method blank MB 240-96533/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Benzaldehyde failed the recovery criteria low for LCS 240-96533/24-A.

Method(s) 8270, 8270C: The laboratory control sample (LCS) for batch 96533 recovered outside control limits for the following analytes: Benzaldehyde for samples S-082386-080513-LP-09 (240-27597-9), SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4), SBSW_10(20130731) (240-27504-5). Since this is a non-controlling analyte, no corrective action was taken.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples SSSN_12(20130731) (240-27504-3) and SSSW_12(20130731) (240-27504-6) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/05/2013 and analyzed on 08/07/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-96170/17-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for SSSW_12(20130731) (240-27504-6).

Sample SSSW_12(20130731) (240-27504-6)[6.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8270C: The laboratory control sample (LCS) for batch 96170 recovered outside acceptance limits for Hexachlorocyclopentadiene. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

WISCONSIN GRO

Samples MB-002 (240-27504-8) and GD_2(20130801) (240-27504-9) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were prepared and analyzed on 08/06/2013.

No difficulties were encountered during the WI-GRO analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4) and SBSW_10(20130731) (240-27504-5) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 08/05/2013 and analyzed on 08/06/2013.

Barium was detected in method blank MB 240-96169/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4) and SBSW_10(20130731) (240-27504-5) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 08/05/2013 and analyzed on 08/07/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SBNE_10(20130731) (240-27504-1), SBNW_10(20130731) (240-27504-2), SBSE_10(20130731) (240-27504-4), SBSW_10(20130731) (240-27504-5) and GD_2(20130801) (240-27504-9) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 08/05/2013.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-27504-1	**SBNE_10(20130731)**					
Carbon disulfide		32	J B	250	ug/Kg	8260B
Methyl acetate		96	J	510	ug/Kg	8260B
m-Xylene & p-Xylene		8.8	J	510	ug/Kg	8260B
Naphthalene		8.7	J B	250	ug/Kg	8260B
Tetrahydrofuran		200	J B	1000	ug/Kg	8260B
Toluene		62	J B	250	ug/Kg	8260B
Di-n-butyl phthalate		34	J B	370	ug/Kg	8270C
Pyrene		4.9	J	370	ug/Kg	8270C
Barium		23	B	19	mg/Kg	6010B
Chromium		7.0		0.49	mg/Kg	6010B
Arsenic		1.6		0.97	mg/Kg	6010B
Lead		1.6		0.29	mg/Kg	6010B
Percent Solids		89		0.10	%	Moisture
Percent Moisture		11		0.10	%	Moisture
240-27504-2	**SBNW_10(20130731)**					
Carbon disulfide		32	J B	260	ug/Kg	8260B
Methyl acetate		78	J	520	ug/Kg	8260B
m-Xylene & p-Xylene		9.3	J	520	ug/Kg	8260B
Naphthalene		7.9	J B	260	ug/Kg	8260B
o-Xylene		21	J	260	ug/Kg	8260B
Styrene		6.5	J	260	ug/Kg	8260B
Tetrahydrofuran		180	J B	1000	ug/Kg	8260B
Toluene		59	J B	260	ug/Kg	8260B
Di-n-butyl phthalate		33	J B	380	ug/Kg	8270C
Barium		28	B	22	mg/Kg	6010B
Chromium		8.3		0.55	mg/Kg	6010B
Arsenic		2.3		1.1	mg/Kg	6010B
Lead		1.7		0.33	mg/Kg	6010B
Percent Solids		88		0.10	%	Moisture
Percent Moisture		12		0.10	%	Moisture
240-27504-3	**SSSN_12(20130731)**					
2-Butanone (MEK)		1.7	J	10	ug/L	8260B
Bis(2-ethylhexyl) phthalate		0.25	J B	1.9	ug/L	8270C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-27504-4	**SBSE_10(20130731)**					
Carbon disulfide		40	J B	280	ug/Kg	8260B
Methyl acetate		50	J	560	ug/Kg	8260B
m-Xylene & p-Xylene		7.0	J	560	ug/Kg	8260B
Naphthalene		8.6	J B	280	ug/Kg	8260B
Tetrahydrofuran		160	J B	1100	ug/Kg	8260B
Toluene		58	J B	280	ug/Kg	8260B
Di-n-butyl phthalate		36	J B	360	ug/Kg	8270C
Barium		25	B	21	mg/Kg	6010B
Chromium		5.0		0.53	mg/Kg	6010B
Arsenic		1.9		1.1	mg/Kg	6010B
Lead		1.7		0.32	mg/Kg	6010B
Percent Solids		90		0.10	%	Moisture
Percent Moisture		9.9		0.10	%	Moisture
240-27504-5	**SBSW_10(20130731)**					
2-Butanone (MEK)		57	J	1000	ug/Kg	8260B
Carbon disulfide		32	J B	260	ug/Kg	8260B
m-Xylene & p-Xylene		6.9	J	520	ug/Kg	8260B
Naphthalene		7.6	J B	260	ug/Kg	8260B
Tetrahydrofuran		170	J B	1000	ug/Kg	8260B
Toluene		56	J B	260	ug/Kg	8260B
Di-n-butyl phthalate		35	J B	370	ug/Kg	8270C
Barium		25	B	20	mg/Kg	6010B
Chromium		5.9		0.51	mg/Kg	6010B
Arsenic		1.3		1.0	mg/Kg	6010B
Lead		1.8		0.31	mg/Kg	6010B
Percent Solids		91		0.10	%	Moisture
Percent Moisture		8.7		0.10	%	Moisture
240-27504-6	**SSSW_12(20130731)**					
1,2,4-Trimethylbenzene		5100		1300	ug/L	8260B
1,3,5-Trimethylbenzene		1500		1300	ug/L	8260B
Ethylbenzene		12000		1300	ug/L	8260B
m-Xylene & p-Xylene		68000		2500	ug/L	8260B
Isopropylbenzene		170	J	1300	ug/L	8260B
N-Propylbenzene		410	J	1300	ug/L	8260B
Methylene Chloride		850	J	1300	ug/L	8260B
o-Xylene		16000		1300	ug/L	8260B
Toluene		3300		1300	ug/L	8260B
Acetophenone		91		6.3	ug/L	8270C
2-Methylnaphthalene		0.84	J	1.3	ug/L	8270C
2,4-Dimethylphenol		11	J	13	ug/L	8270C
Naphthalene		130		1.3	ug/L	8270C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-27504-7	**TRIP BLANK**					
Toluene		0.24	J	1.0	ug/L	8260B
240-27504-8	**MB-002**					
Carbon disulfide		36	J B	250	ug/Kg	8260B
Methyl acetate		25	J	500	ug/Kg	8260B
Styrene		5.6	J	250	ug/Kg	8260B
Tetrahydrofuran		140	J B	1000	ug/Kg	8260B
Toluene		69	J B	250	ug/Kg	8260B
240-27504-9	**GD_2(20130801)**					
Carbon disulfide		30	J B	240	ug/Kg	8260B
Ethylbenzene		9.2	J	240	ug/Kg	8260B
Methyl acetate		600		480	ug/Kg	8260B
m-Xylene & p-Xylene		44	J	480	ug/Kg	8260B
Naphthalene		51	J B	240	ug/Kg	8260B
o-Xylene		18	J	240	ug/Kg	8260B
Tetrahydrofuran		160	J B	960	ug/Kg	8260B
Toluene		70	J B	240	ug/Kg	8260B
1,2,4-Trimethylbenzene		79	J	240	ug/Kg	8260B
1,3,5-Trimethylbenzene		24	J	240	ug/Kg	8260B
WI Gasoline Range Organics (C6-C10)		1.4	J	9.3	mg/Kg	WI-GRO
Percent Solids		98		0.10	%	Moisture
Percent Moisture		2.0		0.10	%	Moisture

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B	
Closed System Purge and Trap	TAL CAN		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL CAN	SW846 8270C	
Soxhlet Extraction	TAL CAN		SW846 3540C
Wisconsin - Gasoline Range Organics (GC)	TAL CAN	WI-GRO WI-GRO	
Closed System Purge and Trap	TAL CAN		SW846 5035
Metals (ICP)	TAL CAN	SW846 6010B	
Preparation, Metals	TAL CAN		SW846 3050B
Mercury (CVAA)	TAL CAN	SW846 7471A	
Preparation, Mercury	TAL CAN		SW846 7471A
Percent Moisture	TAL CAN	EPA Moisture	
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	SW846 8260B	
Purge and Trap	TAL CAN		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL CAN	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LEE
SW846 8260B	Macenczak, Steven	SAM
SW846 8270C	Hula, Tom	TMH
WI-GRO WI-GRO	Bosworth, Heather M	HMB
SW846 6010B	Counts, Karen	KLC
SW846 7471A	Sutherland, Aaron	ADS
EPA Moisture	Grant, Katie	KMG

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-27504-1	SBNE_10(20130731)	Solid	07/31/2013 1235	08/02/2013 0915
240-27504-2	SBNW_10(20130731)	Solid	07/31/2013 1240	08/02/2013 0915
240-27504-3	SSSN_12(20130731)	Water	07/31/2013 1250	08/02/2013 0915
240-27504-4	SBSE_10(20130731)	Solid	07/31/2013 1300	08/02/2013 0915
240-27504-5	SBSW_10(20130731)	Solid	07/31/2013 1305	08/02/2013 0915
240-27504-6	SSSW_12(20130731)	Water	07/31/2013 1410	08/02/2013 0915
240-27504-7	TRIP BLANK	Water	08/01/2013 0000	08/02/2013 0915
240-27504-8	MB-002	Solid	08/01/2013 0000	08/02/2013 0915
240-27504-9	GD_2(20130801)	Solid	08/01/2013 1415	08/02/2013 0915

SAMPLE RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235
Client Matrix: Solid % Moisture: 11.5 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96891	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144161.D
Dilution:	1.0			Initial Weight/Volume:	11.095 g
Analysis Date:	08/09/2013 1755			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		170	1000
Allyl chloride		ND		54	510
Benzene		ND		12	250
Bromobenzene		ND		13	250
Bromochloromethane		ND		13	250
Bromodichloromethane		ND		10	250
Bromoform		ND		19	250
Bromomethane		ND		30	250
2-Butanone (MEK)		ND		44	1000
Carbon disulfide		32	J B	12	250
Carbon tetrachloride		ND		6.5	250
Chlorobenzene		ND		6.5	250
Chlorodibromomethane		ND		12	250
Chloroethane		ND		62	250
Chloroform		ND		9.0	250
Chloromethane		ND		14	250
2-Chlorotoluene		ND		9.2	250
4-Chlorotoluene		ND		10	250
cis-1,2-Dichloroethene		ND		7.0	250
cis-1,3-Dichloropropene		ND		8.0	250
Cyclohexane		ND		41	510
1,2-Dibromo-3-Chloropropane		ND		51	510
1,2-Dibromoethane		ND		10	250
Dibromomethane		ND		14	250
1,2-Dichlorobenzene		ND		8.8	250
1,3-Dichlorobenzene		ND		4.9	250
1,4-Dichlorobenzene		ND		8.1	250
Dichlorodifluoromethane		ND		16	250
1,1-Dichloroethane		ND		17	250
1,2-Dichloroethane		ND		10	250
1,1-Dichloroethene		ND		18	250
Dichlorofluoromethane		ND		25	510
1,2-Dichloropropane		ND		8.4	250
1,3-Dichloropropane		ND		22	250
2,2-Dichloropropane		ND		23	250
1,1-Dichloropropene		ND		10	250
Ethylbenzene		ND		5.5	250
Ethyl ether		ND		15	510
Hexachlorobutadiene		ND		14	250
2-Hexanone		ND		20	1000
Isopropylbenzene		ND		6.6	250
Methyl acetate		96	J	25	510
Methylcyclohexane		ND		12	510
Methylene Chloride		ND		78	250
4-Methyl-2-pentanone (MIBK)		ND		49	1000
Methyl tert butyl ether		ND		7.2	250

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235
Client Matrix: Solid % Moisture: 11.5 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96891	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144161.D
Dilution:	1.0			Initial Weight/Volume:	11.095 g
Analysis Date:	08/09/2013 1755			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		8.8	J	6.3	510
Naphthalene		8.7	J B	6.8	250
n-Butylbenzene		ND		8.1	250
N-Propylbenzene		ND		14	250
o-Xylene		ND		8.7	250
p-Isopropyltoluene		ND		4.9	250
sec-Butylbenzene		ND		4.8	250
Styrene		ND		5.7	250
tert-Butylbenzene		ND		6.6	250
1,1,1,2-Tetrachloroethane		ND		9.3	250
1,1,2,2-Tetrachloroethane		ND		9.1	250
Tetrachloroethene		ND		12	250
Tetrahydrofuran		200	J B	50	1000
Toluene		62	J B	17	250
trans-1,2-Dichloroethene		ND		9.4	250
trans-1,3-Dichloropropene		ND		20	250
1,2,3-Trichlorobenzene		ND		10	250
1,2,4-Trichlorobenzene		ND		7.4	250
1,1,1-Trichloroethane		ND		21	250
1,1,2-Trichloroethane		ND		12	250
Trichloroethene		ND		9.9	250
Trichlorofluoromethane		ND		16	250
1,2,3-Trichloropropane		ND		21	250
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		40	250
1,2,4-Trimethylbenzene		ND		5.1	250
1,3,5-Trimethylbenzene		ND		5.9	250
Vinyl chloride		ND		18	250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		26 - 141
Dibromofluoromethane (Surr)	102		30 - 122
1,2-Dichloroethane-d4 (Surr)	111		39 - 128
Toluene-d8 (Surr)	102		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240
Client Matrix: Solid % Moisture: 11.9 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144126.D
Dilution:	1.0			Initial Weight/Volume:	10.887 g
Analysis Date:	08/08/2013 1823			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		180	1000
Allyl chloride		ND		55	520
Benzene		ND		13	260
Bromobenzene		ND		14	260
Bromochloromethane		ND		14	260
Bromodichloromethane		ND		10	260
Bromoform		ND		20	260
Bromomethane		ND		30	260
2-Butanone (MEK)		ND		45	1000
Carbon disulfide		32	J B	13	260
Carbon tetrachloride		ND		6.7	260
Chlorobenzene		ND		6.7	260
Chlorodibromomethane		ND		13	260
Chloroethane		ND		64	260
Chloroform		ND		9.2	260
Chloromethane		ND		15	260
2-Chlorotoluene		ND		9.4	260
4-Chlorotoluene		ND		10	260
cis-1,2-Dichloroethene		ND		7.2	260
cis-1,3-Dichloropropene		ND		8.2	260
Cyclohexane		ND		42	520
1,2-Dibromo-3-Chloropropane		ND		52	520
1,2-Dibromoethane		ND		10	260
Dibromomethane		ND		15	260
1,2-Dichlorobenzene		ND		9.0	260
1,3-Dichlorobenzene		ND		5.0	260
1,4-Dichlorobenzene		ND		8.3	260
Dichlorodifluoromethane		ND		17	260
1,1-Dichloroethane		ND		18	260
1,2-Dichloroethane		ND		10	260
1,1-Dichloroethene		ND		19	260
Dichlorofluoromethane		ND		26	520
1,2-Dichloropropane		ND		8.6	260
1,3-Dichloropropane		ND		23	260
2,2-Dichloropropane		ND		24	260
1,1-Dichloropropene		ND		10	260
Ethylbenzene		ND		5.6	260
Ethyl ether		ND		16	520
Hexachlorobutadiene		ND		15	260
2-Hexanone		ND		21	1000
Isopropylbenzene		ND		6.8	260
Methyl acetate		78	J	26	520
Methylcyclohexane		ND		13	520
Methylene Chloride		ND		80	260
4-Methyl-2-pentanone (MIBK)		ND		50	1000
Methyl tert butyl ether		ND		7.4	260

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240
Client Matrix: Solid % Moisture: 11.9 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144126.D
Dilution:	1.0			Initial Weight/Volume:	10.887 g
Analysis Date:	08/08/2013 1823			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		9.3	J	6.5	520
Naphthalene		7.9	J B	7.0	260
n-Butylbenzene		ND		8.3	260
N-Propylbenzene		ND		15	260
o-Xylene		21	J	8.9	260
p-Isopropyltoluene		ND		5.0	260
sec-Butylbenzene		ND		4.9	260
Styrene		6.5	J	5.8	260
tert-Butylbenzene		ND		6.8	260
1,1,1,2-Tetrachloroethane		ND		9.5	260
1,1,2,2-Tetrachloroethane		ND		9.3	260
Tetrachloroethene		ND		13	260
Tetrahydrofuran		180	J B	51	1000
Toluene		59	J B	18	260
trans-1,2-Dichloroethene		ND		9.6	260
trans-1,3-Dichloropropene		ND		21	260
1,2,3-Trichlorobenzene		ND		10	260
1,2,4-Trichlorobenzene		ND		7.6	260
1,1,1-Trichloroethane		ND		22	260
1,1,2-Trichloroethane		ND		13	260
Trichloroethene		ND		10	260
Trichlorofluoromethane		ND		17	260
1,2,3-Trichloropropane		ND		22	260
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		41	260
1,2,4-Trimethylbenzene		ND		5.2	260
1,3,5-Trimethylbenzene		ND		6.0	260
Vinyl chloride		ND		19	260

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		26 - 141
Dibromofluoromethane (Surr)	94		30 - 122
1,2-Dichloroethane-d4 (Surr)	101		39 - 128
Toluene-d8 (Surr)	93		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSN_12(20130731)**

Lab Sample ID: 240-27504-3 Date Sampled: 07/31/2013 1250
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3945.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1547			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1547				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND	*	0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	2.0

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSN_12(20130731)**

Lab Sample ID: 240-27504-3 Date Sampled: 07/31/2013 1250
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3945.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1547			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1547				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	1.7	J	0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	1.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		63 - 129
4-Bromofluorobenzene (Surr)	77		66 - 117
Toluene-d8 (Surr)	96		74 - 115
Dibromofluoromethane (Surr)	88		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300
Client Matrix: Solid % Moisture: 9.9 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144127.D
Dilution:	1.0			Initial Weight/Volume:	9.988 g
Analysis Date:	08/08/2013 1845			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		190	1100
Allyl chloride		ND		59	560
Benzene		ND		13	280
Bromobenzene		ND		14	280
Bromochloromethane		ND		14	280
Bromodichloromethane		ND		11	280
Bromoform		ND		21	280
Bromomethane		ND		32	280
2-Butanone (MEK)		ND		48	1100
Carbon disulfide		40	J B	13	280
Carbon tetrachloride		ND		7.1	280
Chlorobenzene		ND		7.1	280
Chlorodibromomethane		ND		13	280
Chloroethane		ND		68	280
Chloroform		ND		9.8	280
Chloromethane		ND		16	280
2-Chlorotoluene		ND		10	280
4-Chlorotoluene		ND		11	280
cis-1,2-Dichloroethene		ND		7.7	280
cis-1,3-Dichloropropene		ND		8.8	280
Cyclohexane		ND		44	560
1,2-Dibromo-3-Chloropropane		ND		56	560
1,2-Dibromoethane		ND		11	280
Dibromomethane		ND		16	280
1,2-Dichlorobenzene		ND		9.6	280
1,3-Dichlorobenzene		ND		5.3	280
1,4-Dichlorobenzene		ND		8.9	280
Dichlorodifluoromethane		ND		18	280
1,1-Dichloroethane		ND		19	280
1,2-Dichloroethane		ND		11	280
1,1-Dichloroethene		ND		20	280
Dichlorofluoromethane		ND		28	560
1,2-Dichloropropane		ND		9.1	280
1,3-Dichloropropane		ND		24	280
2,2-Dichloropropane		ND		26	280
1,1-Dichloropropene		ND		11	280
Ethylbenzene		ND		6.0	280
Ethyl ether		ND		17	560
Hexachlorobutadiene		ND		16	280
2-Hexanone		ND		22	1100
Isopropylbenzene		ND		7.2	280
Methyl acetate		50	J	28	560
Methylcyclohexane		ND		13	560
Methylene Chloride		ND		86	280
4-Methyl-2-pentanone (MIBK)		ND		53	1100
Methyl tert butyl ether		ND		7.9	280

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300
Client Matrix: Solid % Moisture: 9.9 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144127.D
Dilution:	1.0			Initial Weight/Volume:	9.988 g
Analysis Date:	08/08/2013 1845			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		7.0	J	6.9	560
Naphthalene		8.6	J B	7.4	280
n-Butylbenzene		ND		8.9	280
N-Propylbenzene		ND		16	280
o-Xylene		ND		9.4	280
p-Isopropyltoluene		ND		5.3	280
sec-Butylbenzene		ND		5.2	280
Styrene		ND		6.2	280
tert-Butylbenzene		ND		7.2	280
1,1,1,2-Tetrachloroethane		ND		10	280
1,1,2,2-Tetrachloroethane		ND		9.9	280
Tetrachloroethene		ND		13	280
Tetrahydrofuran		160	J B	54	1100
Toluene		58	J B	19	280
trans-1,2-Dichloroethene		ND		10	280
trans-1,3-Dichloropropene		ND		22	280
1,2,3-Trichlorobenzene		ND		11	280
1,2,4-Trichlorobenzene		ND		8.1	280
1,1,1-Trichloroethane		ND		23	280
1,1,2-Trichloroethane		ND		13	280
Trichloroethene		ND		11	280
Trichlorofluoromethane		ND		18	280
1,2,3-Trichloropropane		ND		23	280
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		43	280
1,2,4-Trimethylbenzene		ND		5.6	280
1,3,5-Trimethylbenzene		ND		6.4	280
Vinyl chloride		ND		20	280

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		26 - 141
Dibromofluoromethane (Surr)	109		30 - 122
1,2-Dichloroethane-d4 (Surr)	115		39 - 128
Toluene-d8 (Surr)	106		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305
Client Matrix: Solid % Moisture: 8.7 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144128.D
Dilution:	1.0			Initial Weight/Volume:	10.535 g
Analysis Date:	08/08/2013 1906			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		180	1000
Allyl chloride		ND		55	520
Benzene		ND		12	260
Bromobenzene		ND		14	260
Bromochloromethane		ND		14	260
Bromodichloromethane		ND		10	260
Bromoform		ND		20	260
Bromomethane		ND		30	260
2-Butanone (MEK)		57	J	45	1000
Carbon disulfide		32	J B	12	260
Carbon tetrachloride		ND		6.7	260
Chlorobenzene		ND		6.7	260
Chlorodibromomethane		ND		12	260
Chloroethane		ND		63	260
Chloroform		ND		9.1	260
Chloromethane		ND		15	260
2-Chlorotoluene		ND		9.4	260
4-Chlorotoluene		ND		10	260
cis-1,2-Dichloroethene		ND		7.2	260
cis-1,3-Dichloropropene		ND		8.2	260
Cyclohexane		ND		42	520
1,2-Dibromo-3-Chloropropane		ND		52	520
1,2-Dibromoethane		ND		10	260
Dibromomethane		ND		15	260
1,2-Dichlorobenzene		ND		8.9	260
1,3-Dichlorobenzene		ND		5.0	260
1,4-Dichlorobenzene		ND		8.3	260
Dichlorodifluoromethane		ND		17	260
1,1-Dichloroethane		ND		18	260
1,2-Dichloroethane		ND		10	260
1,1-Dichloroethene		ND		19	260
Dichlorofluoromethane		ND		26	520
1,2-Dichloropropane		ND		8.5	260
1,3-Dichloropropane		ND		23	260
2,2-Dichloropropane		ND		24	260
1,1-Dichloropropene		ND		10	260
Ethylbenzene		ND		5.6	260
Ethyl ether		ND		16	520
Hexachlorobutadiene		ND		15	260
2-Hexanone		ND		21	1000
Isopropylbenzene		ND		6.8	260
Methyl acetate		ND		26	520
Methylcyclohexane		ND		12	520
Methylene Chloride		ND		80	260
4-Methyl-2-pentanone (MIBK)		ND		50	1000
Methyl tert butyl ether		ND		7.4	260

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305
Client Matrix: Solid % Moisture: 8.7 Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144128.D
Dilution:	1.0			Initial Weight/Volume:	10.535 g
Analysis Date:	08/08/2013 1906			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		6.9	J	6.4	520
Naphthalene		7.6	J B	7.0	260
n-Butylbenzene		ND		8.3	260
N-Propylbenzene		ND		15	260
o-Xylene		ND		8.8	260
p-Isopropyltoluene		ND		5.0	260
sec-Butylbenzene		ND		4.9	260
Styrene		ND		5.8	260
tert-Butylbenzene		ND		6.8	260
1,1,1,2-Tetrachloroethane		ND		9.5	260
1,1,2,2-Tetrachloroethane		ND		9.2	260
Tetrachloroethene		ND		12	260
Tetrahydrofuran		170	J B	51	1000
Toluene		56	J B	18	260
trans-1,2-Dichloroethene		ND		9.6	260
trans-1,3-Dichloropropene		ND		21	260
1,2,3-Trichlorobenzene		ND		10	260
1,2,4-Trichlorobenzene		ND		7.6	260
1,1,1-Trichloroethane		ND		22	260
1,1,2-Trichloroethane		ND		12	260
Trichloroethene		ND		10	260
Trichlorofluoromethane		ND		17	260
1,2,3-Trichloropropane		ND		22	260
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		41	260
1,2,4-Trimethylbenzene		ND		5.2	260
1,3,5-Trimethylbenzene		ND		6.0	260
Vinyl chloride		ND		19	260

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		26 - 141
Dibromofluoromethane (Surr)	110		30 - 122
1,2-Dichloroethane-d4 (Surr)	120		39 - 128
Toluene-d8 (Surr)	109		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSW_12(20130731)**

Lab Sample ID: 240-27504-6 Date Sampled: 07/31/2013 1410
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3942.D
Dilution:	1250			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1439			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1439				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		290	1300
1,1,1-Trichloroethane	ND		280	1300
1,1,2,2-Tetrachloroethane	ND		230	1300
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		350	1300
1,1,2-Trichloroethane	ND	*	340	1300
1,1-Dichloroethane	ND		190	1300
1,1-Dichloroethene	ND		240	1300
1,1-Dichloropropene	ND		160	1300
1,2,3-Trichlorobenzene	ND		210	1300
1,2,3-Trichloropropane	ND		540	1300
1,2,4-Trichlorobenzene	ND		190	1300
1,2,4-Trimethylbenzene	5100		150	1300
1,2-Dibromo-3-Chloropropane	ND		840	2500
1,2-Dichlorobenzene	ND		160	1300
1,2-Dichloroethane	ND		280	1300
1,2-Dichloropropane	ND		230	1300
1,3,5-Trimethylbenzene	1500		120	1300
1,3-Dichlorobenzene	ND		180	1300
1,3-Dichloropropane	ND		200	1300
1,4-Dichlorobenzene	ND		160	1300
Allyl chloride	ND		440	2500
2,2-Dichloropropane	ND		160	1300
2-Chlorotoluene	ND		140	1300
2-Hexanone	ND		510	13000
Bromobenzene	ND		160	1300
Bromochloromethane	ND		360	1300
4-Chlorotoluene	ND		230	1300
p-Isopropyltoluene	ND		150	1300
Acetone	ND		1400	13000
Benzene	ND		160	1300
Bromoform	ND		800	1300
Bromomethane	ND		510	1300
Carbon disulfide	ND		160	1300
Carbon tetrachloride	ND		160	1300
Chlorobenzene	ND		190	1300
Chloroethane	ND		360	1300
Chloroform	ND		200	1300
Chloromethane	ND		380	1300
cis-1,2-Dichloroethene	ND		210	1300
cis-1,3-Dichloropropene	ND		180	1300
Cyclohexane	ND		150	1300
Hexachlorobutadiene	ND		380	1300
Dibromomethane	ND		350	1300
Bromodichloromethane	ND		190	1300
Dichlorodifluoromethane	ND		390	1300
Dichlorofluoromethane	ND		530	2500

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSW_12(20130731)**

Lab Sample ID: 240-27504-6 Date Sampled: 07/31/2013 1410
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3942.D
Dilution:	1250			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1439			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1439				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		390	2500
Ethylbenzene	12000		210	1300
1,2-Dibromoethane	ND		300	1300
Naphthalene	ND		300	1300
m-Xylene & p-Xylene	68000		300	2500
n-Butylbenzene	ND		150	1300
Isopropylbenzene	170	J	160	1300
Methyl acetate	ND		480	13000
N-Propylbenzene	410	J	180	1300
2-Butanone (MEK)	ND		710	13000
4-Methyl-2-pentanone (MIBK)	ND		400	13000
sec-Butylbenzene	ND		160	1300
Methyl tert butyl ether	ND		210	1300
Methylene Chloride	850	J	410	1300
o-Xylene	16000		180	1300
Styrene	ND		140	1300
tert-Butylbenzene	ND		160	1300
Tetrachloroethene	ND		360	1300
Tetrahydrofuran	ND		530	6300
Toluene	3300		160	1300
trans-1,2-Dichloroethene	ND		240	1300
trans-1,3-Dichloropropene	ND		240	1300
Trichloroethene	ND		210	1300
Trichlorofluoromethane	ND		260	1300
Vinyl chloride	ND		280	1300
Methylcyclohexane	ND		160	1300
Chlorodibromomethane	ND		230	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		63 - 129
4-Bromofluorobenzene (Surr)	89		66 - 117
Toluene-d8 (Surr)	90		74 - 115
Dibromofluoromethane (Surr)	104		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 240-27504-7 Date Sampled: 08/01/2013 0000
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3946.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1612			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND	*	0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 240-27504-7 Date Sampled: 08/01/2013 0000
Client Matrix: Water Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXC3946.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1612			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	0.24	J	0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
4-Bromofluorobenzene (Surr)	69		66 - 117
Toluene-d8 (Surr)	86		74 - 115
Dibromofluoromethane (Surr)	86		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **MB-002**

Lab Sample ID: 240-27504-8 Date Sampled: 08/01/2013 0000
Client Matrix: Solid Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144129.D
Dilution:	1.0			Initial Weight/Volume:	10 g
Analysis Date:	08/08/2013 1927			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		170	1000
Allyl chloride		ND		53	500
Benzene		ND		12	250
Bromobenzene		ND		13	250
Bromochloromethane		ND		13	250
Bromodichloromethane		ND		9.9	250
Bromoform		ND		19	250
Bromomethane		ND		29	250
2-Butanone (MEK)		ND		43	1000
Carbon disulfide		36	J B	12	250
Carbon tetrachloride		ND		6.4	250
Chlorobenzene		ND		6.4	250
Chlorodibromomethane		ND		12	250
Chloroethane		ND		61	250
Chloroform		ND		8.8	250
Chloromethane		ND		14	250
2-Chlorotoluene		ND		9.0	250
4-Chlorotoluene		ND		9.9	250
cis-1,2-Dichloroethene		ND		6.9	250
cis-1,3-Dichloropropene		ND		7.9	250
Cyclohexane		ND		40	500
1,2-Dibromo-3-Chloropropane		ND		50	500
1,2-Dibromoethane		ND		10	250
Dibromomethane		ND		14	250
1,2-Dichlorobenzene		ND		8.6	250
1,3-Dichlorobenzene		ND		4.8	250
1,4-Dichlorobenzene		ND		8.0	250
Dichlorodifluoromethane		ND		16	250
1,1-Dichloroethane		ND		17	250
1,2-Dichloroethane		ND		10	250
1,1-Dichloroethene		ND		18	250
Dichlorofluoromethane		ND		25	500
1,2-Dichloropropane		ND		8.2	250
1,3-Dichloropropane		ND		22	250
2,2-Dichloropropane		ND		23	250
1,1-Dichloropropene		ND		10	250
Ethylbenzene		ND		5.4	250
Ethyl ether		ND		15	500
Hexachlorobutadiene		ND		14	250
2-Hexanone		ND		20	1000
Isopropylbenzene		ND		6.5	250
Methyl acetate		25	J	25	500
Methylcyclohexane		ND		12	500
Methylene Chloride		ND		77	250
4-Methyl-2-pentanone (MIBK)		ND		48	1000
Methyl tert butyl ether		ND		7.1	250

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **MB-002**

Lab Sample ID: 240-27504-8 Date Sampled: 08/01/2013 0000
Client Matrix: Solid Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144129.D
Dilution:	1.0			Initial Weight/Volume:	10 g
Analysis Date:	08/08/2013 1927			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		ND		6.2	500
Naphthalene		ND		6.7	250
n-Butylbenzene		ND		8.0	250
N-Propylbenzene		ND		14	250
o-Xylene		ND		8.5	250
p-Isopropyltoluene		ND		4.8	250
sec-Butylbenzene		ND		4.7	250
Styrene		5.6	J	5.6	250
tert-Butylbenzene		ND		6.5	250
1,1,1,2-Tetrachloroethane		ND		9.1	250
1,1,2,2-Tetrachloroethane		ND		8.9	250
Tetrachloroethene		ND		12	250
Tetrahydrofuran		140	J B	49	1000
Toluene		69	J B	17	250
trans-1,2-Dichloroethene		ND		9.2	250
trans-1,3-Dichloropropene		ND		20	250
1,2,3-Trichlorobenzene		ND		10	250
1,2,4-Trichlorobenzene		ND		7.3	250
1,1,1-Trichloroethane		ND		21	250
1,1,2-Trichloroethane		ND		12	250
Trichloroethene		ND		9.7	250
Trichlorofluoromethane		ND		16	250
1,2,3-Trichloropropane		ND		21	250
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		39	250
1,2,4-Trimethylbenzene		ND		5.0	250
1,3,5-Trimethylbenzene		ND		5.8	250
Vinyl chloride		ND		18	250

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		26 - 141
Dibromofluoromethane (Surr)	116		30 - 122
1,2-Dichloroethane-d4 (Surr)	124		39 - 128
Toluene-d8 (Surr)	117		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **GD_2(20130801)**

Lab Sample ID: 240-27504-9 Date Sampled: 08/01/2013 1415
Client Matrix: Solid Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144130.D
Dilution:	1.0			Initial Weight/Volume:	10.417 g
Analysis Date:	08/08/2013 1949			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		ND		160	960
Allyl chloride		ND		51	480
Benzene		ND		12	240
Bromobenzene		ND		12	240
Bromochloromethane		ND		12	240
Bromodichloromethane		ND		9.5	240
Bromoform		ND		18	240
Bromomethane		ND		28	240
2-Butanone (MEK)		ND		41	960
Carbon disulfide		30	J B	12	240
Carbon tetrachloride		ND		6.1	240
Chlorobenzene		ND		6.1	240
Chlorodibromomethane		ND		12	240
Chloroethane		ND		59	240
Chloroform		ND		8.4	240
Chloromethane		ND		13	240
2-Chlorotoluene		ND		8.6	240
4-Chlorotoluene		ND		9.5	240
cis-1,2-Dichloroethene		ND		6.6	240
cis-1,3-Dichloropropene		ND		7.6	240
Cyclohexane		ND		38	480
1,2-Dibromo-3-Chloropropane		ND		48	480
1,2-Dibromoethane		ND		9.6	240
Dibromomethane		ND		13	240
1,2-Dichlorobenzene		ND		8.3	240
1,3-Dichlorobenzene		ND		4.6	240
1,4-Dichlorobenzene		ND		7.7	240
Dichlorodifluoromethane		ND		15	240
1,1-Dichloroethane		ND		16	240
1,2-Dichloroethane		ND		9.6	240
1,1-Dichloroethene		ND		17	240
Dichlorofluoromethane		ND		24	480
1,2-Dichloropropane		ND		7.9	240
1,3-Dichloropropane		ND		21	240
2,2-Dichloropropane		ND		22	240
1,1-Dichloropropene		ND		9.6	240
Ethylbenzene		9.2	J	5.2	240
Ethyl ether		ND		14	480
Hexachlorobutadiene		ND		13	240
2-Hexanone		ND		19	960
Isopropylbenzene		ND		6.2	240
Methyl acetate		600		24	480
Methylcyclohexane		ND		12	480
Methylene Chloride		ND		74	240
4-Methyl-2-pentanone (MIBK)		ND		46	960
Methyl tert butyl ether		ND		6.8	240

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **GD_2(20130801)**

Lab Sample ID: 240-27504-9 Date Sampled: 08/01/2013 1415
Client Matrix: Solid Date Received: 08/02/2013 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-96767	Instrument ID:	A3UX14
Prep Method:	5035	Prep Batch:	240-96407	Lab File ID:	144130.D
Dilution:	1.0			Initial Weight/Volume:	10.417 g
Analysis Date:	08/08/2013 1949			Final Weight/Volume:	10.0 mL
Prep Date:	08/06/2013 2302				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		44	J	6.0	480
Naphthalene		51	J B	6.4	240
n-Butylbenzene		ND		7.7	240
N-Propylbenzene		ND		13	240
o-Xylene		18	J	8.2	240
p-Isopropyltoluene		ND		4.6	240
sec-Butylbenzene		ND		4.5	240
Styrene		ND		5.4	240
tert-Butylbenzene		ND		6.2	240
1,1,1,2-Tetrachloroethane		ND		8.7	240
1,1,2,2-Tetrachloroethane		ND		8.5	240
Tetrachloroethene		ND		12	240
Tetrahydrofuran		160	J B	47	960
Toluene		70	J B	16	240
trans-1,2-Dichloroethene		ND		8.8	240
trans-1,3-Dichloropropene		ND		19	240
1,2,3-Trichlorobenzene		ND		9.6	240
1,2,4-Trichlorobenzene		ND		7.0	240
1,1,1-Trichloroethane		ND		20	240
1,1,2-Trichloroethane		ND		12	240
Trichloroethene		ND		9.3	240
Trichlorofluoromethane		ND		15	240
1,2,3-Trichloropropane		ND		20	240
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		37	240
1,2,4-Trimethylbenzene		79	J	4.8	240
1,3,5-Trimethylbenzene		24	J	5.6	240
Vinyl chloride		ND		17	240

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	110		26 - 141
Dibromofluoromethane (Surr)	109		30 - 122
1,2-Dichloroethane-d4 (Surr)	134	X	39 - 128
Toluene-d8 (Surr)	121		33 - 134

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235
Client Matrix: Solid % Moisture: 11.5 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809021.D
Dilution:	1.0			Initial Weight/Volume:	30.30 g
Analysis Date:	08/09/2013 1506			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		ND		3.9	370
2,2'-oxybis[1-chloropropane]		ND		11	370
2,4,5-Trichlorophenol		ND		28	370
2,4,6-Trichlorophenol		ND		10	370
2,4-Dichlorophenol		ND		22	370
2,4-Dimethylphenol		ND		22	370
2,4-Dinitrophenol		ND		23	1800
2,4-Dinitrotoluene		ND		19	370
2,6-Dinitrotoluene		ND		23	370
2-Chloronaphthalene		ND		0.50	370
2-Chlorophenol		ND		9.2	370
2-Methylnaphthalene		ND		0.56	370
2-Methylphenol		ND		12	370
2-Nitroaniline		ND		10	1800
2-Nitrophenol		ND		9.3	370
3,3'-Dichlorobenzidine		ND		20	1800
3-Nitroaniline		ND		18	1800
4,6-Dinitro-2-methylphenol		ND		10	1800
4-Bromophenyl phenyl ether		ND		15	370
4-Chloro-3-methylphenol		ND		23	370
4-Chloroaniline		ND		19	370
4-Chlorophenyl phenyl ether		ND		15	370
4-Nitroaniline		ND		29	1800
4-Nitrophenol		ND		19	1800
Acenaphthene		ND		0.85	370
Acenaphthylene		ND		0.39	370
Acetophenone		ND		10	370
Anthracene		ND		0.87	370
Atrazine		ND		10	370
Benzaldehyde		ND	*	13	370
Benzo[a]anthracene		ND		0.70	370
Benzo[a]pyrene		ND		0.72	370
Benzo[b]fluoranthene		ND		0.66	370
Benzo[g,h,i]perylene		ND		0.39	370
Benzo[k]fluoranthene		ND		0.76	370
Bis(2-chloroethoxy)methane		ND		25	370
Bis(2-chloroethyl)ether		ND		2.2	370
Bis(2-ethylhexyl) phthalate		ND		21	370
Butyl benzyl phthalate		ND		11	370
Caprolactam		ND		41	370
Carbazole		ND		30	370
Chrysene		ND		1.2	370
Dibenz(a,h)anthracene		ND		0.74	370
Dibenzofuran		ND		0.74	370
Diethyl phthalate		ND		18	370
Dimethyl phthalate		ND		19	370

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235
Client Matrix: Solid % Moisture: 11.5 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809021.D
Dilution:	1.0			Initial Weight/Volume:	30.30 g
Analysis Date:	08/09/2013 1506			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Di-n-butyl phthalate		34	J B	17	370
Di-n-octyl phthalate		ND		8.8	370
Fluoranthene		ND		0.62	370
Fluorene		ND		0.59	370
Hexachlorobenzene		ND		2.3	370
Hexachlorobutadiene		ND		6.3	370
Hexachlorocyclopentadiene		ND		9.1	1800
Hexachloroethane		ND		10	370
Indeno[1,2,3-cd]pyrene		ND		0.39	370
Isophorone		ND		15	370
Naphthalene		ND		0.92	370
Nitrobenzene		ND		2.5	370
N-Nitrosodi-n-propylamine		ND		7.0	370
N-Nitrosodiphenylamine		ND		23	370
Pentachlorophenol		ND		10	370
Phenol		ND		8.2	370
Phenanthrene		ND		0.82	370
Pyrene		4.9	J	0.49	370
3 & 4 Methylphenol		ND		22	450

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	70		24 - 110
2-Fluorophenol (Surr)	70		24 - 110
2,4,6-Tribromophenol (Surr)	54		10 - 110
Nitrobenzene-d5 (Surr)	65		20 - 110
Phenol-d5 (Surr)	70		26 - 110
Terphenyl-d14 (Surr)	87		36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240
Client Matrix: Solid % Moisture: 11.9 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809022.D
Dilution:	1.0			Initial Weight/Volume:	29.76 g
Analysis Date:	08/09/2013 1528			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		ND		4.0	380
2,2'-oxybis[1-chloropropane]		ND		11	380
2,4,5-Trichlorophenol		ND		29	380
2,4,6-Trichlorophenol		ND		10	380
2,4-Dichlorophenol		ND		23	380
2,4-Dimethylphenol		ND		23	380
2,4-Dinitrophenol		ND		24	1800
2,4-Dinitrotoluene		ND		19	380
2,6-Dinitrotoluene		ND		24	380
2-Chloronaphthalene		ND		0.52	380
2-Chlorophenol		ND		9.4	380
2-Methylnaphthalene		ND		0.57	380
2-Methylphenol		ND		13	380
2-Nitroaniline		ND		10	1800
2-Nitrophenol		ND		9.5	380
3,3'-Dichlorobenzidine		ND		21	1800
3-Nitroaniline		ND		18	1800
4,6-Dinitro-2-methylphenol		ND		11	1800
4-Bromophenyl phenyl ether		ND		15	380
4-Chloro-3-methylphenol		ND		24	380
4-Chloroaniline		ND		19	380
4-Chlorophenyl phenyl ether		ND		15	380
4-Nitroaniline		ND		30	1800
4-Nitrophenol		ND		19	1800
Acenaphthene		ND		0.87	380
Acenaphthylene		ND		0.40	380
Acetophenone		ND		11	380
Anthracene		ND		0.89	380
Atrazine		ND		10	380
Benzaldehyde		ND	*	14	380
Benzo[a]anthracene		ND		0.72	380
Benzo[a]pyrene		ND		0.73	380
Benzo[b]fluoranthene		ND		0.68	380
Benzo[g,h,i]perylene		ND		0.40	380
Benzo[k]fluoranthene		ND		0.78	380
Bis(2-chloroethoxy)methane		ND		25	380
Bis(2-chloroethyl)ether		ND		2.3	380
Bis(2-ethylhexyl) phthalate		ND		22	380
Butyl benzyl phthalate		ND		11	380
Caprolactam		ND		42	380
Carbazole		ND		31	380
Chrysene		ND		1.3	380
Dibenz(a,h)anthracene		ND		0.76	380
Dibenzofuran		ND		0.76	380
Diethyl phthalate		ND		18	380
Dimethyl phthalate		ND		19	380

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240
Client Matrix: Solid % Moisture: 11.9 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809022.D
Dilution:	1.0			Initial Weight/Volume:	29.76 g
Analysis Date:	08/09/2013 1528			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Di-n-butyl phthalate		33	J B	17	380
Di-n-octyl phthalate		ND		9.0	380
Fluoranthene		ND		0.63	380
Fluorene		ND		0.61	380
Hexachlorobenzene		ND		2.4	380
Hexachlorobutadiene		ND		6.4	380
Hexachlorocyclopentadiene		ND		9.3	1800
Hexachloroethane		ND		10	380
Indeno[1,2,3-cd]pyrene		ND		0.40	380
Isophorone		ND		15	380
Naphthalene		ND		0.94	380
Nitrobenzene		ND		2.5	380
N-Nitrosodi-n-propylamine		ND		7.2	380
N-Nitrosodiphenylamine		ND		24	380
Pentachlorophenol		ND		10	380
Phenol		ND		8.4	380
Phenanthrene		ND		0.84	380
Pyrene		ND		0.50	380
3 & 4 Methylphenol		ND		23	460

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	68		24 - 110
2-Fluorophenol (Surr)	66		24 - 110
2,4,6-Tribromophenol (Surr)	49		10 - 110
Nitrobenzene-d5 (Surr)	60		20 - 110
Phenol-d5 (Surr)	65		26 - 110
Terphenyl-d14 (Surr)	89		36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSN_12(20130731)**

Lab Sample ID: 240-27504-3 Date Sampled: 07/31/2013 1250
Client Matrix: Water Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-96170	Lab File ID:	0807011.D
Dilution:	1.0			Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1125			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.042	0.19
Acenaphthylene	ND		0.046	0.19
Acetophenone	ND		0.32	0.95
Anthracene	ND		0.084	0.19
Atrazine	ND		0.32	0.95
Benzaldehyde	ND		0.37	0.95
Benzo[a]anthracene	ND		0.028	0.19
Benzo[b]fluoranthene	ND		0.038	0.19
Benzo[k]fluoranthene	ND		0.043	0.19
Benzo[g,h,i]perylene	ND		0.044	0.19
Benzo[a]pyrene	ND		0.049	0.19
Butyl benzyl phthalate	ND		0.25	1.9
1,1'-Biphenyl	ND		0.12	0.95
Bis(2-chloroethoxy)methane	ND		0.30	0.95
Bis(2-chloroethyl)ether	ND		0.095	0.95
Bis(2-ethylhexyl) phthalate	0.25	J B	0.21	1.9
4-Bromophenyl phenyl ether	ND		0.21	1.9
Caprolactam	ND		0.19	4.8
Carbazole	ND		0.27	0.95
4-Chloroaniline	ND		0.20	1.9
4-Chloro-3-methylphenol	ND		0.20	1.9
2-Chloronaphthalene	ND		0.095	0.95
2-Chlorophenol	ND		0.28	0.95
4-Chlorophenyl phenyl ether	ND		0.29	1.9
Chrysene	ND		0.048	0.19
2-Methylnaphthalene	ND		0.086	0.19
3 & 4 Methylphenol	ND		0.76	1.9
Dibenz(a,h)anthracene	ND		0.042	0.19
Dibenzofuran	ND		0.019	0.95
3,3'-Dichlorobenzidine	ND		0.35	4.8
2,4-Dichlorophenol	ND		0.18	1.9
Diethyl phthalate	ND		0.57	1.9
2,4-Dimethylphenol	ND		0.24	1.9
Dimethyl phthalate	ND		0.28	1.9
4,6-Dinitro-2-methylphenol	ND		2.3	4.8
2,4-Dinitrophenol	ND		0.30	4.8
2,4-Dinitrotoluene	ND		0.24	4.8
Di-n-butyl phthalate	ND		0.64	1.9
Di-n-octyl phthalate	ND		0.22	1.9
Fluoranthene	ND		0.042	0.19
Fluorene	ND		0.039	0.19
Hexachlorobenzene	ND		0.081	0.19
Hexachlorobutadiene	ND		0.26	0.95
Hexachlorocyclopentadiene	ND	*	0.23	9.5
Hexachloroethane	ND		0.18	0.95
Indeno[1,2,3-cd]pyrene	ND		0.041	0.19

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSN_12(20130731)**

Lab Sample ID: 240-27504-3 Date Sampled: 07/31/2013 1250
Client Matrix: Water Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-96170	Lab File ID:	0807011.D
Dilution:	1.0			Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1125			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		0.26	0.95
2-Methylphenol	ND		0.16	0.95
Naphthalene	ND		0.060	0.19
2-Nitroaniline	ND		0.20	1.9
3-Nitroaniline	ND		0.27	1.9
4-Nitroaniline	ND		0.21	1.9
Nitrobenzene	ND		0.038	0.95
2-Nitrophenol	ND		0.27	1.9
4-Nitrophenol	ND		0.28	4.8
N-Nitrosodiphenylamine	ND		0.30	0.95
N-Nitrosodi-n-propylamine	ND		0.23	0.95
2,2'-oxybis[1-chloropropane]	ND		0.38	0.95
Pentachlorophenol	ND		0.26	4.8
Phenanthrene	ND		0.059	0.19
Phenol	ND		0.57	0.95
Pyrene	ND		0.040	0.19
2,4,5-Trichlorophenol	ND		0.29	4.8
2,4,6-Trichlorophenol	ND		0.23	4.8
2,6-Dinitrotoluene	ND		0.76	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		20 - 110
2-Fluorophenol (Surr)	56		10 - 110
2,4,6-Tribromophenol (Surr)	59		21 - 110
Nitrobenzene-d5 (Surr)	60		21 - 110
Phenol-d5 (Surr)	61		21 - 110
Terphenyl-d14 (Surr)	55		24 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300
Client Matrix: Solid % Moisture: 9.9 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809023.D
Dilution:	1.0			Initial Weight/Volume:	30.42 g
Analysis Date:	08/09/2013 1550			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		ND		3.8	360
2,2'-oxybis[1-chloropropane]		ND		10	360
2,4,5-Trichlorophenol		ND		27	360
2,4,6-Trichlorophenol		ND		9.7	360
2,4-Dichlorophenol		ND		22	360
2,4-Dimethylphenol		ND		22	360
2,4-Dinitrophenol		ND		23	1800
2,4-Dinitrotoluene		ND		19	360
2,6-Dinitrotoluene		ND		23	360
2-Chloronaphthalene		ND		0.49	360
2-Chlorophenol		ND		9.0	360
2-Methylnaphthalene		ND		0.55	360
2-Methylphenol		ND		12	360
2-Nitroaniline		ND		10	1800
2-Nitrophenol		ND		9.1	360
3,3'-Dichlorobenzidine		ND		20	1800
3-Nitroaniline		ND		18	1800
4,6-Dinitro-2-methylphenol		ND		10	1800
4-Bromophenyl phenyl ether		ND		14	360
4-Chloro-3-methylphenol		ND		23	360
4-Chloroaniline		ND		19	360
4-Chlorophenyl phenyl ether		ND		14	360
4-Nitroaniline		ND		28	1800
4-Nitrophenol		ND		19	1800
Acenaphthene		ND		0.83	360
Acenaphthylene		ND		0.38	360
Acetophenone		ND		10	360
Anthracene		ND		0.85	360
Atrazine		ND		10	360
Benzaldehyde		ND	*	13	360
Benzo[a]anthracene		ND		0.69	360
Benzo[a]pyrene		ND		0.70	360
Benzo[b]fluoranthene		ND		0.65	360
Benzo[g,h,i]perylene		ND		0.38	360
Benzo[k]fluoranthene		ND		0.74	360
Bis(2-chloroethoxy)methane		ND		24	360
Bis(2-chloroethyl)ether		ND		2.2	360
Bis(2-ethylhexyl) phthalate		ND		21	360
Butyl benzyl phthalate		ND		11	360
Caprolactam		ND		40	360
Carbazole		ND		30	360
Chrysene		ND		1.2	360
Dibenz(a,h)anthracene		ND		0.72	360
Dibenzofuran		ND		0.72	360
Diethyl phthalate		ND		18	360
Dimethyl phthalate		ND		19	360

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300
Client Matrix: Solid % Moisture: 9.9 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809023.D
Dilution:	1.0			Initial Weight/Volume:	30.42 g
Analysis Date:	08/09/2013 1550			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Di-n-butyl phthalate		36	J B	16	360
Di-n-octyl phthalate		ND		8.6	360
Fluoranthene		ND		0.60	360
Fluorene		ND		0.58	360
Hexachlorobenzene		ND		2.3	360
Hexachlorobutadiene		ND		6.1	360
Hexachlorocyclopentadiene		ND		8.9	1800
Hexachloroethane		ND		9.9	360
Indeno[1,2,3-cd]pyrene		ND		0.38	360
Isophorone		ND		14	360
Naphthalene		ND		0.90	360
Nitrobenzene		ND		2.4	360
N-Nitrosodi-n-propylamine		ND		6.9	360
N-Nitrosodiphenylamine		ND		23	360
Pentachlorophenol		ND		10	360
Phenol		ND		8.0	360
Phenanthrene		ND		0.80	360
Pyrene		ND		0.48	360
3 & 4 Methylphenol		ND		22	440

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	63		24 - 110
2-Fluorophenol (Surr)	65		24 - 110
2,4,6-Tribromophenol (Surr)	54		10 - 110
Nitrobenzene-d5 (Surr)	60		20 - 110
Phenol-d5 (Surr)	65		26 - 110
Terphenyl-d14 (Surr)	91		36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305
Client Matrix: Solid % Moisture: 8.7 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809024.D
Dilution:	1.0			Initial Weight/Volume:	29.63 g
Analysis Date:	08/09/2013 1611			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		ND		3.9	370
2,2'-oxybis[1-chloropropane]		ND		11	370
2,4,5-Trichlorophenol		ND		28	370
2,4,6-Trichlorophenol		ND		9.9	370
2,4-Dichlorophenol		ND		22	370
2,4-Dimethylphenol		ND		22	370
2,4-Dinitrophenol		ND		23	1800
2,4-Dinitrotoluene		ND		19	370
2,6-Dinitrotoluene		ND		23	370
2-Chloronaphthalene		ND		0.50	370
2-Chlorophenol		ND		9.1	370
2-Methylnaphthalene		ND		0.55	370
2-Methylphenol		ND		12	370
2-Nitroaniline		ND		10	1800
2-Nitrophenol		ND		9.2	370
3,3'-Dichlorobenzidine		ND		20	1800
3-Nitroaniline		ND		18	1800
4,6-Dinitro-2-methylphenol		ND		10	1800
4-Bromophenyl phenyl ether		ND		14	370
4-Chloro-3-methylphenol		ND		23	370
4-Chloroaniline		ND		19	370
4-Chlorophenyl phenyl ether		ND		14	370
4-Nitroaniline		ND		29	1800
4-Nitrophenol		ND		19	1800
Acenaphthene		ND		0.84	370
Acenaphthylene		ND		0.39	370
Acetophenone		ND		10	370
Anthracene		ND		0.86	370
Atrazine		ND		10	370
Benzaldehyde		ND	*	13	370
Benzo[a]anthracene		ND		0.70	370
Benzo[a]pyrene		ND		0.71	370
Benzo[b]fluoranthene		ND		0.65	370
Benzo[g,h,i]perylene		ND		0.39	370
Benzo[k]fluoranthene		ND		0.75	370
Bis(2-chloroethoxy)methane		ND		24	370
Bis(2-chloroethyl)ether		ND		2.2	370
Bis(2-ethylhexyl) phthalate		ND		21	370
Butyl benzyl phthalate		ND		11	370
Caprolactam		ND		41	370
Carbazole		ND		30	370
Chrysene		ND		1.2	370
Dibenz(a,h)anthracene		ND		0.73	370
Dibenzofuran		ND		0.73	370
Diethyl phthalate		ND		18	370
Dimethyl phthalate		ND		19	370

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305
Client Matrix: Solid % Moisture: 8.7 Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Prep Method:	3540C	Prep Batch:	240-96533	Lab File ID:	0809024.D
Dilution:	1.0			Initial Weight/Volume:	29.63 g
Analysis Date:	08/09/2013 1611			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Di-n-butyl phthalate		35	J B	17	370
Di-n-octyl phthalate		ND		8.8	370
Fluoranthene		ND		0.61	370
Fluorene		ND		0.59	370
Hexachlorobenzene		ND		2.3	370
Hexachlorobutadiene		ND		6.2	370
Hexachlorocyclopentadiene		ND		9.0	1800
Hexachloroethane		ND		10	370
Indeno[1,2,3-cd]pyrene		ND		0.39	370
Isophorone		ND		14	370
Naphthalene		ND		0.91	370
Nitrobenzene		ND		2.4	370
N-Nitrosodi-n-propylamine		ND		7.0	370
N-Nitrosodiphenylamine		ND		23	370
Pentachlorophenol		ND		10	370
Phenol		ND		8.1	370
Phenanthrene		ND		0.81	370
Pyrene		ND		0.49	370
3 & 4 Methylphenol		ND		22	440

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	62		24 - 110
2-Fluorophenol (Surr)	61		24 - 110
2,4,6-Tribromophenol (Surr)	48		10 - 110
Nitrobenzene-d5 (Surr)	57		20 - 110
Phenol-d5 (Surr)	62		26 - 110
Terphenyl-d14 (Surr)	84		36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSW_12(20130731)**

Lab Sample ID: 240-27504-6 Date Sampled: 07/31/2013 1410
Client Matrix: Water Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-96170	Lab File ID:	0807012.D
Dilution:	6.66666			Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1147			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.28	1.3
Acenaphthylene	ND		0.31	1.3
Acetophenone	91		2.2	6.3
Anthracene	ND		0.56	1.3
Atrazine	ND		2.2	6.3
Benzaldehyde	ND		2.5	6.3
Benzo[a]anthracene	ND		0.19	1.3
Benzo[b]fluoranthene	ND		0.25	1.3
Benzo[k]fluoranthene	ND		0.28	1.3
Benzo[g,h,i]perylene	ND		0.29	1.3
Benzo[a]pyrene	ND		0.33	1.3
Butyl benzyl phthalate	ND		1.7	13
1,1'-Biphenyl	ND		0.83	6.3
Bis(2-chloroethoxy)methane	ND		2.0	6.3
Bis(2-chloroethyl)ether	ND		0.63	6.3
Bis(2-ethylhexyl) phthalate	ND		1.4	13
4-Bromophenyl phenyl ether	ND		1.4	13
Caprolactam	ND		1.3	32
Carbazole	ND		1.8	6.3
4-Chloroaniline	ND		1.3	13
4-Chloro-3-methylphenol	ND		1.3	13
2-Chloronaphthalene	ND		0.63	6.3
2-Chlorophenol	ND		1.8	6.3
4-Chlorophenyl phenyl ether	ND		1.9	13
Chrysene	ND		0.32	1.3
2-Methylnaphthalene	0.84	J	0.57	1.3
3 & 4 Methylphenol	ND		5.1	13
Dibenz(a,h)anthracene	ND		0.28	1.3
Dibenzofuran	ND		0.13	6.3
3,3'-Dichlorobenzidine	ND		2.3	32
2,4-Dichlorophenol	ND		1.2	13
Diethyl phthalate	ND		3.8	13
2,4-Dimethylphenol	11	J	1.6	13
Dimethyl phthalate	ND		1.8	13
4,6-Dinitro-2-methylphenol	ND		15	32
2,4-Dinitrophenol	ND		2.0	32
2,4-Dinitrotoluene	ND		1.6	32
Di-n-butyl phthalate	ND		4.3	13
Di-n-octyl phthalate	ND		1.5	13
Fluoranthene	ND		0.28	1.3
Fluorene	ND		0.26	1.3
Hexachlorobenzene	ND		0.54	1.3
Hexachlorobutadiene	ND		1.7	6.3
Hexachlorocyclopentadiene	ND	*	1.5	63
Hexachloroethane	ND		1.2	6.3
Indeno[1,2,3-cd]pyrene	ND		0.27	1.3

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SSSW_12(20130731)**

Lab Sample ID: 240-27504-6 Date Sampled: 07/31/2013 1410
Client Matrix: Water Date Received: 08/02/2013 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-96170	Lab File ID:	0807012.D
Dilution:	6.66666			Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1147			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.7	6.3
2-Methylphenol	ND		1.1	6.3
Naphthalene	130		0.40	1.3
2-Nitroaniline	ND		1.3	13
3-Nitroaniline	ND		1.8	13
4-Nitroaniline	ND		1.4	13
Nitrobenzene	ND		0.25	6.3
2-Nitrophenol	ND		1.8	13
4-Nitrophenol	ND		1.8	32
N-Nitrosodiphenylamine	ND		2.0	6.3
N-Nitrosodi-n-propylamine	ND		1.5	6.3
2,2'-oxybis[1-chloropropane]	ND		2.5	6.3
Pentachlorophenol	ND		1.7	32
Phenanthrene	ND		0.39	1.3
Phenol	ND		3.8	6.3
Pyrene	ND		0.27	1.3
2,4,5-Trichlorophenol	ND		1.9	32
2,4,6-Trichlorophenol	ND		1.5	32
2,6-Dinitrotoluene	ND		5.1	32

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	54		20 - 110
2-Fluorophenol (Surr)	35		10 - 110
2,4,6-Tribromophenol (Surr)	47		21 - 110
Nitrobenzene-d5 (Surr)	63		21 - 110
Phenol-d5 (Surr)	68		21 - 110
Terphenyl-d14 (Surr)	20	X	24 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **MB-002**

Lab Sample ID: 240-27504-8 Date Sampled: 08/01/2013 0000
Client Matrix: Solid Date Received: 08/02/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080612.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 1900			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		ND		0.32	10

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **GD_2(20130801)**

Lab Sample ID: 240-27504-9 Date Sampled: 08/01/2013 1415
Client Matrix: Solid % Moisture: 2.0 Date Received: 08/02/2013 0915

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-96334	Instrument ID:	YPID
Prep Method:	5035	Prep Batch:	240-96395	Lab File ID:	YF080613.D
Dilution:	1.0			Initial Weight/Volume:	10.916 g
Analysis Date:	08/06/2013 1939			Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)		1.4	J	0.30	9.3

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235
Client Matrix: Solid % Moisture: 11.5 Date Received: 08/02/2013 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	240-96464	Instrument ID:	I6
Prep Method:	3050B	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	08/06/2013 1242			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Barium		23	B	0.069	19
Cadmium		ND		0.035	0.19
Chromium		7.0		0.19	0.49
Silver		ND		0.097	0.49
Arsenic		1.6		0.29	0.97
Lead		1.6		0.19	0.29
Selenium		ND		0.44	0.49

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	240-96731	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	08/07/2013 1246			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.017	0.11

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240
Client Matrix: Solid % Moisture: 11.9 Date Received: 08/02/2013 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	240-96464	Instrument ID:	I6
Prep Method:	3050B	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	08/06/2013 1305			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Barium		28	B	0.078	22
Cadmium		ND		0.039	0.22
Chromium		8.3		0.22	0.55
Silver		ND		0.11	0.55
Arsenic		2.3		0.33	1.1
Lead		1.7		0.21	0.33
Selenium		ND		0.49	0.55

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	240-96731	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	08/07/2013 1254			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.015	0.10

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300
Client Matrix: Solid % Moisture: 9.9 Date Received: 08/02/2013 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	240-96464	Instrument ID:	I6
Prep Method:	3050B	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	08/06/2013 1311			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Barium		25	B	0.076	21
Cadmium		ND		0.038	0.21
Chromium		5.0		0.21	0.53
Silver		ND		0.11	0.53
Arsenic		1.9		0.32	1.1
Lead		1.7		0.20	0.32
Selenium		ND		0.48	0.53

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	240-96731	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	08/07/2013 1255			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.015	0.098

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305
Client Matrix: Solid % Moisture: 8.7 Date Received: 08/02/2013 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	240-96464	Instrument ID:	I6
Prep Method:	3050B	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	08/06/2013 1317			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Barium		25	B	0.073	20
Cadmium		ND		0.037	0.20
Chromium		5.9		0.20	0.51
Silver		ND		0.10	0.51
Arsenic		1.3		0.31	1.0
Lead		1.8		0.19	0.31
Selenium		ND		0.46	0.51

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	240-96731	Instrument ID:	H1
Prep Method:	7471A	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.58 g
Analysis Date:	08/07/2013 1257			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.017	0.11

General Chemistry

Client Sample ID: **SBNE_10(20130731)**

Lab Sample ID: 240-27504-1 Date Sampled: 07/31/2013 1235

Client Matrix: Solid Date Received: 08/02/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1106						DryWt Corrected: N
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1106						DryWt Corrected: N

General Chemistry

Client Sample ID: **SBNW_10(20130731)**

Lab Sample ID: 240-27504-2 Date Sampled: 07/31/2013 1240

Client Matrix: Solid Date Received: 08/02/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N

General Chemistry

Client Sample ID: **SBSE_10(20130731)**

Lab Sample ID: 240-27504-4 Date Sampled: 07/31/2013 1300

Client Matrix: Solid Date Received: 08/02/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N
Percent Moisture	9.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N

General Chemistry

Client Sample ID: **SBSW_10(20130731)**

Lab Sample ID: 240-27504-5 Date Sampled: 07/31/2013 1305

Client Matrix: Solid Date Received: 08/02/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N
Percent Moisture	8.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N

General Chemistry

Client Sample ID: **GD_2(20130801)**

Lab Sample ID: 240-27504-9 Date Sampled: 08/01/2013 1415

Client Matrix: Solid Date Received: 08/02/2013 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	98		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N
Percent Moisture	2.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 240-96163	Analysis Date: 08/05/2013 1110						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-96351					
LCS 240-96407/2-A	Lab Control Sample	T	Solid	8260B	240-96407
MB 240-96407/1-A	Method Blank	T	Solid	8260B	240-96407
Prep Batch: 240-96407					
LCS 240-96407/2-A	Lab Control Sample	T	Solid	5035	
MB 240-96407/1-A	Method Blank	T	Solid	5035	
240-27504-1	SBNE_10(20130731)	T	Solid	5035	
240-27504-2	SBNW_10(20130731)	T	Solid	5035	
240-27504-4	SBSE_10(20130731)	T	Solid	5035	
240-27504-5	SBSW_10(20130731)	T	Solid	5035	
240-27504-8	MB-002	T	Solid	5035	
240-27504-9	GD_2(20130801)	T	Solid	5035	
Analysis Batch:240-96767					
240-27504-2	SBNW_10(20130731)	T	Solid	8260B	240-96407
240-27504-4	SBSE_10(20130731)	T	Solid	8260B	240-96407
240-27504-5	SBSW_10(20130731)	T	Solid	8260B	240-96407
240-27504-8	MB-002	T	Solid	8260B	240-96407
240-27504-9	GD_2(20130801)	T	Solid	8260B	240-96407
Analysis Batch:240-96891					
240-27504-1	SBNE_10(20130731)	T	Solid	8260B	240-96407
Analysis Batch:240-97217					
LCS 240-97217/4	Lab Control Sample	T	Water	8260B	
MB 240-97217/5	Method Blank	T	Water	8260B	
240-27504-3	SSSN_12(20130731)	T	Water	8260B	
240-27504-6	SSSW_12(20130731)	T	Water	8260B	
240-27504-6MS	Matrix Spike	T	Water	8260B	
240-27504-6MSD	Matrix Spike Duplicate	T	Water	8260B	
240-27504-7	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 240-96170					
LCS 240-96170/18-A	Lab Control Sample	T	Water	3520C	
MB 240-96170/17-A	Method Blank	T	Water	3520C	
240-27498-Y-7-A MS	Matrix Spike	T	Water	3520C	
240-27498-AA-7-A MSD	Matrix Spike Duplicate	T	Water	3520C	
240-27504-3	SSSN_12(20130731)	T	Water	3520C	
240-27504-6	SSSW_12(20130731)	T	Water	3520C	
Analysis Batch:240-96468					
LCS 240-96170/18-A	Lab Control Sample	T	Water	8270C	240-96170
MB 240-96170/17-A	Method Blank	T	Water	8270C	240-96170
240-27498-Y-7-A MS	Matrix Spike	T	Water	8270C	240-96170
240-27498-AA-7-A MSD	Matrix Spike Duplicate	T	Water	8270C	240-96170
240-27504-3	SSSN_12(20130731)	T	Water	8270C	240-96170
240-27504-6	SSSW_12(20130731)	T	Water	8270C	240-96170
Prep Batch: 240-96533					
LCS 240-96533/24-A	Lab Control Sample	T	Solid	3540C	
MB 240-96533/23-A	Method Blank	T	Solid	3540C	
240-27504-1	SBNE_10(20130731)	T	Solid	3540C	
240-27504-2	SBNW_10(20130731)	T	Solid	3540C	
240-27504-4	SBSE_10(20130731)	T	Solid	3540C	
240-27504-5	SBSW_10(20130731)	T	Solid	3540C	
240-27597-E-9-B MS	Matrix Spike	T	Solid	3540C	
240-27597-E-9-C MSD	Matrix Spike Duplicate	T	Solid	3540C	
Analysis Batch:240-96845					
LCS 240-96533/24-A	Lab Control Sample	T	Solid	8270C	240-96533
MB 240-96533/23-A	Method Blank	T	Solid	8270C	240-96533
240-27504-1	SBNE_10(20130731)	T	Solid	8270C	240-96533
240-27504-2	SBNW_10(20130731)	T	Solid	8270C	240-96533
240-27504-4	SBSE_10(20130731)	T	Solid	8270C	240-96533
240-27504-5	SBSW_10(20130731)	T	Solid	8270C	240-96533
240-27597-E-9-B MS	Matrix Spike	T	Solid	8270C	240-96533
240-27597-E-9-C MSD	Matrix Spike Duplicate	T	Solid	8270C	240-96533

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:240-96334					
LCS 240-96395/2-A	Lab Control Sample	T	Solid	WI-GRO	240-96395
LCSD 240-96395/9-A	Lab Control Sample Duplicate	T	Solid	WI-GRO	240-96395
MB 240-96395/1-A	Method Blank	T	Solid	WI-GRO	240-96395
240-27504-8	MB-002	T	Solid	WI-GRO	240-96395
240-27504-9	GD_2(20130801)	T	Solid	WI-GRO	240-96395
Prep Batch: 240-96395					
LCS 240-96395/2-A	Lab Control Sample	T	Solid	5035	
LCSD 240-96395/9-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 240-96395/1-A	Method Blank	T	Solid	5035	
240-27504-8	MB-002	T	Solid	5035	
240-27504-9	GD_2(20130801)	T	Solid	5035	

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-96169					
LCS 240-96169/2-A	Lab Control Sample	T	Solid	3050B	
MB 240-96169/1-A	Method Blank	T	Solid	3050B	
240-27504-1	SBNE_10(20130731)	T	Solid	3050B	
240-27504-1MS	Matrix Spike	T	Solid	3050B	
240-27504-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
240-27504-2	SBNW_10(20130731)	T	Solid	3050B	
240-27504-4	SBSE_10(20130731)	T	Solid	3050B	
240-27504-5	SBSW_10(20130731)	T	Solid	3050B	
Prep Batch: 240-96185					
LCS 240-96185/2-A	Lab Control Sample	T	Solid	7471A	
MB 240-96185/1-A	Method Blank	T	Solid	7471A	
240-27504-1	SBNE_10(20130731)	T	Solid	7471A	
240-27504-1MS	Matrix Spike	T	Solid	7471A	
240-27504-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
240-27504-2	SBNW_10(20130731)	T	Solid	7471A	
240-27504-4	SBSE_10(20130731)	T	Solid	7471A	
240-27504-5	SBSW_10(20130731)	T	Solid	7471A	
Analysis Batch:240-96464					
LCS 240-96169/2-A	Lab Control Sample	T	Solid	6010B	240-96169
MB 240-96169/1-A	Method Blank	T	Solid	6010B	240-96169
240-27504-1	SBNE_10(20130731)	T	Solid	6010B	240-96169
240-27504-1MS	Matrix Spike	T	Solid	6010B	240-96169
240-27504-1MSD	Matrix Spike Duplicate	T	Solid	6010B	240-96169
240-27504-2	SBNW_10(20130731)	T	Solid	6010B	240-96169
240-27504-4	SBSE_10(20130731)	T	Solid	6010B	240-96169
240-27504-5	SBSW_10(20130731)	T	Solid	6010B	240-96169
Analysis Batch:240-96731					
LCS 240-96185/2-A	Lab Control Sample	T	Solid	7471A	240-96185
MB 240-96185/1-A	Method Blank	T	Solid	7471A	240-96185
240-27504-1	SBNE_10(20130731)	T	Solid	7471A	240-96185
240-27504-1MS	Matrix Spike	T	Solid	7471A	240-96185
240-27504-1MSD	Matrix Spike Duplicate	T	Solid	7471A	240-96185
240-27504-2	SBNW_10(20130731)	T	Solid	7471A	240-96185
240-27504-4	SBSE_10(20130731)	T	Solid	7471A	240-96185
240-27504-5	SBSW_10(20130731)	T	Solid	7471A	240-96185

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-96163					
240-27504-1	SBNE_10(20130731)	T	Solid	Moisture	
240-27504-2	SBNW_10(20130731)	T	Solid	Moisture	
240-27504-4	SBSE_10(20130731)	T	Solid	Moisture	
240-27504-5	SBSW_10(20130731)	T	Solid	Moisture	
240-27504-9	GD_2(20130801)	T	Solid	Moisture	
460-60521-A-2 DU	Duplicate	T	Solid	Moisture	
460-60521-A-3 DU	Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
240-27504-1	SBNE_10(20130731)	107	102	111	102
240-27504-2	SBNW_10(20130731)	94	94	101	93
240-27504-4	SBSE_10(20130731)	96	109	115	106
240-27504-5	SBSW_10(20130731)	103	110	120	109
240-27504-8	MB-002	107	116	124	117
240-27504-9	GD_2(20130801)	110	109	134X	121

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	26-141
DBFM = Dibromofluoromethane (Surr)	30-122
DCA = 1,2-Dichloroethane-d4 (Surr)	39-128
TOL = Toluene-d8 (Surr)	33-134

Client: ARCADIS U.S., Inc.

Job Number: 240-27504-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	BFB %Rec	DCA %Rec	TOL %Rec	DBFM %Rec
MB 240-96407/1-A		97	117	101	104
LCS 240-96407/2-A		102	122	102	107

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	26-141
DCA = 1,2-Dichloroethane-d4 (Surr)	39-128
TOL = Toluene-d8 (Surr)	33-134
DBFM = Dibromofluoromethane (Surr)	30-122

Client: ARCADIS U.S., Inc.

Job Number: 240-27504-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DCA %Rec	TOL %Rec	DBFM %Rec
MRL 240-97217/10		85	100	98	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	10-150
DCA = 1,2-Dichloroethane-d4 (Surr)	10-150
TOL = Toluene-d8 (Surr)	10-150
DBFM = Dibromofluoromethane (Surr)	10-150

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DCA %Rec	TOL %Rec	DBFM %Rec
MB 240-97217/5		79	106	92	103
LCS 240-97217/4		78	89	92	86
240-27504-6 MS	SSSW_12(20130731) MS	96	99	107	100
240-27504-6 MSD	SSSW_12(20130731) MSD	92	98	112	95

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	66-117
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
DBFM = Dibromofluoromethane (Surr)	75-121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec	DBFM %Rec
240-27504-3	SSSN_12(20130731)	103	77	96	88
240-27504-6	SSSW_12(20130731)	109	89	90	104
240-27504-7	TRIP BLANK	101	69	86	86

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
BFB = 4-Bromofluorobenzene (Surr)	66-117
TOL = Toluene-d8 (Surr)	74-115
DBFM = Dibromofluoromethane (Surr)	75-121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	TBP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
240-27504-1	SBNE_10(20130731)	70	70	54	65	70	87
240-27504-2	SBNW_10(20130731)	68	66	49	60	65	89
240-27504-4	SBSE_10(20130731)	63	65	54	60	65	91
240-27504-5	SBSW_10(20130731)	62	61	48	57	62	84
MB 240-96533/23-A		67	62	37	61	63	87
LCS 240-96533/24-A		72	70	65	68	70	85
240-27597-E-9-B MS		57	55	54	53	56	70
240-27597-E-9-C MSD		66	65	63	62	64	82

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	24-110
2FP = 2-Fluorophenol (Surr)	24-110
TBP = 2,4,6-Tribromophenol (Surr)	10-110
NBZ = Nitrobenzene-d5 (Surr)	20-110
PHL = Phenol-d5 (Surr)	26-110
TPH = Terphenyl-d14 (Surr)	36-110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	TBP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
240-27504-3	SSSN_12(20130731)	62	56	59	60	61	55
240-27504-6	SSSW_12(20130731)	54	35	47	63	68	20X
MB 240-96170/17-A		78	70	49	70	72	103
LCS 240-96170/18-A		82	76	79	80	80	98
240-27498-Y-7-A MS		64	63	80	66	67	80
240-27498-AA-7-A MSD		60	60	77	62	63	75

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	20-110
2FP = 2-Fluorophenol (Surr)	10-110
TBP = 2,4,6-Tribromophenol (Surr)	21-110
NBZ = Nitrobenzene-d5 (Surr)	21-110
PHL = Phenol-d5 (Surr)	21-110
TPH = Terphenyl-d14 (Surr)	24-110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96407 **Method: 8260B**
Preparation: 5035

Lab Sample ID:	MB 240-96407/1-A	Analysis Batch:	240-96351	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-96407	Lab File ID:	144102.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.0 g
Analysis Date:	08/06/2013 1913	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	08/06/2013 1325				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Allyl chloride	ND		53	500
1,2-Dibromo-3-Chloropropane	ND		50	500
2-Chlorotoluene	ND		9.0	250
Bromobenzene	ND		13	250
1,2-Dichlorobenzene	ND		8.6	250
1,3-Dichlorobenzene	ND		4.8	250
Bromochloromethane	ND		13	250
1,4-Dichlorobenzene	ND		8.0	250
4-Chlorotoluene	ND		9.9	250
1,1-Dichloroethane	ND		17	250
Acetone	ND		170	1000
1,2-Dichloroethane	ND		10	250
Benzene	ND		12	250
Bromoform	ND		19	250
1,1-Dichloroethene	ND		18	250
Bromomethane	ND		29	250
Carbon disulfide	27.8	J	12	250
1,2-Dichloropropane	ND		8.2	250
Carbon tetrachloride	ND		6.4	250
1,3-Dichloropropane	ND		22	250
Chlorobenzene	ND		6.4	250
2,2-Dichloropropane	ND		23	250
Chloroethane	ND		61	250
1,1-Dichloropropene	ND		10	250
Chloroform	ND		8.8	250
Chloromethane	ND		14	250
cis-1,2-Dichloroethene	ND		6.9	250
cis-1,3-Dichloropropene	ND		7.9	250
2-Hexanone	ND		20	1000
Cyclohexane	ND		40	500
Hexachlorobutadiene	ND		14	250
Dibromomethane	ND		14	250
Bromodichloromethane	ND		9.9	250
Dichlorodifluoromethane	ND		16	250
Dichlorofluoromethane	ND		25	500
Ethyl ether	ND		15	500
Ethylbenzene	ND		5.4	250
1,2-Dibromoethane	ND		10	250
Naphthalene	10.7	J	6.7	250
m-Xylene & p-Xylene	ND		6.2	500
n-Butylbenzene	ND		8.0	250
Isopropylbenzene	ND		6.5	250
p-Isopropyltoluene	ND		4.8	250
Methyl acetate	ND		25	500
N-Propylbenzene	ND		14	250

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96407 **Method: 8260B**
Preparation: 5035

Lab Sample ID:	MB 240-96407/1-A	Analysis Batch:	240-96351	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-96407	Lab File ID:	144102.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.0 g
Analysis Date:	08/06/2013 1913	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	08/06/2013 1325				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Butanone (MEK)	ND		43	1000
1,1,1,2-Tetrachloroethane	ND		9.1	250
4-Methyl-2-pentanone (MIBK)	ND		48	1000
1,1,2,2-Tetrachloroethane	ND		8.9	250
sec-Butylbenzene	ND		4.7	250
Methyl tert butyl ether	ND		7.1	250
Methylene Chloride	ND		77	250
o-Xylene	ND		8.5	250
Styrene	ND		5.6	250
tert-Butylbenzene	ND		6.5	250
Tetrachloroethene	ND		12	250
1,2,3-Trichlorobenzene	ND		10	250
Tetrahydrofuran	184	J	49	1000
1,2,4-Trichlorobenzene	7.53	J	7.3	250
Toluene	42.1	J	17	250
1,1,1-Trichloroethane	ND		21	250
1,1,2-Trichloroethane	ND		12	250
trans-1,2-Dichloroethene	ND		9.2	250
trans-1,3-Dichloropropene	ND		20	250
Trichloroethene	ND		9.7	250
1,2,3-Trichloropropane	ND		21	250
Trichlorofluoromethane	ND		16	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		39	250
1,2,4-Trimethylbenzene	ND		5.0	250
1,3,5-Trimethylbenzene	ND		5.8	250
Methylcyclohexane	ND		12	500
Chlorodibromomethane	ND		12	250
Vinyl chloride	ND		18	250

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	26 - 141
1,2-Dichloroethane-d4 (Surr)	117	39 - 128
Toluene-d8 (Surr)	101	33 - 134
Dibromofluoromethane (Surr)	104	30 - 122

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96407

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 240-96407/2-A	Analysis Batch:	240-96351	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-96407	Lab File ID:	144101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.0 g
Analysis Date:	08/06/2013 1852	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	08/06/2013 1325				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Allyl chloride	500	389	78	50 - 150	J
1,2-Dibromo-3-Chloropropane	500	390	78	10 - 129	J
2-Chlorotoluene	500	491	98	68 - 122	
Bromobenzene	500	503	101	72 - 120	
1,2-Dichlorobenzene	500	492	98	68 - 118	
1,3-Dichlorobenzene	500	497	99	66 - 121	
Bromochloromethane	500	527	105	56 - 128	
1,4-Dichlorobenzene	500	499	100	65 - 119	
4-Chlorotoluene	500	480	96	68 - 122	
1,1-Dichloroethane	500	526	105	63 - 117	
Acetone	1000	1030	103	16 - 156	
1,2-Dichloroethane	500	590	118	68 - 119	
Benzene	500	506	101	70 - 117	
Bromoform	500	403	81	10 - 117	
1,1-Dichloroethene	500	409	82	44 - 143	
Bromomethane	500	535	107	10 - 114	
Carbon disulfide	500	393	79	10 - 132	
1,2-Dichloropropane	500	503	101	73 - 113	
Carbon tetrachloride	500	527	105	29 - 118	
1,3-Dichloropropane	500	510	102	74 - 119	
Chlorobenzene	500	509	102	71 - 116	
2,2-Dichloropropane	500	400	80	25 - 123	
Chloroethane	500	419	84	10 - 120	
1,1-Dichloropropene	500	551	110	60 - 123	
Chloroform	500	517	103	63 - 116	
Chloromethane	500	394	79	25 - 110	
cis-1,2-Dichloroethene	500	488	98	60 - 125	
cis-1,3-Dichloropropene	500	443	89	25 - 120	
2-Hexanone	1000	1060	106	43 - 130	
Cyclohexane	500	499	100	40 - 120	J
Hexachlorobutadiene	500	469	94	34 - 135	
Dibromomethane	500	510	102	68 - 118	
Bromodichloromethane	500	447	89	28 - 123	
Dichlorodifluoromethane	500	257	51	10 - 110	
Dichlorofluoromethane	500	458	92		J
Ethyl ether	500	561	112	70 - 130	
Ethylbenzene	500	490	98	66 - 119	
1,2-Dibromoethane	500	486	97	47 - 123	
Naphthalene	500	424	85	37 - 126	
m-Xylene & p-Xylene	500	485	97	67 - 118	J
n-Butylbenzene	500	446	89	51 - 137	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96407

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 240-96407/2-A	Analysis Batch:	240-96351	Instrument ID:	A3UX14
Client Matrix:	Solid	Prep Batch:	240-96407	Lab File ID:	144101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.0 g
Analysis Date:	08/06/2013 1852	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	08/06/2013 1325				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isopropylbenzene	500	482	96	61 - 123	
p-Isopropyltoluene	500	462	92	56 - 136	
Methyl acetate	3000	3570	119	44 - 173	
N-Propylbenzene	500	482	96	64 - 130	
2-Butanone (MEK)	1000	1110	111	10 - 199	
1,1,1,2-Tetrachloroethane	500	498	100	27 - 121	
4-Methyl-2-pentanone (MIBK)	1000	1080	108	49 - 121	
1,1,2,2-Tetrachloroethane	500	490	98	54 - 121	
sec-Butylbenzene	500	471	94	58 - 131	
Methyl tert butyl ether	500	526	105	34 - 157	
Methylene Chloride	500	321	64	27 - 172	
o-Xylene	500	495	99	68 - 120	
Styrene	500	425	85	60 - 120	
tert-Butylbenzene	500	431	86	58 - 128	
Tetrachloroethene	500	542	108	58 - 131	
1,2,3-Trichlorobenzene	500	475	95	43 - 129	
Tetrahydrofuran	1000	1270	127	70 - 130	
1,2,4-Trichlorobenzene	500	470	94	41 - 135	
Toluene	500	530	106	66 - 123	
1,1,1-Trichloroethane	500	514	103	38 - 122	
1,1,2-Trichloroethane	500	509	102	74 - 114	
trans-1,2-Dichloroethene	500	482	96	58 - 121	
trans-1,3-Dichloropropene	500	453	91	22 - 122	
Trichloroethene	500	536	107	59 - 124	
1,2,3-Trichloropropane	500	535	107	74 - 124	
Trichlorofluoromethane	500	542	108	17 - 145	
1,1,2-Trichloro-1,2,2-trifluoroethane	500	479	96	48 - 151	
1,2,4-Trimethylbenzene	500	465	93	62 - 133	
1,3,5-Trimethylbenzene	500	479	96	60 - 130	
Methylcyclohexane	500	479	96	41 - 133	J
Chlorodibromomethane	500	448	90	22 - 113	
Vinyl chloride	500	364	73	33 - 110	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	26 - 141
1,2-Dichloroethane-d4 (Surr)	122	39 - 128
Toluene-d8 (Surr)	102	33 - 134
Dibromofluoromethane (Surr)	107	30 - 122

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 240-97217/5	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3935.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1157	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1157				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Allyl chloride	ND		0.35	2.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
2-Chlorotoluene	ND		0.11	1.0
Bromobenzene	ND		0.13	1.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
Bromochloromethane	ND		0.29	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
4-Chlorotoluene	ND		0.18	1.0
1,1-Dichloroethane	ND		0.15	1.0
Acetone	ND		1.1	10
1,2-Dichloroethane	ND		0.22	1.0
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
1,1-Dichloroethene	ND		0.19	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
Carbon tetrachloride	ND		0.13	1.0
1,3-Dichloropropane	ND		0.16	1.0
Chlorobenzene	ND		0.15	1.0
2,2-Dichloropropane	ND		0.13	1.0
Chloroethane	ND		0.29	1.0
1,1-Dichloropropene	ND		0.13	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
2-Hexanone	ND		0.41	10
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	2.0
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
p-Isopropyltoluene	ND		0.12	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 240-97217/5	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3935.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1157	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1157				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Butanone (MEK)	ND		0.57	10
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	1.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
Tetrahydrofuran	ND		0.42	5.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
Toluene	ND		0.13	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
Trichlorofluoromethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0
Vinyl chloride	ND		0.22	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	79	66 - 117
1,2-Dichloroethane-d4 (Surr)	106	63 - 129
Toluene-d8 (Surr)	92	74 - 115
Dibromofluoromethane (Surr)	103	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-97217/4	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3932.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1049	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1049				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	10.0	8.94	89	42 - 136	
2-Chlorotoluene	10.0	10.2	102	76 - 116	
Bromobenzene	10.0	9.98	100	76 - 115	
1,2-Dichlorobenzene	10.0	10.1	101	81 - 110	
1,3-Dichlorobenzene	10.0	10.2	102	80 - 110	
Bromochloromethane	10.0	8.50	85	77 - 120	
1,4-Dichlorobenzene	10.0	9.50	95	82 - 110	
4-Chlorotoluene	10.0	10.5	105	77 - 115	
1,1-Dichloroethane	10.0	9.73	97	82 - 115	
Acetone	20.0	14.6	73	43 - 136	
1,2-Dichloroethane	10.0	9.55	95	71 - 127	
Benzene	10.0	10.1	101	83 - 112	
Bromoform	10.0	7.69	77	40 - 131	
1,1-Dichloroethene	10.0	9.71	97	78 - 131	
Bromomethane	10.0	6.59	66	11 - 185	
Carbon disulfide	10.0	12.3	123	62 - 142	
1,2-Dichloropropane	10.0	10.2	102	81 - 115	
Carbon tetrachloride	10.0	9.88	99	66 - 128	
1,3-Dichloropropane	10.0	11.5	115	79 - 116	
Chlorobenzene	10.0	9.76	98	85 - 110	
2,2-Dichloropropane	10.0	9.98	100	50 - 129	
Chloroethane	10.0	7.51	75	25 - 153	
1,1-Dichloropropene	10.0	9.95	99	83 - 114	
Chloroform	10.0	9.31	93	79 - 117	
Chloromethane	10.0	8.58	86	44 - 126	
cis-1,2-Dichloroethene	10.0	8.97	90	80 - 113	
cis-1,3-Dichloropropene	10.0	9.51	95	61 - 115	
2-Hexanone	20.0	26.6	133	55 - 133	
Cyclohexane	10.0	10.4	104	54 - 121	
Hexachlorobutadiene	10.0	8.34	83	36 - 134	
Dibromomethane	10.0	9.85	99	81 - 120	
Bromodichloromethane	10.0	10.2	102	72 - 121	
Dichlorodifluoromethane	10.0	7.39	74	19 - 129	
Ethyl ether	10.0	9.23	92	53 - 135	
Ethylbenzene	10.0	9.82	98	83 - 112	
1,2-Dibromoethane	10.0	10.4	104	79 - 113	
Naphthalene	10.0	6.68	67	32 - 141	
m-Xylene & p-Xylene	20.0	19.9	100	83 - 113	
n-Butylbenzene	10.0	11.1	111	66 - 125	
Isopropylbenzene	10.0	8.57	86	75 - 114	
p-Isopropyltoluene	10.0	11.2	112	74 - 120	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-97217/4	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3932.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1049	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1049				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Methyl acetate	10.0	10.4	104	58 - 131	
N-Propylbenzene	10.0	10.3	103	74 - 121	
2-Butanone (MEK)	20.0	18.3	91	60 - 126	
1,1,1,2-Tetrachloroethane	10.0	9.78	98	72 - 116	
4-Methyl-2-pentanone (MIBK)	20.0	22.8	114	63 - 128	
1,1,2,2-Tetrachloroethane	10.0	10.7	107	68 - 118	
sec-Butylbenzene	10.0	10.4	104	70 - 117	
Methyl tert butyl ether	10.0	9.06	91	52 - 144	
Methylene Chloride	10.0	9.64	96	66 - 131	
o-Xylene	10.0	9.19	92	83 - 113	
Styrene	10.0	9.72	97	79 - 114	
tert-Butylbenzene	10.0	8.82	88	71 - 115	
Tetrachloroethene	10.0	10.1	101	79 - 114	
1,2,3-Trichlorobenzene	10.0	7.90	79	54 - 126	
Tetrahydrofuran	10.0	9.96	100	23 - 143	
1,2,4-Trichlorobenzene	10.0	7.91	79	48 - 135	
Toluene	10.0	10.3	103	84 - 111	
1,1,1-Trichloroethane	10.0	9.55	95	74 - 118	
1,1,2-Trichloroethane	10.0	11.4	114	80 - 112	*
trans-1,2-Dichloroethene	10.0	9.10	91	83 - 117	
trans-1,3-Dichloropropene	10.0	11.2	112	58 - 117	
Trichloroethene	10.0	9.62	96	76 - 117	
1,2,3-Trichloropropane	10.0	10.3	103	73 - 129	
Trichlorofluoromethane	10.0	8.51	85	49 - 157	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.3	103	74 - 151	
1,2,4-Trimethylbenzene	10.0	11.0	110	76 - 120	
1,3,5-Trimethylbenzene	10.0	10.5	105	72 - 118	
Methylcyclohexane	10.0	9.28	93	56 - 127	
Chlorodibromomethane	10.0	9.80	98	64 - 119	
Vinyl chloride	10.0	8.83	88	53 - 127	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	78	66 - 117
1,2-Dichloroethane-d4 (Surr)	89	63 - 129
Toluene-d8 (Surr)	92	74 - 115
Dibromofluoromethane (Surr)	86	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Reporting Limit Check - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MRL 240-97217/10	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3936.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1220	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1220				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	0.00100	ND	98	10 - 150	
2-Chlorotoluene	0.00100	ND	106	10 - 150	
Bromobenzene	0.00100	ND	114	10 - 150	
1,2-Dichlorobenzene	0.00100	ND	107	10 - 150	
1,3-Dichlorobenzene	0.00100	ND	108	10 - 150	
Bromochloromethane	0.00100	ND	116	10 - 150	
1,4-Dichlorobenzene	0.00100	ND	113	10 - 150	
4-Chlorotoluene	0.00100	ND	105	10 - 150	
1,1-Dichloroethane	0.00100	ND	131	10 - 150	
Acetone	0.0100	ND	55	10 - 150	
1,2-Dichloroethane	0.00100	ND	124	10 - 150	
Benzene	0.00100	ND	117	10 - 150	
Bromoform	0.00100	ND	131	10 - 150	
1,1-Dichloroethene	0.00100	ND	126	10 - 150	
Bromomethane	0.00100	ND	94	10 - 150	
Carbon disulfide	0.00100	ND	141	10 - 150	
1,2-Dichloropropane	0.00100	ND	113	10 - 150	
Carbon tetrachloride	0.00100	ND	109	10 - 150	
1,3-Dichloropropane	0.00100	ND	113	10 - 150	
Chlorobenzene	0.00100	ND	109	10 - 150	
2,2-Dichloropropane	0.00100	ND	116	10 - 150	
Chloroethane	0.00100	ND	100	10 - 150	
1,1-Dichloropropene	0.00100	ND	118	10 - 150	
Chloroform	0.00100	ND	120	10 - 150	
Chloromethane	0.00100	ND	126	10 - 150	
cis-1,2-Dichloroethene	0.00100	ND	115	10 - 150	
cis-1,3-Dichloropropene	0.00100	ND	121	10 - 150	
2-Hexanone	0.0100	ND	104	10 - 150	
Cyclohexane	0.00100	ND	110	10 - 150	
Hexachlorobutadiene	0.00100	ND	102	10 - 150	
Dibromomethane	0.00100	ND	119	10 - 150	
Bromodichloromethane	0.00100	ND	96	10 - 150	
Dichlorodifluoromethane	0.00100	ND	87	10 - 150	
Ethylbenzene	0.00100	ND	86	10 - 150	
1,2-Dibromoethane	0.00100	ND	110	10 - 150	
Naphthalene	0.00100	ND	101	10 - 150	
m-Xylene & p-Xylene	0.00200	ND	91	10 - 150	
n-Butylbenzene	0.00100	ND	83	10 - 150	
Isopropylbenzene	0.00100	ND	86	10 - 150	
p-Isopropyltoluene	0.00100	ND	76	10 - 150	
Methyl acetate	0.00200	ND	146	10 - 150	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Reporting Limit Check - Batch: 240-97217

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MRL 240-97217/10	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3936.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1220	Units:	ng/uL	Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1220				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Propylbenzene	0.00100	ND	101	10 - 150	
2-Butanone (MEK)	0.0100	ND	63	10 - 150	
1,1,1,2-Tetrachloroethane	0.00100	ND	94	10 - 150	
4-Methyl-2-pentanone (MIBK)	0.0100	ND	89	10 - 150	
1,1,2,2-Tetrachloroethane	0.00100	ND	130	10 - 150	
sec-Butylbenzene	0.00100	ND	88	10 - 150	
Methyl tert butyl ether	0.00100	ND	115	10 - 150	
Methylene Chloride	0.00100	ND	148	10 - 150	
o-Xylene	0.00100	ND	90	10 - 150	
Styrene	0.00100	ND	81	10 - 150	
tert-Butylbenzene	0.00100	ND	118	10 - 150	
Tetrachloroethene	0.00100	ND	103	10 - 150	
1,2,3-Trichlorobenzene	0.00100	ND	74	10 - 150	
Tetrahydrofuran	0.00100	ND	101	10 - 150	
1,2,4-Trichlorobenzene	0.00100	ND	78	10 - 150	
Toluene	0.00100	ND	114	10 - 150	
1,1,1-Trichloroethane	0.00100	ND	114	10 - 150	
1,1,2-Trichloroethane	0.00100	ND	125	10 - 150	
trans-1,2-Dichloroethene	0.00100	ND	126	10 - 150	
trans-1,3-Dichloropropene	0.00100	ND	106	10 - 150	
Trichloroethene	0.00100	ND	108	10 - 150	
1,2,3-Trichloropropane	0.00100	ND	137	10 - 150	
Trichlorofluoromethane	0.00100	ND	119	10 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00100	ND	122	10 - 150	
1,2,4-Trimethylbenzene	0.00100	ND	88	10 - 150	
1,3,5-Trimethylbenzene	0.00100	ND	94	10 - 150	
Methylcyclohexane	0.00100	ND	97	10 - 150	
Chlorodibromomethane	0.00100	ND	142	10 - 150	
Vinyl chloride	0.00100	ND	118	10 - 150	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	85	10 - 150
1,2-Dichloroethane-d4 (Surr)	100	10 - 150
Toluene-d8 (Surr)	98	10 - 150
Dibromofluoromethane (Surr)	102	10 - 150

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-97217

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3943.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1502			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1502				
Leach Date:	N/A				

MSD Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3944.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1524			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1524				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,2-Dibromo-3-Chloropropane	100	104	32 - 139	3	30		
2-Chlorotoluene	110	112	69 - 117	1	30		
Bromobenzene	99	104	71 - 116	5	30		
1,2-Dichlorobenzene	100	105	75 - 111	5	30		
1,3-Dichlorobenzene	100	101	73 - 110	1	30		
Bromochloromethane	103	100	73 - 121	3	30		
1,4-Dichlorobenzene	97	99	75 - 110	1	30		
4-Chlorotoluene	111	115	71 - 116	3	30		
1,1-Dichloroethane	113	114	79 - 116	1	30		
Acetone	87	94	33 - 145	8	30		
1,2-Dichloroethane	109	107	68 - 129	2	30		
Benzene	111	110	72 - 121	1	30		
Bromoform	90	86	32 - 128	5	30		
1,1-Dichloroethene	112	105	74 - 135	7	30		
Bromomethane	70	63	10 - 186	11	30		
Carbon disulfide	133	129	57 - 147	3	30		
1,2-Dichloropropane	112	111	78 - 115	1	30		
Carbon tetrachloride	106	106	59 - 129	0	30		
1,3-Dichloropropane	110	116	74 - 118	6	30		
Chlorobenzene	100	103	80 - 110	4	30		
2,2-Dichloropropane	103	104	38 - 127	1	30		
Chloroethane	85	78	21 - 165	9	30		
1,1-Dichloropropene	112	113	80 - 114	1	30		
Chloroform	106	106	76 - 118	0	30		
Chloromethane	101	98	33 - 132	3	30		
cis-1,2-Dichloroethene	103	104	70 - 120	1	30		
cis-1,3-Dichloropropene	82	87	51 - 110	5	30		
2-Hexanone	131	134	47 - 139	3	30		
Cyclohexane	115	115	49 - 123	0	30		
Hexachlorobutadiene	86	90	27 - 132	5	30		
Dibromomethane	109	108	77 - 121	0	30		
Bromodichloromethane	108	108	67 - 120	0	30		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-97217

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3943.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1502			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1502				
Leach Date:	N/A				

MSD Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3944.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1524			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1524				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dichlorodifluoromethane	82	81	17 - 128	2	30		
Ethyl ether	113	116	63 - 136	3	30		
Ethylbenzene	129	143	75 - 116	6	30	F	F
1,2-Dibromoethane	102	103	74 - 113	1	30		
Naphthalene	76	83	15 - 158	8	30		
m-Xylene & p-Xylene	150	141	75 - 117	2	30	E F	E F
n-Butylbenzene	113	116	56 - 127	2	30		
Isopropylbenzene	104	107	68 - 116	3	30		
p-Isopropyltoluene	112	114	64 - 122	2	30		
Methyl acetate	122	122	47 - 130	0	30		
N-Propylbenzene	113	116	64 - 124	2	30		
2-Butanone (MEK)	105	106	54 - 129	1	30		
1,1,1,2-Tetrachloroethane	107	116	64 - 118	8	30		
4-Methyl-2-pentanone (MIBK)	117	123	56 - 131	5	30		
1,1,2,2-Tetrachloroethane	114	116	63 - 122	2	30		
sec-Butylbenzene	106	110	60 - 119	4	30		
Methyl tert butyl ether	102	101	46 - 144	1	30		
Methylene Chloride	110	105	63 - 128	4	30		
o-Xylene	130	122	76 - 116	3	30	F	F
Styrene	123	122	71 - 117	1	30	F	F
tert-Butylbenzene	89	93	61 - 119	5	30		
Tetrachloroethene	100	102	70 - 117	1	30		
1,2,3-Trichlorobenzene	88	89	45 - 129	1	30		
Tetrahydrofuran	107	117	10 - 167	9	30		
1,2,4-Trichlorobenzene	86	89	38 - 138	3	30		
Toluene	119	130	78 - 114	7	30	F	F
1,1,1-Trichloroethane	103	102	68 - 121	1	30		
1,1,2-Trichloroethane	115	119	75 - 115	3	30		F
trans-1,2-Dichloroethene	109	105	80 - 119	3	30		
trans-1,3-Dichloropropene	96	108	46 - 116	12	30		
Trichloroethene	99	100	66 - 120	1	30		
1,2,3-Trichloropropane	101	106	67 - 132	5	30		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-97217

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3943.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1502			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1502				
Leach Date:	N/A				

MSD Lab Sample ID:	240-27504-6	Analysis Batch:	240-97217	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC3944.D
Dilution:	1250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/13/2013 1524			Final Weight/Volume:	5 mL
Prep Date:	08/13/2013 1524				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Trichlorofluoromethane	99	95	46 - 157	4	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	113	112	70 - 152	0	30		
1,2,4-Trimethylbenzene	134	134	67 - 124	0	30	F	F
1,3,5-Trimethylbenzene	117	125	63 - 121	5	30		F
Methylcyclohexane	100	101	49 - 127	1	30		
Chlorodibromomethane	99	97	56 - 118	3	30		
Vinyl chloride	101	98	49 - 130	3	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	92	66 - 117
1,2-Dichloroethane-d4 (Surr)	99	98	63 - 129
Toluene-d8 (Surr)	107	112	74 - 115
Dibromofluoromethane (Surr)	100	95	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96170 **Method: 8270C**
Preparation: 3520C

Lab Sample ID:	MB 240-96170/17-A	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/07/2013 0832	Units:	ug/L	Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	ND		0.13	1.0
2-Chloronaphthalene	ND		0.10	1.0
2-Chlorophenol	ND		0.29	1.0
4-Bromophenyl phenyl ether	ND		0.22	2.0
2-Methylnaphthalene	ND		0.090	0.20
4-Chloro-3-methylphenol	ND		0.21	2.0
4-Chloroaniline	ND		0.21	2.0
4-Chlorophenyl phenyl ether	ND		0.30	2.0
3,3'-Dichlorobenzidine	ND		0.37	5.0
2,4-Dichlorophenol	ND		0.19	2.0
Acenaphthene	ND		0.044	0.20
Acenaphthylene	ND		0.048	0.20
2,4-Dimethylphenol	ND		0.25	2.0
Acetophenone	ND		0.34	1.0
Anthracene	ND		0.088	0.20
4,6-Dinitro-2-methylphenol	ND		2.4	5.0
Atrazine	ND		0.34	1.0
2,4-Dinitrophenol	ND		0.32	5.0
Benzaldehyde	ND		0.39	1.0
2,4-Dinitrotoluene	ND		0.25	5.0
Benzo[a]anthracene	ND		0.030	0.20
Benzo[a]pyrene	ND		0.051	0.20
Benzo[b]fluoranthene	ND		0.039	0.20
Benzo[g,h,i]perylene	ND		0.046	0.20
Benzo[k]fluoranthene	ND		0.045	0.20
Bis(2-chloroethoxy)methane	ND		0.32	1.0
Bis(2-chloroethyl)ether	ND		0.10	1.0
Bis(2-ethylhexyl) phthalate	0.457	J	0.22	2.0
Butyl benzyl phthalate	ND		0.26	2.0
Caprolactam	ND		0.20	5.0
Carbazole	ND		0.28	1.0
2-Methylphenol	ND		0.17	1.0
Chrysene	ND		0.050	0.20
Dibenz(a,h)anthracene	ND		0.045	0.20
2-Nitroaniline	ND		0.21	2.0
Dibenzofuran	ND		0.020	1.0
3-Nitroaniline	ND		0.28	2.0
Diethyl phthalate	ND		0.60	2.0
4-Nitroaniline	ND		0.22	2.0
Dimethyl phthalate	ND		0.29	2.0
Di-n-butyl phthalate	ND		0.67	2.0
2-Nitrophenol	ND		0.28	2.0
Di-n-octyl phthalate	ND		0.23	2.0
4-Nitrophenol	ND		0.29	5.0
Fluoranthene	ND		0.045	0.20

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96170 **Method: 8270C**
Preparation: 3520C

Lab Sample ID:	MB 240-96170/17-A	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/07/2013 0832	Units:	ug/L	Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Fluorene	ND		0.041	0.20
Hexachlorobenzene	ND		0.085	0.20
2,2'-oxybis[1-chloropropane]	ND		0.40	1.0
Hexachlorobutadiene	ND		0.27	1.0
Hexachlorocyclopentadiene	ND		0.24	10
Hexachloroethane	ND		0.19	1.0
Indeno[1,2,3-cd]pyrene	ND		0.043	0.20
Isophorone	ND		0.27	1.0
2,4,5-Trichlorophenol	ND		0.30	5.0
Naphthalene	ND		0.063	0.20
2,4,6-Trichlorophenol	ND		0.24	5.0
Nitrobenzene	ND		0.040	1.0
N-Nitrosodi-n-propylamine	ND		0.24	1.0
N-Nitrosodiphenylamine	ND		0.31	1.0
Pentachlorophenol	ND		0.27	5.0
Phenol	ND		0.60	1.0
Phenanthrene	ND		0.062	0.20
Pyrene	ND		0.042	0.20
2,6-Dinitrotoluene	ND		0.80	5.0
3 & 4 Methylphenol	ND		0.80	2.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	78	20 - 110
2-Fluorophenol (Surr)	70	10 - 110
2,4,6-Tribromophenol (Surr)	49	21 - 110
Nitrobenzene-d5 (Surr)	70	21 - 110
Phenol-d5 (Surr)	72	21 - 110
Terphenyl-d14 (Surr)	103	24 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96170

Method: 8270C
Preparation: 3520C

Lab Sample ID:	LCS 240-96170/18-A	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/07/2013 0854	Units:	ug/L	Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	20.0	16.6	83	43 - 110	
2-Chloronaphthalene	20.0	16.5	82	43 - 110	
2-Chlorophenol	20.0	16.5	82	29 - 110	
4-Bromophenyl phenyl ether	20.0	16.9	85	45 - 110	
2-Methylnaphthalene	20.0	16.0	80	45 - 110	
4-Chloro-3-methylphenol	20.0	15.8	79	52 - 110	
4-Chloroaniline	20.0	16.0	80	44 - 110	
4-Chlorophenyl phenyl ether	20.0	16.8	84	47 - 110	
3,3'-Dichlorobenzidine	40.0	29.5	74	22 - 110	
2,4-Dichlorophenol	20.0	16.0	80	41 - 110	
Acenaphthene	20.0	17.0	85	47 - 110	
Acenaphthylene	20.0	16.0	80	49 - 110	
2,4-Dimethylphenol	20.0	14.4	72	32 - 110	
Acetophenone	20.0	16.9	84	46 - 110	
Anthracene	20.0	16.8	84	52 - 110	
4,6-Dinitro-2-methylphenol	40.0	27.1	68	31 - 110	
Atrazine	40.0	32.6	81	66 - 126	
2,4-Dinitrophenol	40.0	14.8	37	10 - 110	
Benzaldehyde	40.0	32.7	82	38 - 110	
2,4-Dinitrotoluene	20.0	18.6	93	53 - 110	
Benzo[a]anthracene	20.0	17.4	87	52 - 110	
Benzo[a]pyrene	20.0	16.0	80	44 - 110	
Benzo[b]fluoranthene	20.0	15.4	77	48 - 110	
Benzo[g,h,i]perylene	20.0	18.9	95	50 - 110	
Benzo[k]fluoranthene	20.0	19.2	96	49 - 110	
Bis(2-chloroethoxy)methane	20.0	16.9	85	43 - 110	
Bis(2-chloroethyl)ether	20.0	16.4	82	40 - 110	
Bis(2-ethylhexyl) phthalate	20.0	17.4	87	39 - 116	
Butyl benzyl phthalate	20.0	16.6	83	55 - 110	
Caprolactam	40.0	34.7	87	45 - 111	
Carbazole	20.0	18.3	92	55 - 110	
2-Methylphenol	20.0	15.7	78	42 - 110	
Chrysene	20.0	18.3	92	55 - 110	
Dibenz(a,h)anthracene	20.0	17.8	89	49 - 110	
2-Nitroaniline	20.0	16.2	81	54 - 110	
Dibenzofuran	20.0	17.0	85	51 - 110	
3-Nitroaniline	20.0	17.2	86	53 - 110	
Diethyl phthalate	20.0	17.5	87	58 - 110	
4-Nitroaniline	20.0	17.9	90	54 - 110	
Dimethyl phthalate	20.0	17.5	87	57 - 110	
Di-n-butyl phthalate	20.0	17.1	86	57 - 110	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96170

Method: 8270C
Preparation: 3520C

Lab Sample ID:	LCS 240-96170/18-A	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/07/2013 0854	Units:	ug/L	Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Nitrophenol	20.0	15.9	80	40 - 110	
Di-n-octyl phthalate	20.0	14.4	72	40 - 110	
4-Nitrophenol	40.0	33.3	83	33 - 112	
Fluoranthene	20.0	17.2	86	54 - 110	
Fluorene	20.0	17.1	86	52 - 110	
Hexachlorobenzene	20.0	16.2	81	50 - 110	
2,2'-oxybis[1-chloropropane]	20.0	15.6	78	37 - 110	
Hexachlorobutadiene	20.0	12.4	62	33 - 110	
Hexachlorocyclopentadiene	20.0	1.26	6	10 - 110	J *
Hexachloroethane	20.0	12.4	62	35 - 110	
Indeno[1,2,3-cd]pyrene	20.0	18.1	91	50 - 110	
Isophorone	20.0	14.6	73	49 - 110	
2,4,5-Trichlorophenol	20.0	16.1	81	48 - 110	
Naphthalene	20.0	16.3	82	44 - 110	
2,4,6-Trichlorophenol	20.0	15.3	77	45 - 110	
Nitrobenzene	20.0	16.3	82	42 - 110	
N-Nitrosodi-n-propylamine	20.0	15.0	75	47 - 110	
N-Nitrosodiphenylamine	40.0	33.4	83	50 - 110	
Pentachlorophenol	40.0	23.4	59	18 - 110	
Phenol	20.0	16.8	84	33 - 110	
Phenanthrene	20.0	17.0	85	53 - 110	
Pyrene	20.0	18.6	93	52 - 110	
2,6-Dinitrotoluene	20.0	17.6	88	54 - 110	
3 & 4 Methylphenol	20.0	15.9	79	44 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	82	20 - 110
2-Fluorophenol (Surr)	76	10 - 110
2,4,6-Tribromophenol (Surr)	79	21 - 110
Nitrobenzene-d5 (Surr)	80	21 - 110
Phenol-d5 (Surr)	80	21 - 110
Terphenyl-d14 (Surr)	98	24 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96170

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	240-27498-Y-7-A MS	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807031.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1839			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-27498-AA-7-A MSD	Analysis Batch:	240-96468	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-96170	Lab File ID:	0807032.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1050 mL
Analysis Date:	08/07/2013 1901			Final Weight/Volume:	2.0 mL
Prep Date:	08/05/2013 1006			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2-Methylnaphthalene	69	56	32 - 110	20	33		
Acenaphthene	70	56	35 - 110	20	30		
Acenaphthylene	65	53	33 - 110	20	30		
Anthracene	70	53	26 - 110	28	37		
Benzo[a]anthracene	76	56	16 - 110	30	30		
Benzo[a]pyrene	71	51	10 - 110	33	60		
Benzo[b]fluoranthene	73	52	10 - 110	33	45		
Benzo[g,h,i]perylene	58	40	10 - 110	36	60		
Benzo[k]fluoranthene	78	57	10 - 110	31	48		
Chrysene	77	57	17 - 110	30	30		
Dibenz(a,h)anthracene	62	43	10 - 111	36	63		
Fluoranthene	73	55	31 - 110	26	30		
Fluorene	71	57	36 - 110	21	30		
Indeno[1,2,3-cd]pyrene	64	44	10 - 110	37	58		
Naphthalene	67	56	28 - 110	18	80		
Phenanthrene	70	53	34 - 110	27	30		
Pyrene	76	58	32 - 110	26	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	64	60	20 - 110
2-Fluorophenol (Surr)	63	60	10 - 110
2,4,6-Tribromophenol (Surr)	80	77	21 - 110
Nitrobenzene-d5 (Surr)	66	62	21 - 110
Phenol-d5 (Surr)	67	63	21 - 110
Terphenyl-d14 (Surr)	80	75	24 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96533

Method: 8270C
Preparation: 3540C

Lab Sample ID:	MB 240-96533/23-A	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/09/2013 0858	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	ND		3.5	330
2-Chloronaphthalene	ND		0.45	330
2-Chlorophenol	ND		8.2	330
4-Bromophenyl phenyl ether	ND		13	330
2-Methylnaphthalene	ND		0.50	330
4-Chloro-3-methylphenol	ND		21	330
4-Chloroaniline	ND		17	330
4-Chlorophenyl phenyl ether	ND		13	330
3,3'-Dichlorobenzidine	ND		18	1600
2,4-Dichlorophenol	ND		20	330
Acenaphthene	ND		0.76	330
Acenaphthylene	ND		0.35	330
2,4-Dimethylphenol	ND		20	330
Acetophenone	ND		9.2	330
Anthracene	ND		0.78	330
4,6-Dinitro-2-methylphenol	ND		9.2	1600
Atrazine	ND		9.1	330
2,4-Dinitrophenol	ND		21	1600
Benzaldehyde	ND		12	330
2,4-Dinitrotoluene	ND		17	330
Benzo[a]anthracene	ND		0.63	330
Benzo[a]pyrene	ND		0.64	330
Benzo[b]fluoranthene	ND		0.59	330
Benzo[g,h,i]perylene	ND		0.35	330
Benzo[k]fluoranthene	ND		0.68	330
Bis(2-chloroethoxy)methane	ND		22	330
Bis(2-chloroethyl)ether	ND		2.0	330
Bis(2-ethylhexyl) phthalate	ND		19	330
Butyl benzyl phthalate	ND		10	330
Caprolactam	ND		37	330
Carbazole	ND		27	330
2-Methylphenol	ND		11	330
Chrysene	ND		1.1	330
Dibenz(a,h)anthracene	ND		0.66	330
2-Nitroaniline	ND		9.1	1600
Dibenzofuran	ND		0.66	330
3-Nitroaniline	ND		16	1600
Diethyl phthalate	ND		16	330
4-Nitroaniline	ND		26	1600
Dimethyl phthalate	ND		17	330
Di-n-butyl phthalate	24.2	J	15	330
2-Nitrophenol	ND		8.3	330
Di-n-octyl phthalate	ND		7.9	330
4-Nitrophenol	ND		17	1600
Fluoranthene	ND		0.55	330

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96533 **Method: 8270C**
Preparation: 3540C

Lab Sample ID:	MB 240-96533/23-A	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/09/2013 0858	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Fluorene	ND		0.53	330
Hexachlorobenzene	ND		2.1	330
2,2'-oxybis[1-chloropropane]	ND		9.5	330
Hexachlorobutadiene	ND		5.6	330
Hexachlorocyclopentadiene	ND		8.1	1600
Hexachloroethane	ND		9.0	330
Indeno[1,2,3-cd]pyrene	ND		0.35	330
Isophorone	ND		13	330
2,4,5-Trichlorophenol	ND		25	330
Naphthalene	ND		0.82	330
2,4,6-Trichlorophenol	ND		8.9	330
Nitrobenzene	ND		2.2	330
N-Nitrosodi-n-propylamine	ND		6.3	330
N-Nitrosodiphenylamine	ND		21	330
Pentachlorophenol	ND		9.1	330
Phenol	ND		7.3	330
Phenanthrene	ND		0.73	330
Pyrene	ND		0.44	330
2,6-Dinitrotoluene	ND		21	330
3 & 4 Methylphenol	ND		20	400

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	67	24 - 110
2-Fluorophenol (Surr)	62	24 - 110
2,4,6-Tribromophenol (Surr)	37	10 - 110
Nitrobenzene-d5 (Surr)	61	20 - 110
Phenol-d5 (Surr)	63	26 - 110
Terphenyl-d14 (Surr)	87	36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96533

Method: 8270C
Preparation: 3540C

Lab Sample ID:	LCS 240-96533/24-A	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/09/2013 0920	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	667	498	75	35 - 110	
2-Chloronaphthalene	667	485	73	32 - 110	
2-Chlorophenol	667	482	72	37 - 110	
4-Bromophenyl phenyl ether	667	499	75	39 - 110	
2-Methylnaphthalene	667	487	73	36 - 110	
4-Chloro-3-methylphenol	667	489	73	48 - 110	
4-Chloroaniline	667	416	62	30 - 110	
4-Chlorophenyl phenyl ether	667	502	75	40 - 110	
3,3'-Dichlorobenzidine	1330	610	46	28 - 110	J
2,4-Dichlorophenol	667	491	74	39 - 110	
Acenaphthene	667	497	75	38 - 110	
Acenaphthylene	667	463	69	40 - 110	
2,4-Dimethylphenol	667	505	76	29 - 110	
Acetophenone	667	415	62	40 - 110	
Anthracene	667	488	73	48 - 110	
4,6-Dinitro-2-methylphenol	1330	848	64	10 - 110	J
Atrazine	1330	972	73	66 - 127	
2,4-Dinitrophenol	1330	676	51	10 - 110	J
Benzaldehyde	1330	222	17	32 - 110	J *
2,4-Dinitrotoluene	667	522	78	48 - 110	
Benzo[a]anthracene	667	509	76	50 - 110	
Benzo[a]pyrene	667	488	73	44 - 110	
Benzo[b]fluoranthene	667	449	67	43 - 110	
Benzo[g,h,i]perylene	667	542	81	51 - 110	
Benzo[k]fluoranthene	667	542	81	38 - 105	
Bis(2-chloroethoxy)methane	667	480	72	32 - 110	
Bis(2-chloroethyl)ether	667	463	69	34 - 110	
Bis(2-ethylhexyl) phthalate	667	498	75	50 - 110	
Butyl benzyl phthalate	667	479	72	51 - 110	
Caprolactam	1330	1140	86	44 - 114	
Carbazole	667	531	80	50 - 110	
2-Methylphenol	667	464	70	41 - 110	
Chrysene	667	531	80	50 - 110	
Dibenz(a,h)anthracene	667	521	78	51 - 110	
2-Nitroaniline	667	481	72	45 - 110	J
Dibenzofuran	667	500	75	43 - 110	
3-Nitroaniline	667	452	68	44 - 110	J
Diethyl phthalate	667	500	75	52 - 110	
4-Nitroaniline	667	467	70	48 - 110	J
Dimethyl phthalate	667	502	75	50 - 110	
Di-n-butyl phthalate	667	515	77	51 - 110	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Lab Control Sample - Batch: 240-96533

Method: 8270C
Preparation: 3540C

Lab Sample ID:	LCS 240-96533/24-A	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/09/2013 0920	Units:	ug/Kg	Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Nitrophenol	667	466	70	34 - 110	
Di-n-octyl phthalate	667	429	64	48 - 110	
4-Nitrophenol	1330	983	74	28 - 110	J
Fluoranthene	667	504	76	51 - 110	
Fluorene	667	491	74	46 - 110	
Hexachlorobenzene	667	481	72	43 - 110	
2,2'-oxybis[1-chloropropane]	667	445	67	29 - 110	
Hexachlorobutadiene	667	486	73	29 - 110	
Hexachlorocyclopentadiene	667	272	41	12 - 110	J
Hexachloroethane	667	465	70	30 - 110	
Indeno[1,2,3-cd]pyrene	667	527	79	50 - 110	
Isophorone	667	416	62	36 - 110	
2,4,5-Trichlorophenol	667	471	71	25 - 110	
Naphthalene	667	485	73	36 - 110	
2,4,6-Trichlorophenol	667	437	66	12 - 110	
Nitrobenzene	667	473	71	32 - 110	
N-Nitrosodi-n-propylamine	667	439	66	38 - 110	
N-Nitrosodiphenylamine	1330	1000	75	46 - 110	
Pentachlorophenol	1330	704	53	10 - 110	
Phenol	667	484	73	38 - 110	
Phenanthrene	667	500	75	49 - 110	
Pyrene	667	531	80	49 - 110	
2,6-Dinitrotoluene	667	515	77	45 - 110	
3 & 4 Methylphenol	667	471	71	40 - 110	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	72	24 - 110
2-Fluorophenol (Surr)	70	24 - 110
2,4,6-Tribromophenol (Surr)	65	10 - 110
Nitrobenzene-d5 (Surr)	68	20 - 110
Phenol-d5 (Surr)	70	26 - 110
Terphenyl-d14 (Surr)	85	36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96533

Method: 8270C
Preparation: 3540C

MS Lab Sample ID:	240-27597-E-9-B MS	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.83 g
Analysis Date:	08/09/2013 1130			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-27597-E-9-C MSD	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.74 g
Analysis Date:	08/09/2013 1151			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1'-Biphenyl	59	69	32 - 110	17	32		
2-Chloronaphthalene	57	68	28 - 110	17	30		
2-Chlorophenol	56	66	10 - 110	16	47		
4-Bromophenyl phenyl ether	61	72	33 - 110	16	30		
2-Methylnaphthalene	57	66	10 - 133	15	42		
4-Chloro-3-methylphenol	59	68	25 - 110	14	54		
4-Chloroaniline	50	58	10 - 110	14	36		
4-Chlorophenyl phenyl ether	60	70	32 - 110	15	30		
3,3'-Dichlorobenzidine	42	42	10 - 110	2	56	J	J
2,4-Dichlorophenol	57	68	10 - 110	18	34		
Acenaphthene	60	70	22 - 110	15	99		
Acenaphthylene	56	65	24 - 110	15	99		
2,4-Dimethylphenol	64	74	10 - 110	15	31		
Acetophenone	48	58	31 - 110	18	43	J	
Anthracene	60	69	20 - 110	15	99		
4,6-Dinitro-2-methylphenol	48	49	10 - 110	1	55	J	J
Atrazine	60	69	45 - 118	15	30		
2,4-Dinitrophenol	37	31	10 - 110	16	99	J	J
Benzaldehyde	22	22	23 - 110	4	42	J F	J F
2,4-Dinitrotoluene	66	76	32 - 110	15	30		
Benzo[a]anthracene	63	73	10 - 122	16	99		
Benzo[a]pyrene	61	70	10 - 110	14	99		
Benzo[b]fluoranthene	58	66	12 - 118	13	99		
Benzo[g,h,i]perylene	64	74	10 - 117	15	99		
Benzo[k]fluoranthene	63	75	10 - 121	18	99		
Bis(2-chloroethoxy)methane	56	66	26 - 110	17	37		
Bis(2-chloroethyl)ether	55	64	21 - 110	16	55		
Bis(2-ethylhexyl) phthalate	63	74	40 - 110	16	30		
Butyl benzyl phthalate	61	71	44 - 110	16	30		
Caprolactam	67	80	10 - 134	18	32		
Carbazole	65	74	34 - 110	14	30		
2-Methylphenol	55	64	24 - 110	16	51		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96533

Method: 8270C
Preparation: 3540C

MS Lab Sample ID:	240-27597-E-9-B MS	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.83 g
Analysis Date:	08/09/2013 1130			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-27597-E-9-C MSD	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.74 g
Analysis Date:	08/09/2013 1151			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chrysene	66	77	10 - 125	16	99		
Dibenz(a,h)anthracene	63	71	14 - 113	13	99		
2-Nitroaniline	58	68	39 - 110	17	31	J	J
Dibenzofuran	60	70	29 - 110	15	30		
3-Nitroaniline	58	63	10 - 110	9	30	J	J
Diethyl phthalate	62	72	42 - 110	15	30		
4-Nitroaniline	63	60	10 - 110	4	48	J	J
Dimethyl phthalate	62	72	41 - 110	16	30		
Di-n-butyl phthalate	63	75	43 - 110	17	30		
2-Nitrophenol	57	65	10 - 110	14	49		
Di-n-octyl phthalate	55	64	24 - 119	15	30		
4-Nitrophenol	59	70	10 - 113	17	49	J	J
Fluoranthene	62	72	10 - 110	16	99		
Fluorene	60	71	23 - 110	17	99		
Hexachlorobenzene	59	67	34 - 110	13	30		
2,2'-oxybis[1-chloropropane]	52	60	11 - 110	15	42		
Hexachlorobutadiene	57	66	25 - 110	15	34		
Hexachlorocyclopentadiene	30	35	10 - 110	17	79	J	J
Hexachloroethane	53	62	12 - 110	16	50		
Indeno[1,2,3-cd]pyrene	63	76	10 - 114	19	99		
Isophorone	49	57	29 - 110	15	38		
2,4,5-Trichlorophenol	57	68	10 - 117	18	99		
Naphthalene	56	66	10 - 111	16	99		
2,4,6-Trichlorophenol	55	63	10 - 110	14	38		
Nitrobenzene	55	64	23 - 110	16	41		
N-Nitrosodi-n-propylamine	53	62	26 - 110	16	42		
N-Nitrosodiphenylamine	61	70	22 - 110	14	30		
Pentachlorophenol	45	47	10 - 110	4	50		
Phenol	57	67	17 - 110	16	53		
Phenanthrene	60	70	10 - 166	16	99		
Pyrene	66	76	10 - 147	15	99		
2,6-Dinitrotoluene	62	73	35 - 110	17	30		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96533

Method: 8270C
Preparation: 3540C

MS Lab Sample ID:	240-27597-E-9-B MS	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.83 g
Analysis Date:	08/09/2013 1130			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-27597-E-9-C MSD	Analysis Batch:	240-96845	Instrument ID:	A4AG2
Client Matrix:	Solid	Prep Batch:	240-96533	Lab File ID:	0809012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.74 g
Analysis Date:	08/09/2013 1151			Final Weight/Volume:	2 mL
Prep Date:	08/07/2013 1019			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
3 & 4 Methylphenol	56	65	25 - 110	15	50	J	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	57	66	24 - 110
2-Fluorophenol (Surr)	55	65	24 - 110
2,4,6-Tribromophenol (Surr)	54	63	10 - 110
Nitrobenzene-d5 (Surr)	53	62	20 - 110
Phenol-d5 (Surr)	56	64	26 - 110
Terphenyl-d14 (Surr)	70	82	36 - 110

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96395

Method: WI-GRO
Preparation: 5035

Lab Sample ID:	MB 240-96395/1-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 1507	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		0.32	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-96395

Method: WI-GRO
Preparation: 5035

LCS Lab Sample ID:	LCS 240-96395/2-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080607.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 1545	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 240-96395/9-A	Analysis Batch:	240-96334	Instrument ID:	YPID
Client Matrix:	Solid	Prep Batch:	240-96395	Lab File ID:	YF080614.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	08/06/2013 2017	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/06/2013 1206			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Gasoline Range Organics (C6-C10)	106	100	80 - 120	5	20		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96169

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 240-96169/1-A	Analysis Batch:	240-96464	Instrument ID:	I6
Client Matrix:	Solid	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	08/06/2013 1230	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	0.122	J	0.071	20
Cadmium	ND		0.036	0.20
Chromium	ND		0.20	0.50
Silver	ND		0.10	0.50
Arsenic	ND		0.30	1.0
Lead	ND		0.19	0.30
Selenium	ND		0.45	0.50

Lab Control Sample - Batch: 240-96169

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 240-96169/2-A	Analysis Batch:	240-96464	Instrument ID:	I6
Client Matrix:	Solid	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	08/06/2013 1236	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	200	201	101	80 - 120	
Cadmium	5.00	4.92	98	80 - 120	
Chromium	20.0	20.1	101	80 - 120	
Silver	5.00	5.04	101	80 - 120	
Arsenic	200	198	99	80 - 120	
Lead	50.0	49.5	99	80 - 120	
Selenium	200	196	98	80 - 120	

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96169

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	240-27504-1	Analysis Batch:	240-96464	Instrument ID:	I6
Client Matrix:	Solid	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/06/2013 1253			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				
Leach Date:	N/A				

MSD Lab Sample ID:	240-27504-1	Analysis Batch:	240-96464	Instrument ID:	I6
Client Matrix:	Solid	Prep Batch:	240-96169	Lab File ID:	I60806A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	08/06/2013 1259			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1005				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	88	92	75 - 125	3	20		
Cadmium	82	86	75 - 125	5	20		
Chromium	75	81	75 - 125	5	20		
Silver	88	93	75 - 125	6	20		
Arsenic	86	90	75 - 125	5	20		
Lead	83	88	75 - 125	5	20		
Selenium	84	89	75 - 125	5	20		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Method Blank - Batch: 240-96185

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 240-96185/1-A	Analysis Batch:	240-96731	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	08/07/2013 1243	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.015	0.10

Lab Control Sample - Batch: 240-96185

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 240-96185/2-A	Analysis Batch:	240-96731	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	08/07/2013 1245	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.833	0.790	95	73 - 121	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-96185

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	240-27504-1	Analysis Batch:	240-96731	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.56 g
Analysis Date:	08/07/2013 1251			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				
Leach Date:	N/A				

MSD Lab Sample ID:	240-27504-1	Analysis Batch:	240-96731	Instrument ID:	H1
Client Matrix:	Solid	Prep Batch:	240-96185	Lab File ID:	080713A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.56 g
Analysis Date:	08/07/2013 1252			Final Weight/Volume:	100 mL
Prep Date:	08/05/2013 1420				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	91	94	11 - 192	3	20		

Client: ARCADIS U.S., Inc. Job Number: 240-27504-1

Duplicate - Batch: 240-96163 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	460-60521-A-2 DU	Analysis Batch:	240-96163	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/05/2013 1106	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	93	93	1	20	
Percent Moisture	6.5	7.5	13	20	

Duplicate - Batch: 240-96163 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	460-60521-A-3 DU	Analysis Batch:	240-96163	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/05/2013 1110	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	91	92	1	20	
Percent Moisture	9.1	8.1	11	20	

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Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: N

Client Name: ARCADIS Client #:
Address: 430 First Ave N, Suite 720
City/State/Zip Code: Minneapolis MN 55401
Project Manager: Angharad Pagnon
Email Address: angharad.pagnon@arcadis-us.com
Telephone Number: 612-339-9434 Fax:
Sampler Name: (Print Name) Kelly Hoehn
Sampler Signature: Kelly Hoehn

Project Name: Ford TCAP
Project #: DE000440.0003
Site/Location ID: St. Paul State: MN
Report To: Angharad Pagnon
Invoice To: Accounts Payable
Quote #: PO#:

TAT: X Standard 2 WK; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)
Email Results: (Y) N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other
Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)
Analyze For: VOCs, SVOCs, RCRA Metals, GRO, Moisture

QC Deliverables: None; X Level 2 (Batch QC); Level 3; Level 4; Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	VOCs	SVOCs	RCRA Metals	GRO	Moisture	REMARKS
SBNE_10(20130731)	7/31/13	1235	G	N	S		X			1	2		1	1	1			
SBNW_10 (20130731)	7/31/13	1240	G	N	S		X			1	2		1	1	1			
SSSN_12 (20130731)	7/31/13	1250	G	N	GW		3				1		3	1				
SBSE_10 (20130731)	7/31/13	1300	G	N	S		X			1	2		1	1	1			
SBSW_10 (20130731)	7/31/13	1305	G	N	S		X			1	2		1	1	1			
SSSW_12 (20130731)	7/31/13	1410	G	N	GW		3				1		3	1				
Trip Blank	8/15/13	—	G	N	GW		1											
MB-002	8/1/13	—	G	N	GW					2			1			1		
Temp Blank	—	—	G	N	GW						1							
GD_2 (20130801)	8/01/13	1415	G	N	S					2	1		1			1	1	

240-27504 Chain of Custody

Special Instructions:

LABORATORY COMMENTS:

Relinquished By: Kelly Hoehn	Date: 8/1/13	Time: 1657	Received By:	Date: 8-1-13	Time: 1700
Relinquished By:	Date: 8-1-13	Time: 2100	Received By:	Date: 8-2-13	Time: 915
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

Page 1 of 1

Page 97 of 98

08/16/2013

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 27504**
Canton Facility

Client Arcadis Site Name _____ Cooler unpacked by:

Cooler Received on 8-7-13 Opened on 8-7-13

FedEx: 1st Grd EXP UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF -1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF 0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5	(CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF -0 °C) Observed Cooler Temp. 2.9 °C	Corrected Cooler Temp. 2.9 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Did all bottles arrive in good condition (Unbroken)?	Yes	No
7. Could all bottle labels be reconciled with the COC?	Yes	No
8. Were correct bottle(s) used for the test(s) indicated?	Yes	No
9. Sufficient quantity received to perform indicated analyses?	Yes	No
10. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC376062
11. Were VOAs on the COC?	Yes	No
12. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
13. Was a trip blank present in the cooler(s)?	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

August 14, 2013

Rob Ellis
ARCADIS
430 First Avenue North, Ste 720
Minneapolis, MN US 55401

Enovis project ID: E200572
Project: FORD-Twin Cities Assembly Plant
Project number: DE000440.0001.00005
Laboratory: TestAmerica - North Canton
Laboratory submittal: 27414-1
Sample date: 2013-07-29
Report received by Enovis: 2013-08-13
Initial Data Verification completed by Enovis: 2013-08-14

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the Enovis Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

5 Solid sample(s) were analyzed for GCMS VOC and GRO parameter(s).

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

Qualifiers added during verification have been added to the electronic data which is available for download from the Enovis CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

> GCMS VOC method blank had a detection above the RL for methylene chloride and below the RL for carbon disulfide, p&m-xylenes, naphthalene, styrene, tetrahydrofuran, toluene and 1,2,4-trichlorobenzene. Client samples -001, -002, -003, -004 and -005 results for carbon disulfide, p&m-xylenes, naphthalene, tetrahydrofuran and toluene should be considered to be non-detect at the RL and qualified with UB flags. Client samples -001, -002, -003, -004 and -005 methylene chloride results should be considered to be non-detect at the concentration reported and qualified with B flags. Client samples -003, -004 and -005 styrene results should be considered to be non-detect at the RL and qualified with UB flags.

The definitions of the qualifiers used for this data package are defined in the analytical report. Enovis valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory's analytical report access the Enovis CLMS at http://enovis-inc.com/enovis53/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

Enovis Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

Enovis Project ID: E200572
Laboratory: TestAmerica-North Canton
Laboratory Submittal: 27414-1

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	Volatile Organics by GCMS	Wisconsin GRO Method
240274141	GBNE_13(20130729)	7/29/2013	3:10:00	X	X
240274142	GBSE_13(20130729)	7/29/2013	3:15:00	X	X
240274143	GBSW_13(20130729)	7/29/2013	3:20:00	X	X
240274144	GBNW_13(20130729)	7/29/2013	3:25:00	X	X
240274145	MB-001(20130729)	7/29/2013	12:00:00	X	

Qualified Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27414-1

		Sample Name:	GBNE_13(20130729)				GBSE_13(20130729)				GBSW_13(20130729)				GBNW_13(20130729)				MB-001(20130729)			
		Lab Sample ID:	240274141				240274142				240274143				240274144				240274145			
		Sample Date:	7/29/2013				7/29/2013				7/29/2013				7/29/2013				7/29/2013			
Analyte	Cas No.		Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC																						
OSW-8260B																						
Carbon disulfide	75-15-0		63	280	ug/kg	**UB**	43	270	ug/kg	**UB**	46	230	ug/kg	**UB**	53	260	ug/kg	**UB**	65	250	ug/kg	**UB**
m-Xylene & p-Xylene	179601-23-1		7.9	560	ug/kg	**UB**	10	540	ug/kg	**UB**	6.0	460	ug/kg	**UB**	6.6	530	ug/kg	**UB**	9.5	500	ug/kg	**UB**
Methylene Chloride	75-09-2		600	280	ug/kg	**B**	490	270	ug/kg	**B**	330	230	ug/kg	**B**	550	260	ug/kg	**B**	480	250	ug/kg	**B**
Naphthalene	91-20-3		10	280	ug/kg	**UB**	22	270	ug/kg	**UB**	12	230	ug/kg	**UB**	10	260	ug/kg	**UB**	7.9	250	ug/kg	**UB**
Styrene	100-42-5										5.9	230	ug/kg	**UB**	6.4	260	ug/kg	**UB**	9.1	250	ug/kg	**UB**
Tetrahydrofuran	109-99-9		200	1100	ug/kg	**UB**	160	1100	ug/kg	**UB**	140	910	ug/kg	**UB**	200	1100	ug/kg	**UB**	220	1000	ug/kg	**UB**
Toluene	108-88-3		97	280	ug/kg	**UB**	66	270	ug/kg	**UB**	55	230	ug/kg	**UB**	83	260	ug/kg	**UB**	110	250	ug/kg	**UB**

UB and **B** - GCMS VOC method blank had a detection above the RL for methylene chloride and below the RL for carbon disulfide, p&m-xylenes, naphthalene, styrene, tetrahydrofuran, toluene and 1,2,4-trichlorobenzene. Client samples -001, -002, -003, -004 and -005 results for carbon disulfide, p&m-xylenes, naphthalene, tetrahydrofuran and toluene should be considered to be non-detect at the RL and qualified with UB flags. Client samples -001, -002, -003, -004 and -005 methylene chloride results should be considered to be non-detect at the concentration reported and qualified with B flags. Client samples -003, -004 and -005 styrene results should be considered to be non-detect at the RL and qualified with UB flags.

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27414-1

		Sample Name:	GBNE_13(20130729)				GBSE_13(20130729)				GBSW_13(20130729)			
		Lab Sample ID:	240274141				240274142				240274143			
		Sample Date:	7/29/2013				7/29/2013				7/29/2013			
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC														
	OSW-8260B													
	1,1,1,2-Tetrachloroethane	630-20-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1,1-Trichloroethane	71-55-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1,2,2-Tetrachloroethane	79-34-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1,2-Trichloroethane	79-00-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1-Dichloroethane	75-34-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1-Dichloroethene	75-35-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,1-Dichloropropene	563-58-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2,3-Trichlorobenzene	87-61-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2,3-Trichloropropane	96-18-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2,4-Trichlorobenzene	120-82-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2,4-Trimethylbenzene	95-63-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2-Dibromo-3-Chloropropane	96-12-8	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	1,2-Dibromoethane	106-93-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2-Dichlorobenzene	95-50-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2-Dichloroethane	107-06-2	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,2-Dichloropropane	78-87-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,3,5-Trimethylbenzene	108-67-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,3-Dichlorobenzene	541-73-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,3-Dichloropropane	142-28-9	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	1,4-Dichlorobenzene	106-46-7	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	2,2-Dichloropropane	594-20-7	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	2-Butanone (MEK)	78-93-3	54	1100	ug/kg	J	ND	1100	ug/kg	---	ND	910	ug/kg	---
	2-Chlorotoluene	95-49-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	2-Hexanone	591-78-6	ND	1100	ug/kg	---	ND	1100	ug/kg	---	ND	910	ug/kg	---
	4-Chlorotoluene	106-43-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	4-Methyl-2-pentanone (MIBK)	108-10-1	ND	1100	ug/kg	---	ND	1100	ug/kg	---	ND	910	ug/kg	---
	Acetone	67-64-1	ND	1100	ug/kg	---	ND	1100	ug/kg	---	ND	910	ug/kg	---
	Allyl chloride	107-05-1	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	Benzene	71-43-2	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Bromobenzene	108-86-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Bromochloromethane	74-97-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Bromodichloromethane	75-27-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Bromoform	75-25-2	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Bromomethane	74-83-9	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Carbon disulfide	75-15-0	63	280	ug/kg	UB	43	270	ug/kg	UB	46	230	ug/kg	UB
	Carbon tetrachloride	56-23-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Chlorobenzene	108-90-7	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Chlorodibromomethane	124-48-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Chloroethane	75-00-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Chloroform	67-66-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Chloromethane	74-87-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	cis-1,2-Dichloroethene	156-59-2	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	cis-1,3-Dichloropropene	10061-01-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Cyclohexane	110-82-7	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	Dibromomethane	74-95-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Dichlorodifluoromethane	75-71-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Dichlorofluoromethane	75-43-4	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	Ethyl ether	60-29-7	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	Ethylbenzene	100-41-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Hexachlorobutadiene	87-68-3	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Isopropylbenzene	98-82-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	m-Xylene & p-Xylene	179601-23-1	7.9	560	ug/kg	UB	10	540	ug/kg	UB	6.0	460	ug/kg	UB
	Methyl acetate	79-20-9	ND	560	ug/kg	---	110	540	ug/kg	J	49	460	ug/kg	J
	Methyl tert butyl ether	1634-04-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Methylcyclohexane	108-87-2	ND	560	ug/kg	---	ND	540	ug/kg	---	ND	460	ug/kg	---
	Methylene Chloride	75-09-2	600	280	ug/kg	B	490	270	ug/kg	B	330	230	ug/kg	B
	n-Butylbenzene	104-51-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	N-Propylbenzene	103-65-1	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Naphthalene	91-20-3	10	280	ug/kg	UB	22	270	ug/kg	UB	12	230	ug/kg	UB
	o-Xylene	95-47-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	p-Isopropyltoluene	99-87-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	sec-Butylbenzene	135-98-8	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Styrene	100-42-5	ND	280	ug/kg	---	ND	270	ug/kg	---	5.9	230	ug/kg	UB
	tert-Butylbenzene	98-06-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Tetrachloroethene	127-18-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Tetrahydrofuran	109-99-9	200	1100	ug/kg	UB	160	1100	ug/kg	UB	140	910	ug/kg	UB
	Toluene	108-88-3	97	280	ug/kg	UB	66	270	ug/kg	UB	55	230	ug/kg	UB
	trans-1,2-Dichloroethene	156-60-5	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	trans-1,3-Dichloropropene	10061-02-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Trichloroethene	79-01-6	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Trichlorofluoromethane	75-69-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
	Vinyl chloride	75-01-4	ND	280	ug/kg	---	ND	270	ug/kg	---	ND	230	ug/kg	---
GC VOC														
	PUBL-SW-140													
	WI Gasoline Range Organics (C6-C10)	E-1005	ND	11	mg/kg	---	ND	10	mg/kg	---	ND	10	mg/kg	---

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27414-1

		Sample Name:	GBNW_13(20130729)				MB-001(20130729)			
		Lab Sample ID:	240274144				240274145			
		Sample Date:	7/29/2013				7/29/2013			
	Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC										
OSW-8260B										
	1,1,1,2-Tetrachloroethane	630-20-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1,1-Trichloroethane	71-55-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1,2,2-Tetrachloroethane	79-34-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1,2-Trichloroethane	79-00-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1-Dichloroethane	75-34-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1-Dichloroethene	75-35-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,1-Dichloropropene	563-58-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2,3-Trichlorobenzene	87-61-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2,3-Trichloropropane	96-18-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2,4-Trichlorobenzene	120-82-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2,4-Trimethylbenzene	95-63-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2-Dibromo-3-Chloropropane	96-12-8	ND	530	ug/kg	---	ND	500	ug/kg	---
	1,2-Dibromoethane	106-93-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2-Dichlorobenzene	95-50-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2-Dichloroethane	107-06-2	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,2-Dichloropropane	78-87-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,3,5-Trimethylbenzene	108-67-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,3-Dichlorobenzene	541-73-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,3-Dichloropropane	142-28-9	ND	260	ug/kg	---	ND	250	ug/kg	---
	1,4-Dichlorobenzene	106-46-7	ND	260	ug/kg	---	ND	250	ug/kg	---
	2,2-Dichloropropane	594-20-7	ND	260	ug/kg	---	ND	250	ug/kg	---
	2-Butanone (MEK)	78-93-3	ND	1100	ug/kg	---	ND	1000	ug/kg	---
	2-Chlorotoluene	95-49-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	2-Hexanone	591-78-6	ND	1100	ug/kg	---	ND	1000	ug/kg	---
	4-Chlorotoluene	106-43-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	4-Methyl-2-pentanone (MIBK)	108-10-1	ND	1100	ug/kg	---	ND	1000	ug/kg	---
	Acetone	67-64-1	ND	1100	ug/kg	---	ND	1000	ug/kg	---
	Allyl chloride	107-05-1	ND	530	ug/kg	---	ND	500	ug/kg	---
	Benzene	71-43-2	ND	260	ug/kg	---	ND	250	ug/kg	---
	Bromobenzene	108-86-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	Bromochloromethane	74-97-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	Bromodichloromethane	75-27-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	Bromoform	75-25-2	ND	260	ug/kg	---	ND	250	ug/kg	---
	Bromomethane	74-83-9	ND	260	ug/kg	---	ND	250	ug/kg	---
	Carbon disulfide	75-15-0	53	260	ug/kg	UB	65	250	ug/kg	UB
	Carbon tetrachloride	56-23-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	Chlorobenzene	108-90-7	ND	260	ug/kg	---	ND	250	ug/kg	---
	Chlorodibromomethane	124-48-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	Chloroethane	75-00-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	Chloroform	67-66-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	Chloromethane	74-87-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	cis-1,2-Dichloroethene	156-59-2	ND	260	ug/kg	---	ND	250	ug/kg	---
	cis-1,3-Dichloropropene	10061-01-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	Cyclohexane	110-82-7	ND	530	ug/kg	---	ND	500	ug/kg	---
	Dibromomethane	74-95-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	Dichlorodifluoromethane	75-71-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	Dichlorofluoromethane	75-43-4	ND	530	ug/kg	---	ND	500	ug/kg	---
	Ethyl ether	60-29-7	ND	530	ug/kg	---	ND	500	ug/kg	---
	Ethylbenzene	100-41-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	Hexachlorobutadiene	87-68-3	ND	260	ug/kg	---	ND	250	ug/kg	---
	Isopropylbenzene	98-82-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	m-Xylene & p-Xylene	179601-23-1	6.6	530	ug/kg	UB	9.5	500	ug/kg	UB
	Methyl acetate	79-20-9	29	530	ug/kg	J	ND	500	ug/kg	---
	Methyl tert butyl ether	1634-04-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	Methylcyclohexane	108-87-2	ND	530	ug/kg	---	ND	500	ug/kg	---
	Methylene Chloride	75-09-2	550	260	ug/kg	B	480	250	ug/kg	B
	n-Butylbenzene	104-51-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	N-Propylbenzene	103-65-1	ND	260	ug/kg	---	ND	250	ug/kg	---
	Naphthalene	91-20-3	10	260	ug/kg	UB	7.9	250	ug/kg	UB
	o-Xylene	95-47-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	p-Isopropyltoluene	99-87-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	sec-Butylbenzene	135-98-8	ND	260	ug/kg	---	ND	250	ug/kg	---
	Styrene	100-42-5	6.4	260	ug/kg	UB	9.1	250	ug/kg	UB
	tert-Butylbenzene	98-06-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	Tetrachloroethene	127-18-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	Tetrahydrofuran	109-99-9	200	1100	ug/kg	UB	220	1000	ug/kg	UB
	Toluene	108-88-3	83	260	ug/kg	UB	110	250	ug/kg	UB
	trans-1,2-Dichloroethene	156-60-5	ND	260	ug/kg	---	ND	250	ug/kg	---
	trans-1,3-Dichloropropene	10061-02-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	Trichloroethene	79-01-6	ND	260	ug/kg	---	ND	250	ug/kg	---
	Trichlorofluoromethane	75-69-4	ND	260	ug/kg	---	ND	250	ug/kg	---
	Vinyl chloride	75-01-4	ND	260	ug/kg	---	ND	250	ug/kg	---
GC VOC										
PUBL-SW-140										
	WI Gasoline Range Organics (C6-C10)	E-1005	ND	10	mg/kg	---				

August 19, 2013

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Enovis project ID: E200572
Project: FORD-Twin Cities Assembly Plant
Project number: DE000440.0001.00005
Laboratory: TestAmerica - North Canton
Laboratory submittal: 27504-1
Sample date: 2013-08-01 2013-07-31
Report received by Enovis: 2013-08-16
Initial Data Verification completed by Enovis: 2013-08-19

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the Enovis Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

2 Water sample(s) were analyzed for GCMS VOC and GCMS SVOC parameter(s). 1 Trip blank was analyzed for GCMS VOC parameters.
6 Solid sample(s) were analyzed for GCMS VOC, GCMS SVOC, GC VOC and Metals parameter(s).

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD RPD, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

Qualifiers added during verification have been added to the electronic data which is available for download from the Enovis CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The following minor QC exceptions or missing information were noted:

GCMS VOC surrogate recoveries were outliers biased high for 1 out of 4 surrogates in client sample -009. All GCMS VOC results detected above the RL for this sample should be considered to be estimated and qualified with J flags. Non-detect results do not require qualification based on this high bias outlier.

GCMS VOC QC batch 96407 solid matrix method blank had detections below the RL for carbon disulfide, naphthalene, tetrahydrofuran, 1,2,4-trichlorobenzene and toluene. Client samples -001, -002, -004, -005, -008 and -009 carbon disulfide, tetrahydrofuran and toluene results and client samples -001, -002, -004, -005 and -009 naphthalene results should be considered to be non-detect at the RL and qualified with UB flags.

GCMS VOC water QC batch LCS recoveries were outliers biased high for 1,1,2-trichloroethane. Qualification of client sample results is not required based on this high bias QC outlier.

GCMS VOC client sample -006 MS/MSD recoveries were outliers biased high for ethylbenzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene, styrene and toluene. MS or MSD recoveries but not both were outliers biased high for 1,1,2-trichloroethane and 1,3,5-trimethylbenzene. Client sample -006 ethyl benzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene and toluene results should be considered to be estimated and qualified with J flags.

GCMS VOC trip blank had a detection below the RL for toluene. Qualification of client sample results was not required based on this trip blank detection (results already qualified due to method blank detections.

GCMS SVOC client sample -006 surrogate recoveries were outliers biased low but greater than 10% for 1 out of 3 of the base-neutral fraction surrogates. Qualification of client sample results was not required based on this QC outlier alone.

GCMS SVOC QC batch 96170 water method blank had a detection below the RL for bis-2-ethylhexylphthalate. Client sample -003 result for this analyte should be considered to be non-detect at the RL and qualified with a UB flag.

GCMS SVOC QC batch 96533 solid matrix method blank had a detection below the RL for di-n-butylphthalate. Client samples -001, -002, -004 and -005 results for this analyte should be considered to be non-detect at the RL and qualified with UB flags.

GCMS SVOC QC batch 96170 water matrix LCS recoveries were outliers biased low for hexachlorocyclopentadiene. Client samples -003 and -006 results for this analyte should be considered to be estimated and qualified with UJ flags.

GCMS SVOC QC batch 96533 solid matrix LCS recoveries were outliers biased low for benzaldehyde. Client samples -001, -002, -004 and -005 results for this analyte should be considered to be estimated and qualified with UJ flags.

GCMS SVOC QC batch 96533 MS/MSD recovery outliers were not performed on a sample from this submittal. Qualification of client sample results was not required based on these sample-specific QC outliers.

Metals QC batch 96169 solid matrix method blank had a detection below the RL for barium. Qualification of client sample results was not required based on this method blank detection.

The definitions of the qualifiers used for this data package are defined in the analytical report. Enovis valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory's analytical report access the Enovis CLMS at http://enovis-inc.com/enovis53/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

22226 Garrison, Dearborn MI 48124 (313) 871-5800

Enovis Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

SAMPLING AND ANALYSIS SUMMARY

Enovis Project ID: E200572
Laboratory: TestAmerica-North Canton
Laboratory Submittal: 27504-1

Lab Sample ID	Sample ID	Collection Date (mm/yy/dd)	Collection Time (hh:mm:ss)	Volatile Organics by GCMS	Semivolatiles by GCMS	Wisconsin GRO Method	Metals by ICP Spectroscopy	Mercury in Solid Waste
240275041	SBNE_10(20130731)	7/31/2013	12:35:00	X	X		X	X
240275042	SBNW_10(20130731)	7/31/2013	12:40:00	X	X		X	X
240275043	SSSN_12(20130731)	7/31/2013	12:50:00	X	X			
240275044	SBSE_10(20130731)	7/31/2013	1:00:00	X	X		X	X
240275045	SBSW_10(20130731)	7/31/2013	1:05:00	X	X		X	X
240275046	SSSW_12(20130731)	7/31/2013	2:10:00	X	X			
240275047	TRIP BLANK	8/1/2013	12:00:00	X				
240275048	MB-002	8/1/2013	12:00:00	X		X		
240275049	GD_2(20130801)	8/1/2013	2:15:00	X		X		

Qualified Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBNE_10(20130731)				SBNW_10(20130731)			
		Lab Sample ID:	240275041				240275042			
		Sample Date:	7/31/2013				7/31/2013			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC									
OSW-8260B									
1,2,4-Trimethylbenzene	95-63-6								
Carbon disulfide	75-15-0	32	250	ug/kg	**UB**	32	260	ug/kg	**UB**
Ethylbenzene	100-41-4								
m-Xylene & p-Xylene	179601-23-1								
Methyl acetate	79-20-9								
Naphthalene	91-20-3	8.7	250	ug/kg	**UB**	7.9	260	ug/kg	**UB**
o-Xylene	95-47-6								
Tetrahydrofuran	109-99-9	200	1000	ug/kg	**UB**	180	1000	ug/kg	**UB**
Toluene	108-88-3	62	250	ug/kg	**UB**	59	260	ug/kg	**UB**
GC/MS SVOC									
OSW-8270C									
Benzaldehyde	100-52-7	ND	370	ug/kg	**UJ**	ND	380	ug/kg	**UJ**
Bis(2-ethylhexyl) phthalate	117-81-7								
Di-n-butyl phthalate	84-74-2	34	370	ug/kg	**UB**	33	380	ug/kg	**UB**
Hexachlorocyclopentadiene	77-47-4								

GCMS VOC surrogate recoveries were outliers biased high for 1 out of 4 surrogates in client sample **-009**. All **GCMS VOC** results detected above the RL for this sample should be considered to be estimated and qualified with J flags. Non-detect results do not require qualification based on this high bias outlier.

GCMS VOC QC batch 96407 solid matrix method blank had detections below the RL for carbon disulfide, naphthalene, tetrahydrofuran, 1,2,4-trichlorobenzene and toluene. Client samples **-001, -002, -004, -005, -008 and -009 carbon disulfide, tetrahydrofuran and toluene** results and client samples **-001, -002, -004, -005 and -009 naphthalene** results should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS VOC client sample **-006** MS/MSD recoveries were outliers biased high for ethylbenzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene, styrene and toluene. MS or MSD recoveries but not both were outliers biased high for 1,1,2-trichloroethane and 1,3,5-trimethylbenzene. Client sample **-006 ethyl benzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene and toluene** results should be considered to be estimated and qualified with **J** flags.

GCMS SVOC QC batch 96170 water method blank had a detection below the RL for **bis-2-ethylhexylphthalate**. Client sample **-003** result for this analyte should be considered to be non-detect at the RL and qualified with a **UB** flag.

GCMS SVOC QC batch 96533 solid matrix method blank had a detection below the RL for **di-n-butylphthalate**. Client samples **-001, -002, -004 and -005** results for this analyte should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS SVOC QC batch 96170 water matrix LCS recoveries were outliers biased low for **hexachlorocyclopentadiene. Client samples -003 and -006** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

GCMS SVOC QC batch 96533 solid matrix LCS recoveries were outliers biased low for **benzaldehyde. Client samples -001, -002, -004 and -005** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

Qualified Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SSSN_12(20130731)				SBSE_10(20130731)			
		Lab Sample ID:	240275043				240275044			
		Sample Date:	7/31/2013				7/31/2013			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC									
OSW-8260B									
1,2,4-Trimethylbenzene	95-63-6								
Carbon disulfide	75-15-0					40	280	ug/kg	**UB**
Ethylbenzene	100-41-4								
m-Xylene & p-Xylene	179601-23-1								
Methyl acetate	79-20-9								
Naphthalene	91-20-3					8.6	280	ug/kg	**UB**
o-Xylene	95-47-6								
Tetrahydrofuran	109-99-9					160	1100	ug/kg	**UB**
Toluene	108-88-3					58	280	ug/kg	**UB**
GC/MS SVOC									
OSW-8270C									
Benzaldehyde	100-52-7					ND	360	ug/kg	**UJ**
Bis(2-ethylhexyl) phthalate	117-81-7	0.25	1.9	ug/l	**UB**				
Di-n-butyl phthalate	84-74-2					36	360	ug/kg	**UB**
Hexachlorocyclopentadiene	77-47-4	ND	9.5	ug/l	**UJ**				

GCMS VOC surrogate recoveries were outliers biased high for 1 out of 4 surrogates in client sample **-009**. All **GCMS VOC** results detected above the RL for this sample should be considered to be estimated and qualified with J flags. Non-detect results do not require qualification based on this high bias outlier.

GCMS VOC QC batch 96407 solid matrix method blank had detections below the RL for carbon disulfide, naphthalene, tetrahydrofuran, 1,2,4-trichlorobenzene and toluene. Client samples **-001, -002, -004, -005, -008 and -009 carbon disulfide, tetrahydrofuran and toluene** results and client samples **-001, -002, -004, -005 and -009 naphthalene** results should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS VOC client sample **-006** MS/MSD recoveries were outliers biased high for ethylbenzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene, styrene and toluene. MS or MSD recoveries but not both were outliers biased high for 1,1,2-trichloroethane and 1,3,5-trimethylbenzene. Client sample **-006 ethyl benzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene and toluene** results should be considered to be estimated and qualified with **J** flags.

GCMS SVOC QC batch 96170 water method blank had a detection below the RL for **bis-2-ethylhexylphthalate**. Client sample **-003** result for this analyte should be considered to be non-detect at the RL and qualified with a **UB** flag.

GCMS SVOC QC batch 96533 solid matrix method blank had a detection below the RL for **di-n-butylphthalate**. Client samples **-001, -002, -004 and -005** results for this analyte should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS SVOC QC batch 96170 water matrix LCS recoveries were outliers biased low for **hexachlorocyclopentadiene. Client samples -003 and -006** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

GCMS SVOC QC batch 96533 solid matrix LCS recoveries were outliers biased low for **benzaldehyde. Client samples -001, -002, -004 and -005** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

Qualified Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBSW_10(20130731)				SSSW_12(20130731)			
		Lab Sample ID:	240275045				240275046			
		Sample Date:	7/31/2013				7/31/2013			
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC										
	OSW-8260B									
	1,2,4-Trimethylbenzene	95-63-6					5100	1300	ug/l	**J**
	Carbon disulfide	75-15-0	32	260	ug/kg	**UB**				
	Ethylbenzene	100-41-4					12000	1300	ug/l	**J**
	m-Xylene & p-Xylene	179601-23-1					68000	2500	ug/l	**J**
	Methyl acetate	79-20-9								
	Naphthalene	91-20-3	7.6	260	ug/kg	**UB**				
	o-Xylene	95-47-6					16000	1300	ug/l	**J**
	Tetrahydrofuran	109-99-9	170	1000	ug/kg	**UB**				
	Toluene	108-88-3	56	260	ug/kg	**UB**	3300	1300	ug/l	**J**
GC/MS SVOC										
	OSW-8270C									
	Benzaldehyde	100-52-7	ND	370	ug/kg	**UJ**				
	Bis(2-ethylhexyl) phthalate	117-81-7								
	Di-n-butyl phthalate	84-74-2	35	370	ug/kg	**UB**				
	Hexachlorocyclopentadiene	77-47-4					ND	63	ug/l	**UJ**

GCMS VOC surrogate recoveries were outliers biased high for 1 out of 4 surrogates in client sample **-009**. All **GCMS VOC** results detected above the RL for this sample should be considered to be estimated and qualified with J flags. Non-detect results do not require qualification based on this high bias outlier.

GCMS VOC QC batch 96407 solid matrix method blank had detections below the RL for carbon disulfide, naphthalene, tetrahydrofuran, 1,2,4-trichlorobenzene and toluene. Client samples **-001, -002, -004, -005, -008 and -009 carbon disulfide, tetrahydrofuran and toluene** results and client samples **-001, -002, -004, -005 and -009 naphthalene** results should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS VOC client sample **-006** MS/MSD recoveries were outliers biased high for ethylbenzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene, styrene and toluene. MS or MSD recoveries but not both were outliers biased high for 1,1,2-trichloroethane and 1,3,5-trimethylbenzene. Client sample **-006 ethyl benzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene and toluene** results should be considered to be estimated and qualified with **J** flags.

GCMS SVOC QC batch 96170 water method blank had a detection below the RL for **bis-2-ethylhexylphthalate**. Client sample **-003** result for this analyte should be considered to be non-detect at the RL and qualified with a **UB** flag.

GCMS SVOC QC batch 96533 solid matrix method blank had a detection below the RL for **di-n-butylphthalate**. Client samples **-001, -002, -004 and -005** results for this analyte should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS SVOC QC batch 96170 water matrix LCS recoveries were outliers biased low for **hexachlorocyclopentadiene. Client samples -003 and -006** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

GCMS SVOC QC batch 96533 solid matrix LCS recoveries were outliers biased low for **benzaldehyde. Client samples -001, -002, -004 and -005** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

Qualified Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	MB-002				GD_2(20130801)			
		Lab Sample ID:	240275048				240275049			
		Sample Date:	8/1/2013				8/1/2013			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS VOC									
OSW-8260B									
1,2,4-Trimethylbenzene	95-63-6								
Carbon disulfide	75-15-0	36	250	ug/kg	**UB**	30	240	ug/kg	**UB**
Ethylbenzene	100-41-4								
m-Xylene & p-Xylene	179601-23-1								
Methyl acetate	79-20-9					600	480	ug/kg	**J**
Naphthalene	91-20-3					51	240	ug/kg	**UB**
o-Xylene	95-47-6								
Tetrahydrofuran	109-99-9	140	1000	ug/kg	**UB**	160	960	ug/kg	**UB**
Toluene	108-88-3	69	250	ug/kg	**UB**	70	240	ug/kg	**UB**
GC/MS SVOC									
OSW-8270C									
Benzaldehyde	100-52-7								
Bis(2-ethylhexyl) phthalate	117-81-7								
Di-n-butyl phthalate	84-74-2								
Hexachlorocyclopentadiene	77-47-4								

GCMS VOC surrogate recoveries were outliers biased high for 1 out of 4 surrogates in client sample **-009**. All **GCMS VOC** results detected above the RL for this sample should be considered to be estimated and qualified with J flags. Non-detect results do not require qualification based on this high bias outlier.

GCMS VOC QC batch 96407 solid matrix method blank had detections below the RL for carbon disulfide, naphthalene, tetrahydrofuran, 1,2,4-trichlorobenzene and toluene. Client samples **-001, -002, -004, -005, -008 and -009 carbon disulfide, tetrahydrofuran and toluene** results and client samples **-001, -002, -004, -005 and -009 naphthalene** results should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS VOC client sample **-006** MS/MSD recoveries were outliers biased high for ethylbenzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene, styrene and toluene. MS or MSD recoveries but not both were outliers biased high for 1,1,2-trichloroethane and 1,3,5-trimethylbenzene. Client sample **-006 ethyl benzene, p&m-xylenes, o-xylenes, 1,2,4-trimethylbenzene and toluene** results should be considered to be estimated and qualified with **J** flags.

GCMS SVOC QC batch 96170 water method blank had a detection below the RL for **bis-2-ethylhexylphthalate**. Client sample **-003** result for this analyte should be considered to be non-detect at the RL and qualified with a **UB** flag.

GCMS SVOC QC batch 96533 solid matrix method blank had a detection below the RL for **di-n-butylphthalate**. Client samples **-001, -002, -004 and -005** results for this analyte should be considered to be non-detect at the RL and qualified with **UB** flags.

GCMS SVOC QC batch 96170 water matrix LCS recoveries were outliers biased low for **hexachlorocyclopentadiene. Client samples -003 and -006** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

GCMS SVOC QC batch 96533 solid matrix LCS recoveries were outliers biased low for **benzaldehyde. Client samples -001, -002, -004 and -005** results for this analyte should be considered to be estimated and qualified with **UJ** flags.

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBNE_10(20130731)				SBNW_10(20130731)				SSSN_12(20130731)			
		Lab Sample ID:	240275041				240275042				240275043			
		Sample Date:	7/31/2013				7/31/2013				7/31/2013			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC													
OSW-8260B													
1,1,1,2-Tetrachloroethane	630-20-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1,1-Trichloroethane	71-55-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1-Dichloroethane	75-34-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1-Dichloroethene	75-35-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,1-Dichloropropene	563-58-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2,3-Trichlorobenzene	87-61-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2,3-Trichloropropane	96-18-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2,4-Trimethylbenzene	95-63-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2-Dibromo-3-Chloropropane	96-12-8	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	2.0	ug/l	---
1,2-Dibromoethane	106-93-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2-Dichlorobenzene	95-50-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2-Dichloroethane	107-06-2	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,2-Dichloropropane	78-87-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,3,5-Trimethylbenzene	108-67-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,3-Dichloropropane	142-28-9	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
2,2-Dichloropropane	594-20-7	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
2-Butanone (MEK)	78-93-3	ND	1000	ug/kg	---	ND	1000	ug/kg	---	1.7	10	ug/l	J
2-Chlorotoluene	95-49-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
2-Hexanone	591-78-6	ND	1000	ug/kg	---	ND	1000	ug/kg	---	ND	10	ug/l	---
4-Chlorotoluene	106-43-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	1000	ug/kg	---	ND	1000	ug/kg	---	ND	10	ug/l	---
Acetone	67-64-1	ND	1000	ug/kg	---	ND	1000	ug/kg	---	ND	10	ug/l	---
Allyl chloride	107-05-1	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	2.0	ug/l	---
Benzene	71-43-2	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Bromobenzene	108-86-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Bromochloromethane	74-97-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Bromodichloromethane	75-27-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Bromoform	75-25-2	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Bromomethane	74-83-9	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Carbon disulfide	75-15-0	32	250	ug/kg	UB	32	260	ug/kg	UB	ND	1.0	ug/l	---
Carbon tetrachloride	56-23-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Chlorobenzene	108-90-7	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Chlorodibromomethane	124-48-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Chloroethane	75-00-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Chloroform	67-66-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Chloromethane	74-87-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Cyclohexane	110-82-7	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	1.0	ug/l	---
Dibromomethane	74-95-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Dichlorofluoromethane	75-43-4	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	2.0	ug/l	---
Ethyl ether	60-29-7	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	2.0	ug/l	---
Ethylbenzene	100-41-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Hexachlorobutadiene	87-68-3	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Isopropylbenzene	98-82-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
m-Xylene & p-Xylene	179601-23-1	8.8	510	ug/kg	J	9.3	520	ug/kg	J	ND	2.0	ug/l	---
Methyl acetate	79-20-9	96	510	ug/kg	J	78	520	ug/kg	J	ND	10	ug/l	---
Methyl tert butyl ether	1634-04-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Methylcyclohexane	108-87-2	ND	510	ug/kg	---	ND	520	ug/kg	---	ND	1.0	ug/l	---
Methylene Chloride	75-09-2	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
n-Butylbenzene	104-51-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
N-Propylbenzene	103-65-1	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Naphthalene	91-20-3	8.7	250	ug/kg	UB	7.9	260	ug/kg	UB	ND	1.0	ug/l	---
o-Xylene	95-47-6	ND	250	ug/kg	---	21	260	ug/kg	J	ND	1.0	ug/l	---
p-Isopropyltoluene	99-87-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
sec-Butylbenzene	135-98-8	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Styrene	100-42-5	ND	250	ug/kg	---	6.5	260	ug/kg	J	ND	1.0	ug/l	---
tert-Butylbenzene	98-06-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Tetrahydrofuran	109-99-9	200	1000	ug/kg	UB	180	1000	ug/kg	UB	ND	5.0	ug/l	---
Toluene	108-88-3	62	250	ug/kg	UB	59	260	ug/kg	UB	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Trichlorofluoromethane	75-69-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	250	ug/kg	---	ND	260	ug/kg	---	ND	1.0	ug/l	---

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBNE_10(20130731)				SBNW_10(20130731)				SSSN_12(20130731)			
		Lab Sample ID:	240275041				240275042				240275043			
		Sample Date:	7/31/2013				7/31/2013				7/31/2013			
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS SVOC														
	OSW-8270C													
	1,1'-Biphenyl	92-52-4	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	2,2'-oxybis[1-chloropropane]	108-60-1	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	2,4,5-Trichlorophenol	95-95-4	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	2,4,6-Trichlorophenol	88-06-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	2,4-Dichlorophenol	120-83-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	2,4-Dimethylphenol	105-67-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	2,4-Dinitrophenol	51-28-5	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	4.8	ug/l	---
	2,4-Dinitrotoluene	121-14-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	2,6-Dinitrotoluene	606-20-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	2-Chloronaphthalene	91-58-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	2-Chlorophenol	95-57-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	2-Methylnaphthalene	91-57-6	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	2-Methylphenol	95-48-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	2-Nitroaniline	88-74-4	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	1.9	ug/l	---
	2-Nitrophenol	88-75-5	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	3 & 4 Methylphenol	65794-96-9	ND	450	ug/kg	---	ND	460	ug/kg	---	ND	1.9	ug/l	---
	3,3'-Dichlorobenzidine	91-94-1	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	4.8	ug/l	---
	3-Nitroaniline	99-09-2	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	1.9	ug/l	---
	4,6-Dinitro-2-methylphenol	534-52-1	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	4.8	ug/l	---
	4-Bromophenyl phenyl ether	101-55-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	4-Chloro-3-methylphenol	59-50-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	4-Chloroaniline	106-47-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	4-Chlorophenyl phenyl ether	7005-72-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	4-Nitroaniline	100-01-6	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	1.9	ug/l	---
	4-Nitrophenol	100-02-7	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	4.8	ug/l	---
	Acenaphthene	83-32-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Acenaphthylene	208-96-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Acetophenone	98-86-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Anthracene	120-12-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Atrazine	1912-24-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Benzaldehyde	100-52-7	ND	370	ug/kg	UJ	ND	380	ug/kg	UJ	ND	0.95	ug/l	---
	Benzo[a]anthracene	56-55-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Benzo[a]pyrene	50-32-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Benzo[b]fluoranthene	205-99-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Benzo[g,h,i]perylene	191-24-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Benzo[k]fluoranthene	207-08-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Bis(2-chloroethoxy)methane	111-91-1	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Bis(2-chloroethyl)ether	111-44-4	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Bis(2-ethylhexyl) phthalate	117-81-7	ND	370	ug/kg	---	ND	380	ug/kg	---	0.25	1.9	ug/l	UB
	Butyl benzyl phthalate	85-68-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	Caprolactam	105-60-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	Carbazole	86-74-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Chrysene	218-01-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Di-n-butyl phthalate	84-74-2	34	370	ug/kg	UB	33	380	ug/kg	UB	ND	1.9	ug/l	---
	Di-n-octyl phthalate	117-84-0	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	Dibenz(a,h)anthracene	53-70-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Dibenzofuran	132-64-9	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Diethyl phthalate	84-66-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	Dimethyl phthalate	131-11-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	1.9	ug/l	---
	Fluoranthene	206-44-0	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Fluorene	86-73-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Hexachlorobenzene	118-74-1	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Hexachlorobutadiene	87-68-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Hexachlorocyclopentadiene	77-47-4	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	9.5	ug/l	UJ
	Hexachloroethane	67-72-1	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Indeno[1,2,3-cd]pyrene	193-39-5	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Isophorone	78-59-1	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	N-Nitrosodi-n-propylamine	621-64-7	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	N-Nitrosodiphenylamine	86-30-6	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Naphthalene	91-20-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Nitrobenzene	98-95-3	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Pentachlorophenol	87-86-5	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	4.8	ug/l	---
	Phenanthrene	85-01-8	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.19	ug/l	---
	Phenol	108-95-2	ND	370	ug/kg	---	ND	380	ug/kg	---	ND	0.95	ug/l	---
	Pyrene	129-00-0	4.9	370	ug/kg	J	ND	380	ug/kg	---	ND	0.19	ug/l	---
GC VOC														
	PUBL-SW-140													
	WI Gasoline Range Organics (C6-C10)	E-1005												
Metals														
	OSW-6010B													
	Arsenic	7440-38-2	1.6	0.97	mg/kg	---	2.3	1.1	mg/kg	---				
	Barium	7440-39-3	23	19	mg/kg	---	28	22	mg/kg	---				
	Cadmium	7440-43-9	ND	0.19	mg/kg	---	ND	0.22	mg/kg	---				
	Chromium	7440-47-3	7.0	0.49	mg/kg	---	8.3	0.55	mg/kg	---				
	Lead	7439-92-1	1.6	0.29	mg/kg	---	1.7	0.33	mg/kg	---				
	Selenium	7782-49-2	ND	0.49	mg/kg	---	ND	0.55	mg/kg	---				
	Silver	7440-22-4	ND	0.49	mg/kg	---	ND	0.55	mg/kg	---				
	OSW-7471A													
	Mercury	7439-97-6	ND	0.11	mg/kg	---	ND	0.10	mg/kg	---				

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBSE_10(20130731)				SBSW_10(20130731)				SSSW_12(20130731)			
		Lab Sample ID:	240275044				240275045				240275046			
		Sample Date:	7/31/2013				7/31/2013				7/31/2013			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC													
OSW-8260B													
1,1,1,2-Tetrachloroethane	630-20-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1,1-Trichloroethane	71-55-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1,2-Trichloroethane	79-00-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1-Dichloroethane	75-34-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1-Dichloroethene	75-35-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,1-Dichloropropene	563-58-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2,3-Trichlorobenzene	87-61-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2,3-Trichloropropane	96-18-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2,4-Trichlorobenzene	120-82-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2,4-Trimethylbenzene	95-63-6	ND	280	ug/kg	---	ND	260	ug/kg	---	5100	1300	ug/l	J
1,2-Dibromo-3-Chloropropane	96-12-8	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	2500	ug/l	---
1,2-Dibromoethane	106-93-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2-Dichlorobenzene	95-50-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2-Dichloroethane	107-06-2	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,2-Dichloropropane	78-87-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,3,5-Trimethylbenzene	108-67-8	ND	280	ug/kg	---	ND	260	ug/kg	---	1500	1300	ug/l	---
1,3-Dichlorobenzene	541-73-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,3-Dichloropropane	142-28-9	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
1,4-Dichlorobenzene	106-46-7	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
2,2-Dichloropropane	594-20-7	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
2-Butanone (MEK)	78-93-3	ND	1100	ug/kg	---	57	1000	ug/kg	J	ND	13000	ug/l	---
2-Chlorotoluene	95-49-8	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
2-Hexanone	591-78-6	ND	1100	ug/kg	---	ND	1000	ug/kg	---	ND	13000	ug/l	---
4-Chlorotoluene	106-43-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	1100	ug/kg	---	ND	1000	ug/kg	---	ND	13000	ug/l	---
Acetone	67-64-1	ND	1100	ug/kg	---	ND	1000	ug/kg	---	ND	13000	ug/l	---
Allyl chloride	107-05-1	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	2500	ug/l	---
Benzene	71-43-2	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Bromobenzene	108-86-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Bromochloromethane	74-97-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Bromodichloromethane	75-27-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Bromoform	75-25-2	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Bromomethane	74-83-9	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Carbon disulfide	75-15-0	40	280	ug/kg	UB	32	260	ug/kg	UB	ND	1300	ug/l	---
Carbon tetrachloride	56-23-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Chlorobenzene	108-90-7	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Chlorodibromomethane	124-48-1	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Chloroethane	75-00-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Chloroform	67-66-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Chloromethane	74-87-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
cis-1,3-Dichloropropene	10061-01-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Cyclohexane	110-82-7	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	1300	ug/l	---
Dibromomethane	74-95-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Dichlorodifluoromethane	75-71-8	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Dichlorofluoromethane	75-43-4	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	2500	ug/l	---
Ethyl ether	60-29-7	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	2500	ug/l	---
Ethylbenzene	100-41-4	ND	280	ug/kg	---	ND	260	ug/kg	---	12000	1300	ug/l	J
Hexachlorobutadiene	87-68-3	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Isopropylbenzene	98-82-8	ND	280	ug/kg	---	ND	260	ug/kg	---	170	1300	ug/l	J
m-Xylene & p-Xylene	179601-23-1	7.0	560	ug/kg	J	6.9	520	ug/kg	J	68000	2500	ug/l	J
Methyl acetate	79-20-9	50	560	ug/kg	J	ND	520	ug/kg	---	ND	13000	ug/l	---
Methyl tert butyl ether	1634-04-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Methylcyclohexane	108-87-2	ND	560	ug/kg	---	ND	520	ug/kg	---	ND	1300	ug/l	---
Methylene Chloride	75-09-2	ND	280	ug/kg	---	ND	260	ug/kg	---	850	1300	ug/l	J
n-Butylbenzene	104-51-8	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
N-Propylbenzene	103-65-1	ND	280	ug/kg	---	ND	260	ug/kg	---	410	1300	ug/l	J
Naphthalene	91-20-3	8.6	280	ug/kg	UB	7.6	260	ug/kg	UB	ND	1300	ug/l	---
o-Xylene	95-47-6	ND	280	ug/kg	---	ND	260	ug/kg	---	16000	1300	ug/l	J
p-Isopropyltoluene	99-87-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
sec-Butylbenzene	135-98-8	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Styrene	100-42-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
tert-Butylbenzene	98-06-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Tetrachloroethene	127-18-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Tetrahydrofuran	109-99-9	160	1100	ug/kg	UB	170	1000	ug/kg	UB	ND	6300	ug/l	---
Toluene	108-88-3	58	280	ug/kg	UB	56	260	ug/kg	UB	3300	1300	ug/l	J
trans-1,2-Dichloroethene	156-60-5	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
trans-1,3-Dichloropropene	10061-02-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Trichloroethene	79-01-6	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Trichlorofluoromethane	75-69-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---
Vinyl chloride	75-01-4	ND	280	ug/kg	---	ND	260	ug/kg	---	ND	1300	ug/l	---

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	SBSE_10(20130731)				SBSW_10(20130731)				SSSW_12(20130731)			
		Lab Sample ID:	240275044				240275045				240275046			
		Sample Date:	7/31/2013				7/31/2013				7/31/2013			
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS SVOC														
	OSW-8270C													
	1,1'-Biphenyl	92-52-4	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	2,2'-oxybis[1-chloropropane]	108-60-1	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	2,4,5-Trichlorophenol	95-95-4	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	2,4,6-Trichlorophenol	88-06-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	2,4-Dichlorophenol	120-83-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	2,4-Dimethylphenol	105-67-9	ND	360	ug/kg	---	ND	370	ug/kg	---	11	13	ug/l	J
	2,4-Dinitrophenol	51-28-5	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	32	ug/l	---
	2,4-Dinitrotoluene	121-14-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	2,6-Dinitrotoluene	606-20-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	2-Chloronaphthalene	91-58-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	2-Chlorophenol	95-57-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	2-Methylnaphthalene	91-57-6	ND	360	ug/kg	---	ND	370	ug/kg	---	0.84	1.3	ug/l	J
	2-Methylphenol	95-48-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	2-Nitroaniline	88-74-4	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	13	ug/l	---
	2-Nitrophenol	88-75-5	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	3 & 4 Methylphenol	65794-96-9	ND	440	ug/kg	---	ND	440	ug/kg	---	ND	13	ug/l	---
	3,3'-Dichlorobenzidine	91-94-1	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	32	ug/l	---
	3-Nitroaniline	99-09-2	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	13	ug/l	---
	4,6-Dinitro-2-methylphenol	534-52-1	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	32	ug/l	---
	4-Bromophenyl phenyl ether	101-55-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	4-Chloro-3-methylphenol	59-50-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	4-Chloroaniline	106-47-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	4-Chlorophenyl phenyl ether	7005-72-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	4-Nitroaniline	100-01-6	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	13	ug/l	---
	4-Nitrophenol	100-02-7	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	32	ug/l	---
	Acenaphthene	83-32-9	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Acenaphthylene	208-96-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Acetophenone	98-86-2	ND	360	ug/kg	---	ND	370	ug/kg	---	91	6.3	ug/l	---
	Anthracene	120-12-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Atrazine	1912-24-9	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Benzaldehyde	100-52-7	ND	360	ug/kg	UJ	ND	370	ug/kg	UJ	ND	6.3	ug/l	---
	Benzo[a]anthracene	56-55-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Benzo[a]pyrene	50-32-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Benzo[b]fluoranthene	205-99-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Benzo[g,h,i]perylene	191-24-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Benzo[k]fluoranthene	207-08-9	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Bis(2-chloroethoxy)methane	111-91-1	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Bis(2-chloroethyl)ether	111-44-4	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Bis(2-ethylhexyl) phthalate	117-81-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	Butyl benzyl phthalate	85-68-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	Caprolactam	105-60-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	Carbazole	86-74-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Chrysene	218-01-9	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Di-n-butyl phthalate	84-74-2	36	360	ug/kg	UB	35	370	ug/kg	UB	ND	13	ug/l	---
	Di-n-octyl phthalate	117-84-0	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	Dibenz(a,h)anthracene	53-70-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Dibenzofuran	132-64-9	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Diethyl phthalate	84-66-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	Dimethyl phthalate	131-11-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	13	ug/l	---
	Fluoranthene	206-44-0	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Fluorene	86-73-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Hexachlorobenzene	118-74-1	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Hexachlorobutadiene	87-68-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Hexachlorocyclopentadiene	77-47-4	ND	1800	ug/kg	---	ND	1800	ug/kg	---	ND	63	ug/l	UJ
	Hexachloroethane	67-72-1	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Indeno[1,2,3-cd]pyrene	193-39-5	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Isophorone	78-59-1	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	N-Nitrosodi-n-propylamine	621-64-7	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	N-Nitrosodiphenylamine	86-30-6	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Naphthalene	91-20-3	ND	360	ug/kg	---	ND	370	ug/kg	---	130	1.3	ug/l	---
	Nitrobenzene	98-95-3	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Pentachlorophenol	87-86-5	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	32	ug/l	---
	Phenanthrene	85-01-8	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
	Phenol	108-95-2	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	6.3	ug/l	---
	Pyrene	129-00-0	ND	360	ug/kg	---	ND	370	ug/kg	---	ND	1.3	ug/l	---
GC VOC														
	PUBL-SW-140													
	WI Gasoline Range Organics (C6-C10)	E-1005												
Metals														
	OSW-6010B													
	Arsenic	7440-38-2	1.9	1.1	mg/kg	---	1.3	1.0	mg/kg	---				
	Barium	7440-39-3	25	21	mg/kg	---	25	20	mg/kg	---				
	Cadmium	7440-43-9	ND	0.21	mg/kg	---	ND	0.20	mg/kg	---				
	Chromium	7440-47-3	5.0	0.53	mg/kg	---	5.9	0.51	mg/kg	---				
	Lead	7439-92-1	1.7	0.32	mg/kg	---	1.8	0.31	mg/kg	---				
	Selenium	7782-49-2	ND	0.53	mg/kg	---	ND	0.51	mg/kg	---				
	Silver	7440-22-4	ND	0.53	mg/kg	---	ND	0.51	mg/kg	---				
	OSW-7471A													
	Mercury	7439-97-6	ND	0.098	mg/kg	---	ND	0.11	mg/kg	---				

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	TRIP BLANK				MB-002				GD_2(20130801)			
		Lab Sample ID:	240275047				240275048				240275049			
		Sample Date:	8/1/2013				8/1/2013				8/1/2013			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC													
OSW-8260B													
1,1,1,2-Tetrachloroethane	630-20-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1,1-Trichloroethane	71-55-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1,2-Trichloroethane	79-00-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1-Dichloroethane	75-34-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,1-Dichloropropene	563-58-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2,3-Trichlorobenzene	87-61-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2,3-Trichloropropane	96-18-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2,4-Trichlorobenzene	120-82-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2,4-Trimethylbenzene	95-63-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	79	240	ug/kg	J
1,2-Dibromo-3-Chloropropane	96-12-8	ND	2.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
1,2-Dibromoethane	106-93-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2-Dichlorobenzene	95-50-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2-Dichloroethane	107-06-2	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,2-Dichloropropane	78-87-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,3,5-Trimethylbenzene	108-67-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	24	240	ug/kg	J
1,3-Dichlorobenzene	541-73-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,3-Dichloropropane	142-28-9	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
1,4-Dichlorobenzene	106-46-7	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
2,2-Dichloropropane	594-20-7	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
2-Butanone (MEK)	78-93-3	ND	10	ug/l	---	ND	1000	ug/kg	---	ND	960	ug/kg	---
2-Chlorotoluene	95-49-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
2-Hexanone	591-78-6	ND	10	ug/l	---	ND	1000	ug/kg	---	ND	960	ug/kg	---
4-Chlorotoluene	106-43-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	5.0	ug/l	---	ND	1000	ug/kg	---	ND	960	ug/kg	---
Acetone	67-64-1	ND	10	ug/l	---	ND	1000	ug/kg	---	ND	960	ug/kg	---
Allyl chloride	107-05-1	ND	2.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
Benzene	71-43-2	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Bromobenzene	108-86-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Bromochloromethane	74-97-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Bromodichloromethane	75-27-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Bromoform	75-25-2	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Bromomethane	74-83-9	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Carbon disulfide	75-15-0	ND	1.0	ug/l	---	36	250	ug/kg	UB	30	240	ug/kg	UB
Carbon tetrachloride	56-23-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Chlorobenzene	108-90-7	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Chlorodibromomethane	124-48-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Chloroethane	75-00-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Chloroform	67-66-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Chloromethane	74-87-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
cis-1,3-Dichloropropene	10061-01-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Cyclohexane	110-82-7	ND	1.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
Dibromomethane	74-95-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Dichlorodifluoromethane	75-71-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Dichlorofluoromethane	75-43-4	ND	1.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
Ethyl ether	60-29-7	ND	1.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
Ethylbenzene	100-41-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	9.2	240	ug/kg	J
Hexachlorobutadiene	87-68-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Isopropylbenzene	98-82-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
m-Xylene & p-Xylene	179601-23-1	ND	2.0	ug/l	---	ND	500	ug/kg	---	44	480	ug/kg	J
Methyl acetate	79-20-9	ND	10	ug/l	---	25	500	ug/kg	J	600	480	ug/kg	J
Methyl tert butyl ether	1634-04-4	ND	2.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Methylcyclohexane	108-87-2	ND	1.0	ug/l	---	ND	500	ug/kg	---	ND	480	ug/kg	---
Methylene Chloride	75-09-2	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
n-Butylbenzene	104-51-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
N-Propylbenzene	103-65-1	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Naphthalene	91-20-3	ND	1.0	ug/l	---	ND	250	ug/kg	---	51	240	ug/kg	UB
o-Xylene	95-47-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	18	240	ug/kg	J
p-Isopropyltoluene	99-87-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
sec-Butylbenzene	135-98-8	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Styrene	100-42-5	ND	1.0	ug/l	---	5.6	250	ug/kg	J	ND	240	ug/kg	---
tert-Butylbenzene	98-06-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Tetrahydrofuran	109-99-9	ND	5.0	ug/l	---	140	1000	ug/kg	UB	160	960	ug/kg	UB
Toluene	108-88-3	0.24	1.0	ug/l	J	69	250	ug/kg	UB	70	240	ug/kg	UB
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
trans-1,3-Dichloropropene	10061-02-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Trichlorofluoromethane	75-69-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	250	ug/kg	---	ND	240	ug/kg	---

Analytical Results Summary

Enovis Project ID: E200572
Laboratory: TestAmerica - North Canton
Laboratory Submittal: 27504-1

		Sample Name:	TRIP BLANK				MB-002				GD_2(20130801)			
		Lab Sample ID:	240275047				240275048				240275049			
		Sample Date:	8/1/2013				8/1/2013				8/1/2013			
Analyte	**Cas No.**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**	**Result**	**Report Limit**	**Units**	**Valid Qualifier**
GC/MS SVOC													
OSW-8270C													
1,1'-Biphenyl	92-52-4												
2,2'-oxybis[1-chloropropane]	108-60-1												
2,4,5-Trichlorophenol	95-95-4												
2,4,6-Trichlorophenol	88-06-2												
2,4-Dichlorophenol	120-83-2												
2,4-Dimethylphenol	105-67-9												
2,4-Dinitrophenol	51-28-5												
2,4-Dinitrotoluene	121-14-2												
2,6-Dinitrotoluene	606-20-2												
2-Chloronaphthalene	91-58-7												
2-Chlorophenol	95-57-8												
2-Methylnaphthalene	91-57-6												
2-Methylphenol	95-48-7												
2-Nitroaniline	88-74-4												
2-Nitrophenol	88-75-5												
3 & 4 Methylphenol	65794-96-9												
3,3'-Dichlorobenzidine	91-94-1												
3-Nitroaniline	99-09-2												
4,6-Dinitro-2-methylphenol	534-52-1												
4-Bromophenyl phenyl ether	101-55-3												
4-Chloro-3-methylphenol	59-50-7												
4-Chloroaniline	106-47-8												
4-Chlorophenyl phenyl ether	7005-72-3												
4-Nitroaniline	100-01-6												
4-Nitrophenol	100-02-7												
Acenaphthene	83-32-9												
Acenaphthylene	208-96-8												
Acetophenone	98-86-2												
Anthracene	120-12-7												
Atrazine	1912-24-9												
Benzaldehyde	100-52-7												
Benzo[a]anthracene	56-55-3												
Benzo[a]pyrene	50-32-8												
Benzo[b]fluoranthene	205-99-2												
Benzo[g,h,i]perylene	191-24-2												
Benzo[k]fluoranthene	207-08-9												
Bis(2-chloroethoxy)methane	111-91-1												
Bis(2-chloroethyl)ether	111-44-4												
Bis(2-ethylhexyl) phthalate	117-81-7												
Butyl benzyl phthalate	85-68-7												
Caprolactam	105-60-2												
Carbazole	86-74-8												
Chrysene	218-01-9												
Di-n-butyl phthalate	84-74-2												
Di-n-octyl phthalate	117-84-0												
Dibenz(a,h)anthracene	53-70-3												
Dibenzofuran	132-64-9												
Diethyl phthalate	84-66-2												
Dimethyl phthalate	131-11-3												
Fluoranthene	206-44-0												
Fluorene	86-73-7												
Hexachlorobenzene	118-74-1												
Hexachlorobutadiene	87-68-3												
Hexachlorocyclopentadiene	77-47-4												
Hexachloroethane	67-72-1												
Indeno[1,2,3-cd]pyrene	193-39-5												
Isophorone	78-59-1												
N-Nitrosodi-n-propylamine	621-64-7												
N-Nitrosodiphenylamine	86-30-6												
Naphthalene	91-20-3												
Nitrobenzene	98-95-3												
Pentachlorophenol	87-86-5												
Phenanthrene	85-01-8												
Phenol	108-95-2												
Pyrene	129-00-0												
GC VOC													
PUBL-SW-140													
WI Gasoline Range Organics (C6-C10)	E-1005					ND	10	mg/kg	---	1.4	9.3	mg/kg	J
Metals													
OSW-6010B													
Arsenic	7440-38-2												
Barium	7440-39-3												
Cadmium	7440-43-9												
Chromium	7440-47-3												
Lead	7439-92-1												
Selenium	7782-49-2												
Silver	7440-22-4												
OSW-7471A													
Mercury	7439-97-6												