
American Linen Supply Company, Inc.

**SUBSURFACE SOIL AND GROUNDWATER
INVESTIGATION
AMERICAN LINEN SUPPLY COMPANY, INC. SITE
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON**

Prepared for:

Gordon Tilden Thomas & Cordell, LLP
1001 4th Avenue
Seattle, WA 98154

March 21, 2012

Prepared by:



200 West Mercer Street, Suite 401
Seattle, WA 98119

Table of Contents

Tables	ii
Figures	ii
Acronyms	ii
1 Introduction	1
1.1 SITE LOCATION AND DESCRIPTION	1
1.1.1 Surface water	4
1.1.2 Topographic and geologic setting	4
1.2 SITE HISTORY AND SOURCES OF CONTAMINATION	4
1.3 INVESTIGATION OBJECTIVES	5
2 Investigation and Sampling	7
2.1 ADVANCEMENT OF BORINGS AND COLLECTION OF SAMPLES	7
2.1.1 Soil boring installation	7
2.1.2 Subsurface soil sample collection	9
2.1.3 Stratified reconnaissance groundwater sample collection	10
2.2 INSTALLATION, DEVELOPMENT, AND SAMPLING OF GROUNDWATER MONITORING WELLS	11
2.2.1 Groundwater well installation	11
2.2.2 Development of groundwater monitoring wells	12
2.2.3 Collection of groundwater samples	12
3 Sampling Results and Analysis	15
3.1 SUBSURFACE SOIL SAMPLE RESULTS	15
3.2 GROUNDWATER SAMPLE RESULTS	18
4 Local Groundwater Elevation Survey	21
4.1 LOCATION AND ACCESS OF LOCAL GROUNDWATER MONITORING WELLS	21
4.2 MEASUREMENT OF GROUNDWATER DEPTHS	21
4.3 GROUNDWATER ELEVATION CONTOUR	22
5 Conclusions	27
6 References	29
Appendix A. Boring and Well Construction Logs	
Appendix B. Field Logbook	
Appendix C. Well Coordinate Survey	
Appendix D. Groundwater Well Sampling Logs	
Appendix E. Analytical Results	

- Appendix F. Laboratory Data Reports
 Appendix G. Existing Monitoring Well Logs
 Appendix H. Seattle City Light Monitoring Well Elevations

Tables

Table 2-1.	Soil boring sample depth intervals	9
Table 2-2.	Stratified groundwater collection data	11
Table 2-3.	Groundwater well field collection data	13
Table 4-1.	Groundwater well elevation collection data	21

Figures

Figure 1.	Project vicinity	2
Figure 2.	Project site and site monitoring wells	3
Figure 3.	PCE concentrations in soil, January 2012	16
Figure 4.	TCE concentrations in soil, January 2012	17
Figure 5.	PCE concentrations in groundwater, January – February 2012	19
Figure 6.	TCE concentrations in groundwater, January – February 2012	20
Figure 7.	Groundwater elevation contours, February 2012	23

Acronyms

Acronym	Definition
American Linen	American Linen Supply Company, Inc.
ASTM	American Society for Testing and Materials
bgs	below ground surface
DCE	dichloroethene
DO	dissolved oxygen
DTW	depth to water
EDD	electronic data deliverable
EPA	US Environmental Protection Agency
ID	identification
mS	millisiemens per centimeter
msl	mean sea level
mV	millivolts
NAVD 88	North American Vertical Datum 1988
NTU	nephelometric turbidity units

Acronym	Definition
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PID	photoionization detector
PVC	polyvinyl chloride
SCL	Seattle City Light
TCE	trichloroethene
TOC	top of casing
VOC	volatile organic compound
Windward	Windward Environmental LLC

1 Introduction

This report describes the soil borings, well installation, and sampling activities and procedures Windward Environmental, LLC (Windward) followed during the January and February 2012 subsurface investigation at the American Linen Supply Company, Inc. (American Linen) site in Seattle, Washington.

1.1 SITE LOCATION AND DESCRIPTION

The American Linen site comprises 1.41 acres located west of Interstate 5 and Lake Union in Seattle, Washington (Figure 1). The site occupies the entirety of the 700 block of Dexter Avenue North between Valley Street and Roy Street (Figure 2). The buildings at the site currently house several automotive-related businesses, including automotive electrical repair, automotive body detail and repair, general automotive repair, and a limousine rental service. Chain-link fence bounds a parking lot on the northeast quadrant of the site property.

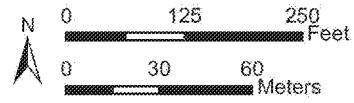
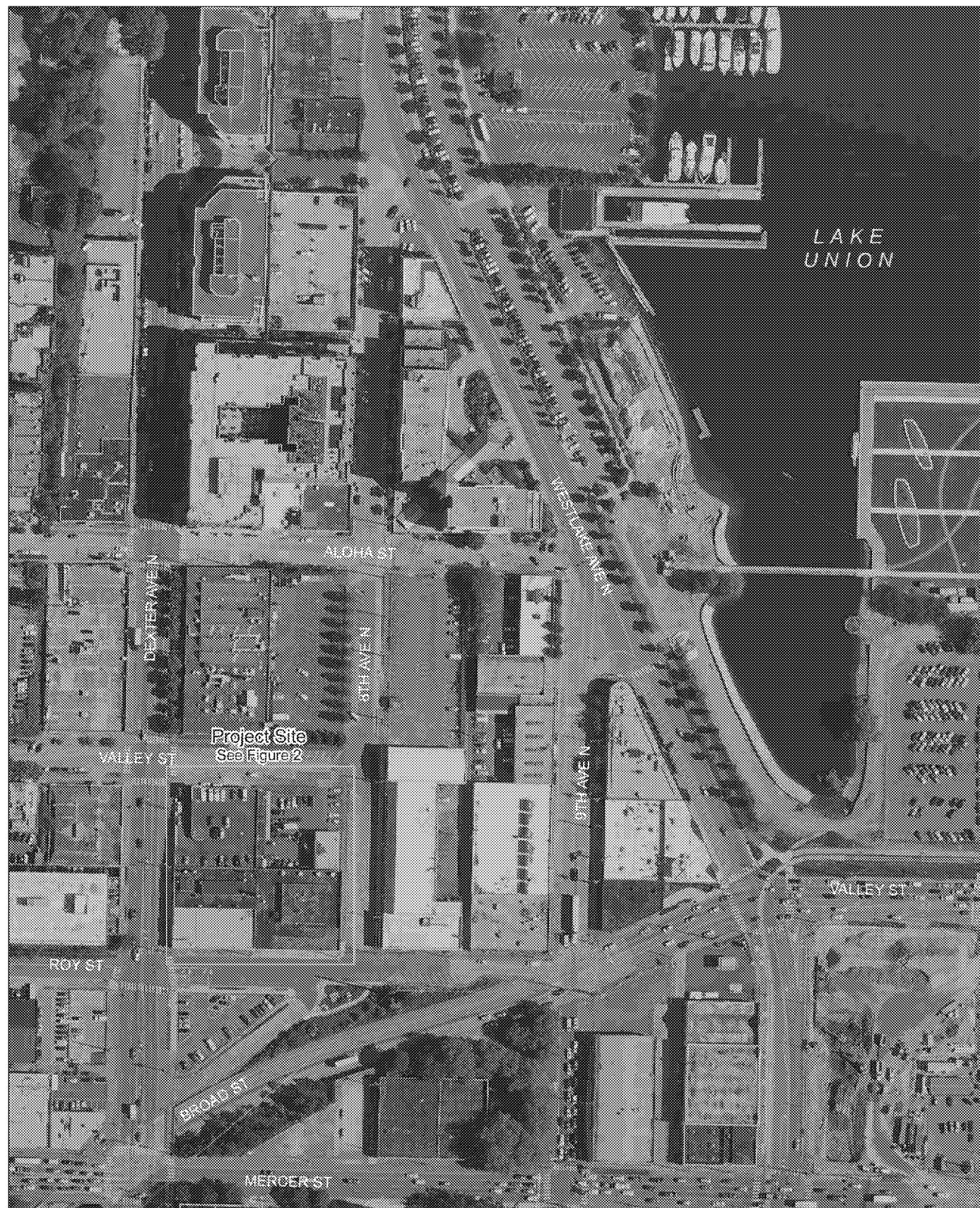
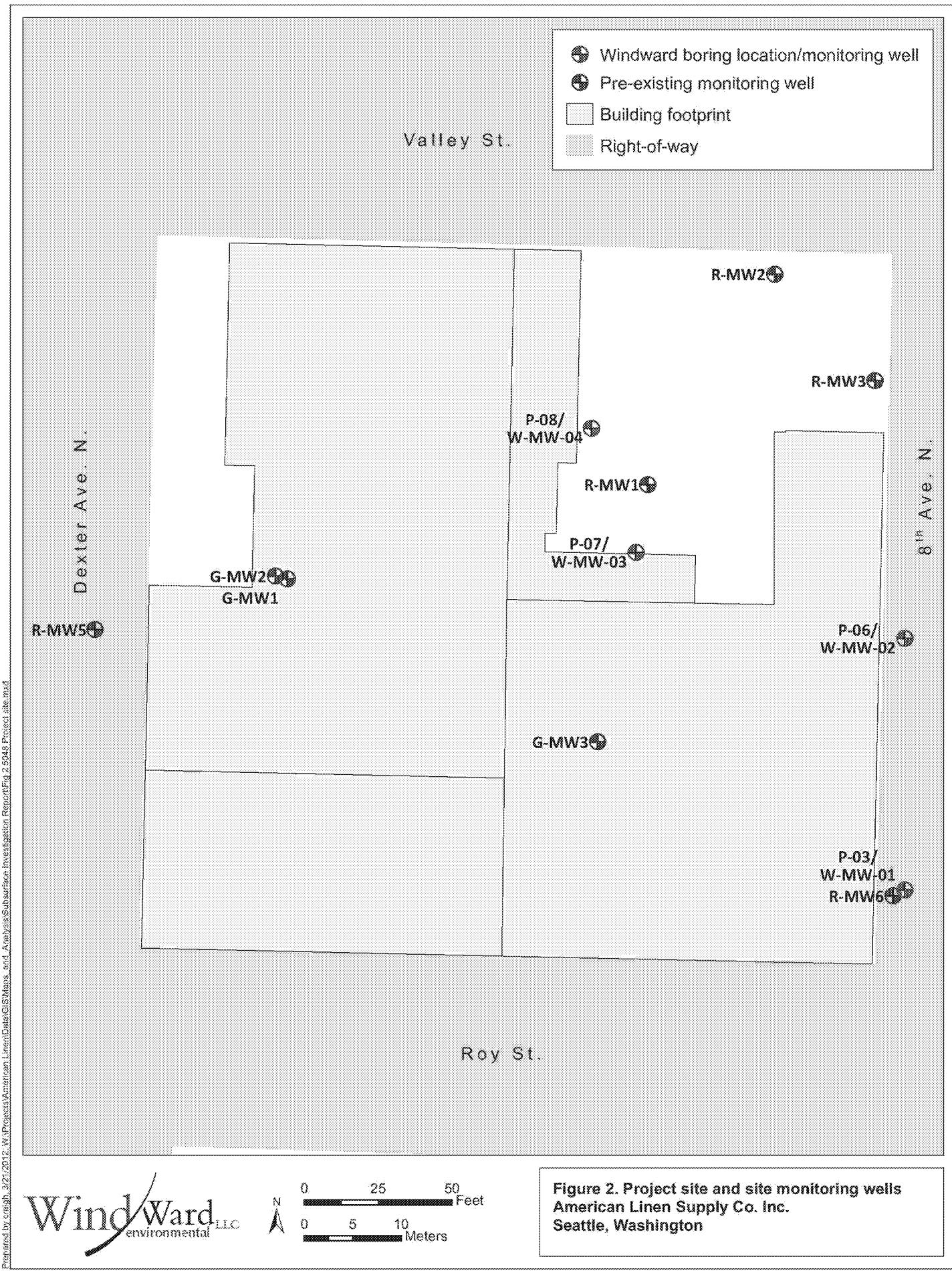


Figure 1. Project vicinity
American Linen Supply Co. Inc.
Seattle, Washington



1.1.1 Surface water

The site is located within the watershed of Lake Union, which lies due east and northeast of the site. No significant surface drainage passes within the vicinity of the project site.

1.1.2 Topographic and geologic setting

The site is situated at an elevation approximately 25 to 30 ft above the southwest shore of Lake Union. Topographically, the site slopes to the east from an elevation of approximately 58 ft above mean sea level (msl) (North American Vertical Datum 1988 [NAVD 88]) at the west property boundary to approximately 44 ft above msl at the east property boundary; a 6- to 8-ft depression exists in the parking lot in the northeast quadrant of the property. The greater general vicinity of the site slopes toward the east and south. No steep slope areas lie within the vicinity of the project site.

The native soils in the vicinity of the site are the result of glaciation, erosion, sedimentation, and subsequent modification by human activities. The glacial deposits are derived from several regional glaciations, the most recent of which occurred approximately 13,000 to 15,000 years ago.

Glacial deposits in the vicinity of the site include, from most recent to oldest:

- ◆ Recessional outwash—typically loose to dense, moderately well-sorted sands and gravels with a relatively low quantity of fines
- ◆ Glacial till—medium dense to very dense, non-stratified deposits of clay, silt, sand, and gravel with occasional cobbles and boulders
- ◆ Advance outwash—moderately to well-sorted and well-stratified sand and gravel deposits with irregular lenses of fine gravel, silt, and clay
- ◆ Transitional beds—stiff to hard silts and clays with interbedded sands and occasional gravels

1.2 SITE HISTORY AND SOURCES OF CONTAMINATION

The buildings occupying the site were constructed in several phases from the mid-1920s to mid-1960s. The original building occupying the southern quarter of the property was built in 1925 and operated as a commercial laundry service. An addition, used for the same purpose, was built in 1947, expanding the building to occupy the southern half of the property. The laundry operations included the use of oil-fired boilers, for which at least four underground storage tanks of undocumented volume were installed beneath the basement of the 1947 addition. In 1966, a second addition was built on the northwest quadrant of the property, bringing the building to its existing footprint.

In the mid-1960s, laundry operations at the site began using chlorinated solvents for dry cleaning processes. Excess dry cleaning byproducts—solvents and solvent still bottoms (i.e., sludge generated during the distillation of solvents)—were likely discharged into

on-site sumps and the sanitary sewer system. Dry cleaning operations continued through the mid-1980s. It is probable that dry cleaning solvents, particularly tetrachloroethene (PCE), entered site soil and groundwater through gaps in the sump and sewer conduits. As a result, PCE and its associated degradation compounds (e.g., trichloroethene [TCE], cis-1,2-dichloroethene [DCE], trans-1,2-DCE, and vinyl chloride) are the predominant chemicals of concern at the site, though other volatile organic compounds (VOCs) have also been detected.

1.3 INVESTIGATION OBJECTIVES

Site environmental activities conducted during January and February 2012 included the improvement of horizontal and vertical delineation of the distribution of halogenated and non-halogenated VOCs associated with former dry cleaning operations at the site. The improvement of horizontal and vertical delineation of VOCs was achieved by advancing four subsurface soil borings, completing the borings as monitoring wells, sampling for soil and groundwater, and conducting a survey of groundwater elevations in local monitoring wells, both new and existing.

2 Investigation and Sampling

The following section provides information on the investigation and sampling effort completed at the site. Analytical results for the various media samples collected are provided in Section 3.

2.1 ADVANCEMENT OF BORINGS AND COLLECTION OF SAMPLES

Four borings (P-03, P-06, P-07, and P-08) were advanced at the site to further evaluate subsurface conditions in the vicinity of suspected contaminant source areas. The following subsections summarize the results of the boring advancement program and the associated subsurface soil sample collection effort. The borings were drilled to depths of approximately 80 ft below ground surface (bgs), both to collect soil samples at depth intervals and to install deep monitoring wells. Boring locations are shown on Figure 2.

2.1.1 Soil boring installation

Subsurface borings were advanced with a track-mounted sonic drill rig. The borings were cored continuously where practicable, and soil cores were extruded into plastic collection sleeves in 3- to 4-ft collection intervals during boring advancement. Soil classifications recorded in the boring logs (Appendix A) were based on the American Society for Testing and Materials (ASTM) International Designation D 2488, Standard Recommended Practice for Description of Soils (Visual-Manual Procedure). Field personnel used the Unified Soil Classification System to describe the materials encountered. Boring logs are included in Appendix A. A copy of notes collected in the field logbook is included in Appendix B.

2.1.1.1 Boring P-03

Boring P-03 is located at the southeast corner of the site, in City of Seattle sidewalk on 8th Avenue North at the intersection with Roy Street (Figure 2). This location is in the vicinity of existing monitoring well R-MW6, and provides greater vertical delineation of VOC contaminants in soil and groundwater at the southeast perimeter of the property. Boring P-03 was completed as a monitoring well and designated W-MW-01.

Several layers of fill— alternating layers of sand with fine-to-coarse gravels, often damp-to-wet, but with no noticeable stains or odors— were noted in boring P-03 from the surface to 23 ft bgs. At greater depths, the lithology was largely characterized by alternating grey, silty sands and sandy silts, varying in density and minor gravel content. Boring P-03 exhibited several hard, dense sandy silt layers (23-30, 46-54, 60-71, and 74-80 ft bgs) interspersed with occasional overlying layers of less-dense silty sands. The total formation was notable in its absence of free water; it was mostly dry-to-moist, with only small units of moist-to-damp silty sands or gravelly sands at 30-32, 45-

46, and 54-56 ft bgs. However, a layer of saturated silty sand with gravel was noted at 71-74 ft bgs.

2.1.1.2 *Boring P-06*

Boring P-06 is located at the southeast corner of the site, in City of Seattle sidewalk on 8th Avenue North, approximately midway on the block at the eastern site perimeter (Figure 2). This location is in the vicinity of historical push-probe boring B-3, and provides greater vertical delineation of VOC contaminants in soil and groundwater at the eastern perimeter of the property. Boring P-06 was completed as a monitoring well and designated W-MW-02.

A loose, sandy and gravelly fill was noted in boring P-06 to a depth of about 12 ft bgs, at which point the lithology changed to grey, wet silt and sand, then clayey silt, then silty sand. Sample recovery was poor from about 21 to 29 ft bgs due to a rock in the sampler, which pushed soft, loose material ahead of the sampler as it progressed downward; soil found in this poor recovery zone was a brownish-grey silty sand. Beneath the lower contact of silty sand was a layer of brown sand with silt and fine gravel that was damp-to-wet; below this zone, the lithology was characterized by alternating layers of grey silty sand and sandy silt, some with notable portions of gravel and generally dry-to-moist. The zone from 50 to 57 ft bgs was not recoverable: as was the case with the zone noted above, the lithology was very soft, loose, and wet, and the sample escaped the sampler upon attempted recovery. Below this interval to the bottom of the boring at 80 ft bgs, soils were characterized by grey silty sand, sandy silt, and occasional gravel, generally quite dry, with only a small damp zone from 70 to 72 ft bgs.

2.1.1.3 *Boring P-07*

Boring P-07 is located in the site parking lot near the center of the property (Figure 2). This location is in the vicinity of existing monitoring well R-MW1, and provides greater vertical delineation of VOC contaminants in soil and groundwater at the central portion of the property. Boring P-07 was completed as a monitoring well and designated W-MW-03.

At boring P-07, fill was noted in the first 22 ft bgs, including layers of sand, gravel, woody debris, and brick, underlain by alternating layers of wet, grey to brownish-grey silty sand and sandy silt. Below this zone of wet fill, the lithology varied among sandy silts, silty sands, poorly graded sands, and gravel. At a depth of 39 ft bgs, the lithology became increasingly dense and dry, alternating between tight, fine sand and silt and very dense silt with sand, until 75 ft bgs. A unit of medium-to-coarse sand was noted from 76 to 79 ft bgs, which was loose and wet. From 79 ft bgs to the bottom of the boring at 80 ft bgs, the formation returned to a very dense, dry silt with fine sand.

2.1.1.4 *Boring P-08*

Boring P-08 is located at the portion of the building standing on the northwest quadrant of the site (Figure 2). This location is in the vicinity of historical push-probe boring B-6,

and provides greater vertical delineation of VOC contaminants in soil and groundwater within the northwest quadrant of the property. Due to restricted access in the vicinity of boring P-08, the drill rig advanced the boring at an approximate angle of 25° off vertical from the point of penetration, extending approximately 37 ft west at the boring's full depth of 80 ft below local grade. Boring P-08 was completed as a monitoring well and designated W-MW-04.

The first 10 ft bgs of boring P-08 encountered soft, wet fill; poor recovery occurred after encountering a brick near the surface, below which were encountered loose sand and gravel fill with woody debris, broken glass, and a dark petroleum stain and sheen. From 10 ft bgs to approximately 40 ft bgs, the lithology transitioned to a series of layers of damp-to-wet, brown silty sands; sandy silts; sand and gravel; and clayey silt. Below 40 ft bgs, the lithology alternated between the dense, grey, dry-to-moist sandy silt with trace fine gravel, and sandy silt seen in the other site borings. Moisture content varied by depth, with occasional zones of dampness continuing to 81.5 ft bgs, the full depth of the boring.

2.1.2 Subsurface soil sample collection

Borings were cored continuously where practicable, and soil cores extruded into plastic collection sleeves in 3- to 4-ft collection intervals during boring advancement. The interval samples were field screened with visual and olfactory observations, and a photoionization detector (PID) and multi-gas detector were used to screen for the potential presence of volatile constituents.

Analytical samples from all borings were collected based on observed conditions in subsurface lithology, changes in moisture content in subsurface soils, and PID readings; see Table 2-1 for soil sample collection depths. The soil samples selected were placed in pre-weighed and -preserved containers using dedicated and disposable samplers according to US Environmental Protection Agency (EPA) Method 5035 for the collection and preparation of VOCs in solids. These analytical samples were submitted to Analytical Resources, Inc. of Tukwila, Washington, using established chain-of-custody procedures. The soil samples were analyzed for VOCs by EPA Method 8260C.

Table 2-1. Soil boring sample depth intervals

Sample ID	Boring Location	Date	Sample Depth (ft)	Analysis
SB-W-03-0160	P-03	27 January 2012	16–16.5	VOCs
SB-W-03-0225	P-03	27 January 2012	22.5–23	VOCs
SB-W-03-0315	P-03	27 January 2012	31.5–32	VOCs
SB-W-03-0450	P-03	27 January 2012	45–45.5	VOCs
SB-W-03-0555	P-03	27 January 2012	55.5–56	VOCs
SB-W-03-0645	P-03	27 January 2012	64.5–65	VOCs
SB-W-03-0730	P-03	27 January 2012	73–73.5	VOCs
SB-W-06-0900 ^b	P-06	29 January 2012	9–9.5	VOCs
SB-W-06-0185	P-06	29 January 2012	18.5–19	VOCs

Sample ID	Boring Location	Date	Sample Depth (ft)	Analysis
SB-W-06-0305	P-06	30 January 2012	30.5–31	VOCs
SB-W-06-0380	P-06	30 January 2012	38–38.5	VOCs
SB-W-06-0405	P-06	30 January 2012	40.5–41	VOCs
SB-W-06-0485	P-06	30 January 2012	48.5–49	VOCs
SB-W-06-9485 ^b	P-06			
SB-W-06-0590	P-06	30 January 2012	59–59.5	VOCs
SB-W-06-0715	P-06	30 January 2012	71.5–72	VOCs
SB-W-06-0790	P-06	31 January 2012	79–79.5	VOCs
SB-W-07-0135	P-07	26 January 2012	13.5–14	VOCs
SB-W-07-0275	P-07	26 January 2012	27.5–28	VOCs
SB-W-07-0335	P-07	26 January 2012	33.5–34	VOCs
SB-W-07-0430	P-07	26 January 2012	43–43.5	VOCs
SB-W-07-0530	P-07	26 January 2012	53–53.5	VOCs
SB-W-07-0630	P-07	26 January 2012	63–63.5	VOCs
SB-W-07-0780	P-07	26 January 2012	78–78.5	VOCs
SB-W-08-0090	P-08	28 January 2012	9–9.5	VOCs
SB-W-08-0155	P-08	28 January 2012	15.5–16	VOCs
SB-W-08-0265	P-08	28 January 2012	26.5–27	VOCs
SB-W-08-0380	P-08	28 January 2012	38–38.5	VOCs
SB-W-08-0480	P-08	28 January 2012	48–48.5	VOCs
SB-W-08-9480 ^b	P-08			
SB-W-08-0590	P-08	28 January 2012	59–59.5	VOCs
SB-W-08-0710	P-08	29 January 2012	71–71.5	VOCs
SB-W-08-0760	P-08	29 January 2012	76–76.5	VOCs

^a SB-W-06-0900 was labeled incorrectly at the time of collection, and was confirmed collected at a depth of 9 ft bgs.

^b Field duplicate sample.

ID – identification

VOCs – volatile organic compounds

2.1.3 Stratified reconnaissance groundwater sample collection

During boring advancement, stratified reconnaissance groundwater samples (i.e., grab groundwater samples collected at varying depths during drilling) were collected from borings P-06 and P-08. As drilling proceeded at each boring, temporary well screens were inserted at depths of 20, 40, and 60 ft bgs, and a peristaltic pump or stainless steel submersible pump (i.e., bladder pump) was used to purge and sample the groundwater, using new disposable tubing at each boring. The borings were sampled in general accordance with the procedures outlined in EPA's groundwater sampling guidance document (Yeskis and Zavala 2002). During purging, water quality parameters, including pH, temperature, turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and specific conductance, were measured (Table 2-2). Once the parameters stabilized, analytical samples were collected from each

boring. Collected reconnaissance groundwater samples were submitted to Analytical Resources, Inc. for VOCs analysis by EPA Method 8260C.

Table 2-2. Stratified groundwater collection data

Sample ID	Sample Date	Sample Depth (ft)	Pump Type	Sample Time	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)	ORP (mV)
SB-W-06-0200	30 January 2012	10-20	peristaltic	9:40	11.43	6.64	1.13	6.14	175	-43
SB-W-06-0400	30 January 2012	30-40	bladder	12:25	12.69	7.10	1.11	5.83	> 1000	-53
SB-W-06-0600	30 January 2012	50-60	bladder	15:35	17.30	7.79	1.06	0.57	900	-582
SB-W-08-0200	28 January 2012	10-20	peristaltic	11:50	10.51	6.76	0.370	0.86	997	-119
SB-W-08-0400	28 January 2012	30-40	peristaltic	14:05	10.94	6.67	0.610	0.62	> 1000	-188
SB-W-08-0600	29 January 2012	50-60	peristaltic	9:15	10.91	7.58	0.548	1.52	394	-171

DO – dissolved oxygen

mV – millivolts

ID – identification

NTU – nephelometric turbidity units

mS – millisiemens per centimeter

ORP – oxidation-reduction potential

2.2 INSTALLATION, DEVELOPMENT, AND SAMPLING OF GROUNDWATER MONITORING WELLS

Upon completion of boring advancement, groundwater wells were completed in the four borings. The new wells were then developed prior to collection of groundwater samples. The following subsections discuss the well installation, development, and subsequent sampling program.

2.2.1 Groundwater well installation

Upon completion of the boring advancement program, four new groundwater monitoring wells were installed at the site. The final locations of the new monitoring wells are provided on Figure 2. Well construction diagrams are included with the boring logs in Appendix A.

A licensed geologist selected the well installation depths based on the geology and groundwater conditions observed during boring advancement. Each new well consists of a 2-in.-diameter polyvinyl chloride (PVC) pipe that extends from above the ground surface to a 10-ft-long PVC screen located at the bottom of the well. Casing sections were connected using threaded fittings, and no glue was used in the construction of the wells. In W-MW-01, W-MW-02, and W-MW-03, 10-ft-long well screens with 0.01-in.-wide (No. 10) slots were installed with the tops of screens from 70 to 80 ft bgs to capture zones exhibiting moist-to-wet soil conditions isolated from higher water-bearing zones by dense, dry silt layers. The screened portion of the well was backfilled from the base to 2 ft above the top of screen with a filter pack of 10-20 Colorado silica sand. The borehole was then backfilled with bentonite to support protection from surface water intrusion.

As noted above in Section 2.1.1, W-MW-04 was constructed in a borehole installed at an angle of 25° off vertical. The borehole was first backfilled from an original calculated

depth of 81.5 ft bgs with bentonite to a calculated depth of 77 ft bgs. In order to ensure the integrity of the well's sand filter pack, the well was constructed with a factory-built, pre-packed well screen consisting of a 10-ft-long and 2-in.-diameter PVC screen with 0.01-in.-wide slots, encased in a 4-in.-diameter mesh casing containing a filter pack of 10-20 Colorado silica sand. The resulting screened interval, when calculated to account for the 25° inclination, was approximately 68 to 77 ft bgs, and was placed to capture zones exhibiting moist-to-wet soil conditions and isolated from higher water-bearing zones by dense, dry silt layers. The pre-packed well screen was fitted to PVC casing sections, as at the other site wells, then backfilled with 10-20 Colorado silica sand to 2 ft above the top of the screen; the borehole was then backfilled with bentonite to within 1 ft of the surface.

All wells were finished to grade with steel well boxes with bolted lids.

The newly installed wells were surveyed by a licensed land surveyor on February 6, 2012. Survey data are provided in Appendix C. At each well, coordinate locations were recorded for the top of the well casing and the ground surface adjacent to the well to within the nearest 1/10 of a foot (0.1 ft); the top-of-casing elevation of each PVC well head was recorded to within the nearest 1/100 of a foot (0.01 ft). The NAVD88 was used for vertical control.

2.2.2 Development of groundwater monitoring wells

Following a minimum period of 48 hours after the monitoring wells were installed, development procedures were implemented to enhance hydraulic communication between the formation water and the monitoring well. Well development was completed based on the protocols established in EPA guidance for well development (EPA 2001; ADEC 2009). All wells were developed by a combination of surging and purging with a submersible pump. The development continued until the wells were visibly free of sediment, as determined by the Windward geologist.

2.2.3 Collection of groundwater samples

The wells were sampled in general accordance with the procedures outlined in EPA's groundwater sampling guidance document (Yeskis and Zavala 2002). A bladder pump using low-flow techniques and new disposable tubing was used to purge and sample each well. During purging, water quality parameters, including pH, temperature, turbidity, DO, ORP, and specific conductance, were measured (Table 2-3). Once the parameters stabilized, analytical samples were collected from the wells. Groundwater monitoring well sampling logs are included in Appendix D.

Table 2-3. Groundwater well field collection data

Monitoring Well ID	Sample ID	Sample Date	Sample Time	Temp (°C)	pH	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)	ORP (mV)
W-MW-01	GW-W-01-01	2 January 2012	15:19	14.54	7.83	0.595	1.56	714	-365
W-MW-02	GW-W-02-01	3 January 2012	10:35	14.43	7.52	0.994	0.79	0.0	-387
W-MW-03	GW-W-03-01	2 January 2012	12:45	14.16	7.69	0.813	1.14	303	-440
W-MW-04	GW-W-04-01	2 January 2012	10:37	13.97	7.80	0.511	1.05	34.8	-460
	GW-W-04-02 ^a		10:40						

^a Field duplicate sample.

DO – dissolved oxygen

ID – identification

mS – millisiemens per centimeter

mV – millivolts

NTU – nephelometric turbidity units

ORP – oxidation-reduction potential

3 Sampling Results and Analysis

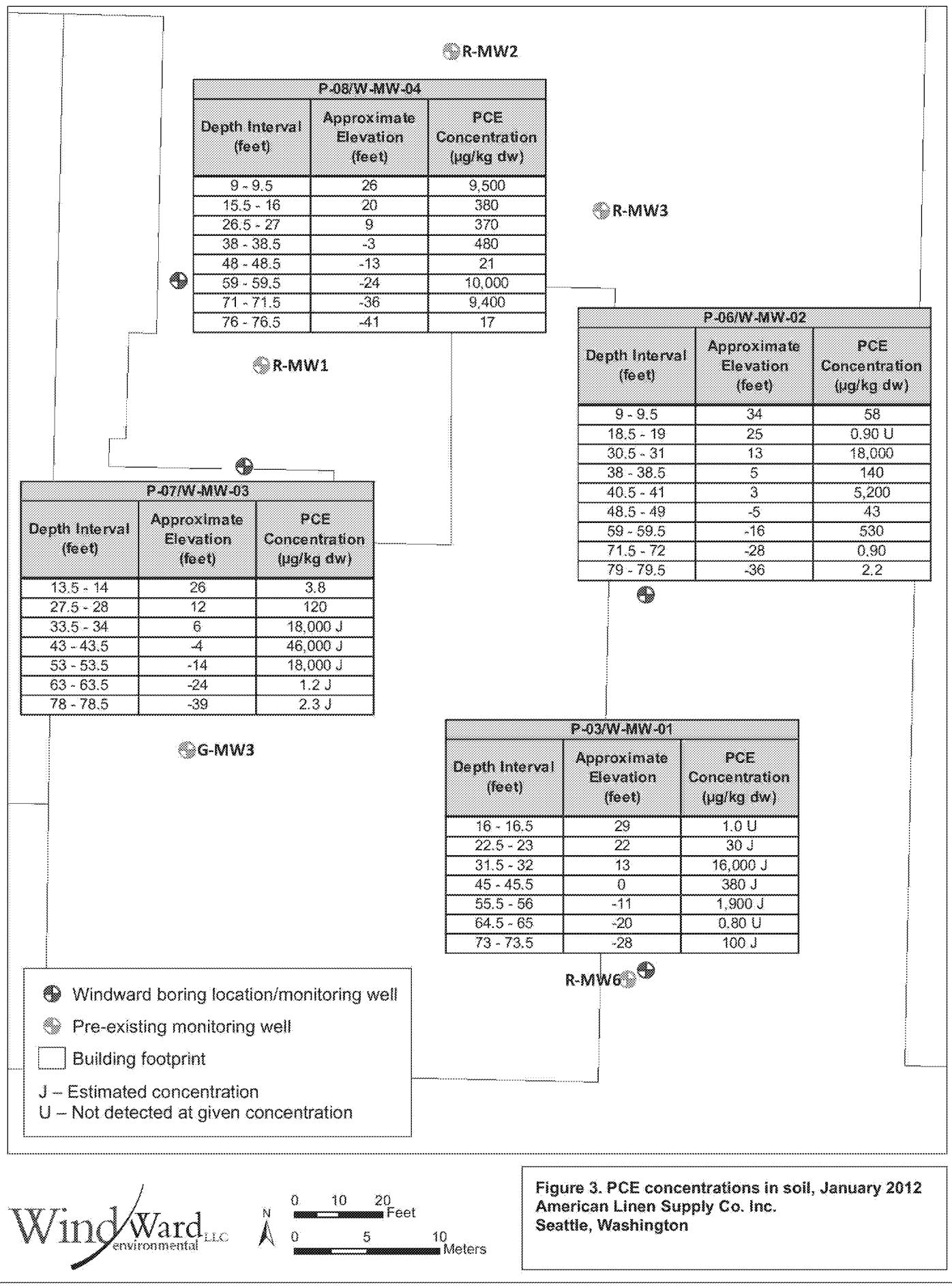
The following section provides the analytical results of the multi-media sampling program. Results are included in tabularized format and presented on figures showing the locations and depths of sample collection, as applicable to each media type sampled.

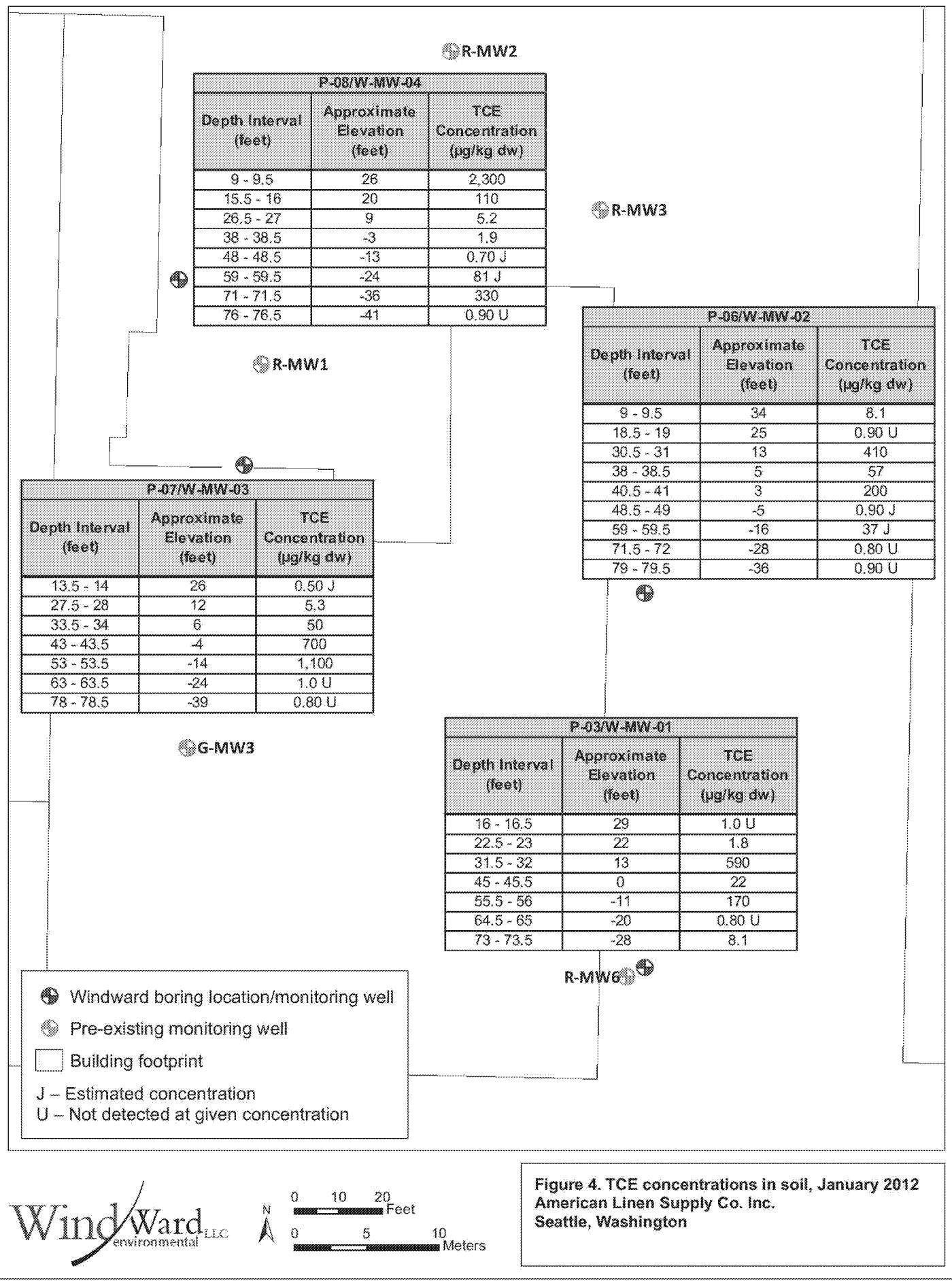
3.1 SUBSURFACE SOIL SAMPLE RESULTS

The subsurface soil samples were analyzed by Analytical Resources, Inc. of Tukwila, Washington, for VOCs using EPA Method 8260C. The summary results of the subsurface soil sampling performed between January 26 and 31, 2012, are included in Appendix E, Table E-1. Laboratory reports and electronic data deliverables (EDDs) were reviewed by Windward staff for completeness and accuracy. Hold times and quality control sample results were evaluated, and all data was found to be acceptable as qualified by the laboratory. Laboratory data reports are provided in Appendix F.

Analytical results for the targeted analyte PCE, and its degradation product TCE, are presented in Figures 3 and 4, respectively. Analytical results are displayed by location, depth below ground surface, calculated elevation, and concentration.

Detectable concentrations of PCE were found in all but two relatively shallow soil samples; the highest concentrations were in borings P-07 (W-MW-03), P-06 (W-MW-02), and P-03 (W-MW-01), within a vertical zone from about 13 ft to -14 ft msl (NAVD88). Detectable concentrations of TCE were significantly lower, but showed a similar distribution at depth.

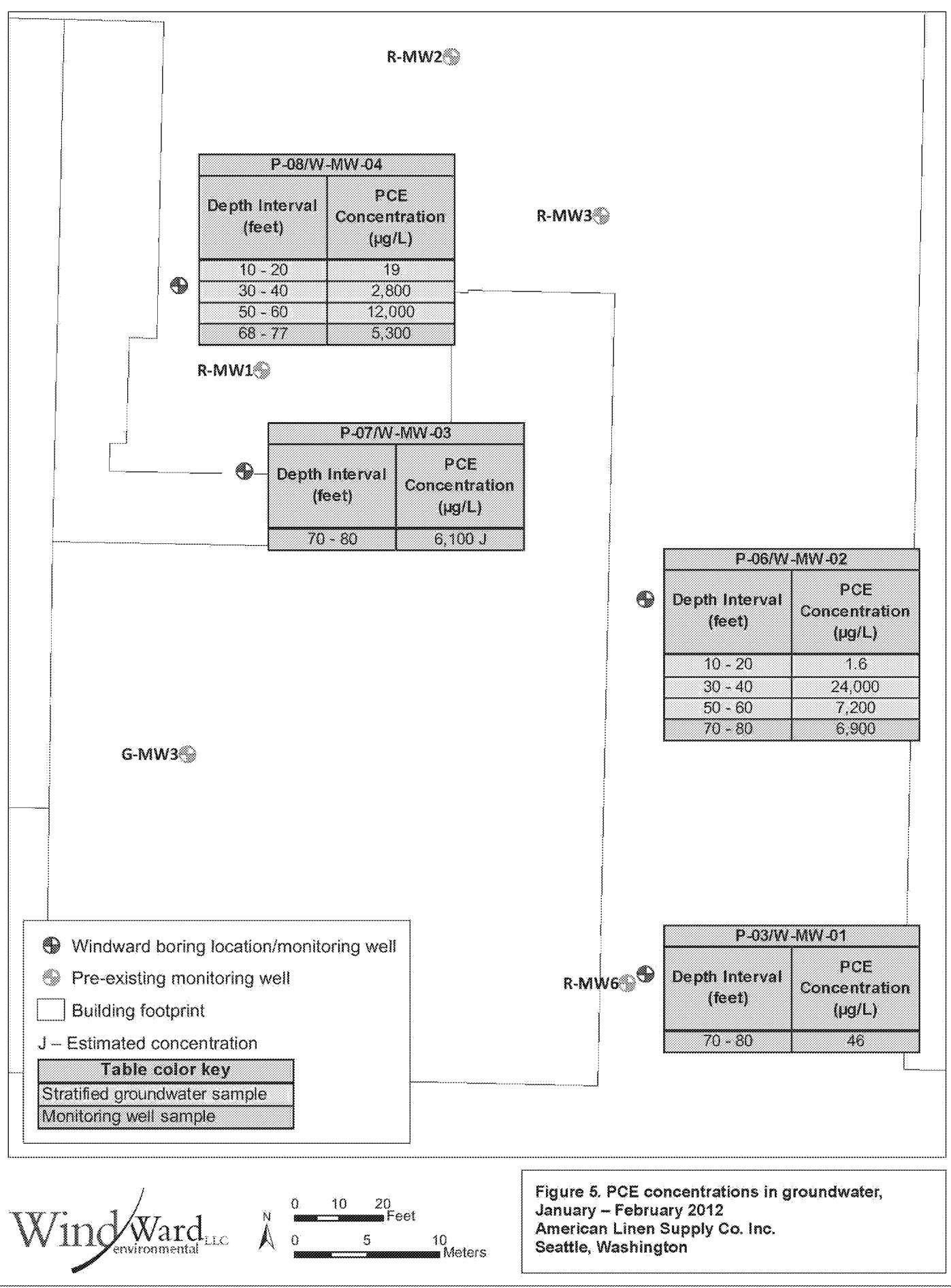


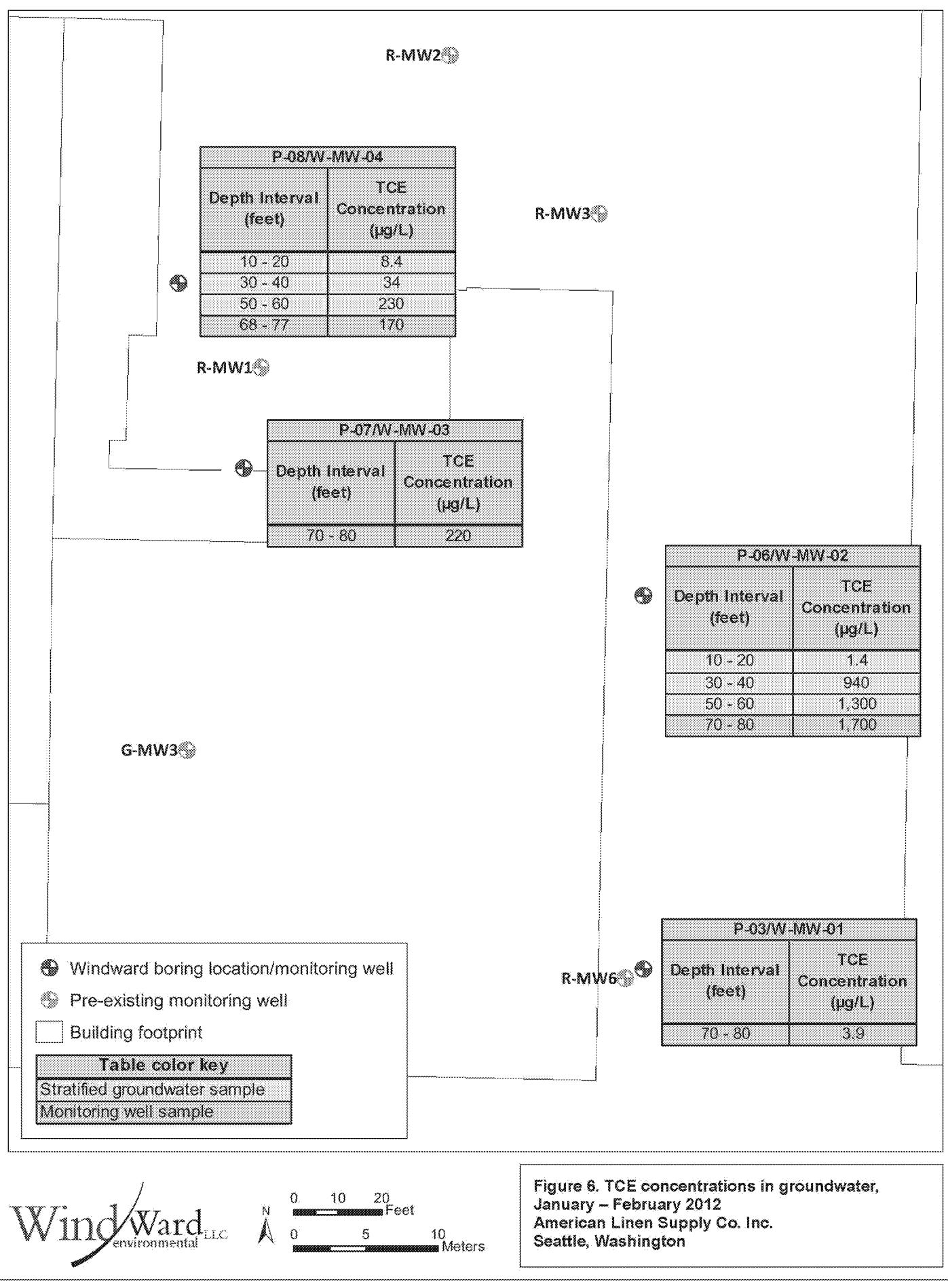


3.2 GROUNDWATER SAMPLE RESULTS

Groundwater samples were analyzed by Analytical Resources, Inc. of Tukwila, Washington, for VOCs using EPA Method 8260C. The results of the stratified groundwater sampling performed during drilling on January 28, 29, and 30, 2012, are summarized in Appendix E, Table E-2; the results of groundwater monitoring well sampling performed on February 3, 2012, are summarized in Appendix E, Table E-3. Laboratory reports and EDDs were reviewed by Windward staff for completeness and accuracy. Hold times and quality control sample results were evaluated, and all data was found to be acceptable as qualified by the laboratory. Laboratory data reports are provided in Appendix F.

Analytical results for the targeted analyte PCE, and its degradation product TCE, are presented in Figures 5 and 6, respectively. Analytical results in these figures include both stratified groundwater samples and monitoring well samples, and are displayed by location, depth below ground surface, calculated elevation, and concentration.





4 Local Groundwater Elevation Survey

The following section provides information on the local groundwater elevation survey conducted in relation to the site. Results and interpretation of the survey are provided below.

4.1 LOCATION AND ACCESS OF LOCAL GROUNDWATER MONITORING WELLS

A list of known groundwater monitoring wells was compiled for the site and adjacent and downgradient properties. Reconnaissance was then performed on foot to confirm the actual locations of the wells, their current conditions, and access requirements. Following confirmation of well locations and conditions, permission was obtained from the property owner for all off-site wells not within the public right of way.

Elevations for existing site wells and wells BB-08 and BB-13 were obtained from a 2010 survey performed by SoundEarth Strategies (SoundEarth Strategies 2012), all relative to vertical datum NAVD88. Available well construction logs were also provided by SoundEarth Strategies (Appendix G). Relative elevations for those wells associated with the Seattle City Light (SCL) property located at 800 Aloha Street were obtained from SCL (Appendix H), and corrected for vertical datum NAVD88 by the inclusion of well MW-9 during the survey of the four new site wells (Appendix C). Details of the SCL well constructions were not available, but the wells were described as part of a petroleum monitoring project, and are presumed to be screened at relatively shallow depths.

4.2 MEASUREMENT OF GROUNDWATER DEPTHS

On February 7, 2012, depth-to-water (DTW) measurements were collected for all monitoring wells located within the study area. Prior to collecting measurements, all wells were opened and allowed to equilibrate at ambient atmospheric pressure for no less than one hour. The DTW in each well was recorded with an electric water-indicating meter. The recorded DTW and calculated groundwater elevation in each well location are provided in Table 4-1. A copy of measurements collected in the field logbook is included in Appendix B.

Table 4-1. Groundwater well elevation collection data

Well ID	Property Location	Time of Measurement	Elevation at TOC (ft)	Measured DTW (ft)	Groundwater Elevation (ft)
G-MW1	Site	13:25	39.01	9.34	29.67
G-MW2 ^a	Site	13:29	—	8.49	—
G-MW3	Site	13:22	39.55	10.51	29.04
R-MW1	Site	13:16	37.78	8.98	28.80
R-MW2	Site	13:08	41.74	11.61	30.13
R-MW3	Site	13:11	41.74	12.90	28.84

Subsurface Soil and Groundwater
Investigation
March 21, 2012
21

Well ID	Property Location	Time of Measurement	Elevation at TOC (ft)	Measured DTW (ft)	Groundwater Elevation (ft)
R-MW5	Site	13:34	57.01	21.61	35.40
R-MW6	Site	12:10	45.18	14.11	31.07
W-MW-01 ^b	Site	12:13	44.88	21.22	23.66
W-MW-02 ^b	Site	13:05	43.46	17.51	25.95
W-MW-03 ^b	Site	13:18	39.23	17.73	21.50
W-MW-04 ^{b,c}	Site	13:14	35.53	14.13	21.40
BB-08	Roy St. at 8th Ave. N.	12:06	44.25	15.39	28.86
BB13	Westlake Ave. N. at Broad St.	12:02	27.65	7.56	20.09
MW-6 ^d	SCL	12:54	38.20	14.91	23.29
MW-7 ^d	SCL	12:33	35.09	12.56	22.53
MW-8 ^d	SCL	12:27	33.19	11.64	21.55
MW-9	SCL (8th Ave. N. at Valley St.)	12:59	40.81	16.39	24.42
MW-10 ^d	SCL	12:39	37.95	15.85	22.10
SCS-1 ^d	SCL	12:51	39.55	17.51	22.04
SCS-2 ^d	SCL	12:55	39.16	16.56	22.60
SCS-3 ^d	SCL	12:35	36.73	14.10	22.63
SCS-4 ^d	SCL	12:31	35.33	12.93	22.40
SCS-5 ^d	SCL	12:47	39.06	17.81	21.25
MW-101 ^d	SCL	12:17	30.46	7.48	22.98
MW-102 ^a	SCL	12:19	—	7.89	—
MW-105 ^d	SCL	12:22	31.26	10.46	20.80

^a Elevation at TOC unknown; not used for contouring.

^b Groundwater presumed rising under head; not used for contouring.

^c W-MW-04 installed at 25° off vertical; all measurements show have been corrected to reflect vertical depth.

^d Elevations based on Shannon & Wilson (Shannon & Wilson 2012) survey performed in relation to elevation at MW-9. XYZ coordinates of MW-9 confirmed during survey conducted by Windward on February 6, 2012.

DTW – depth to water

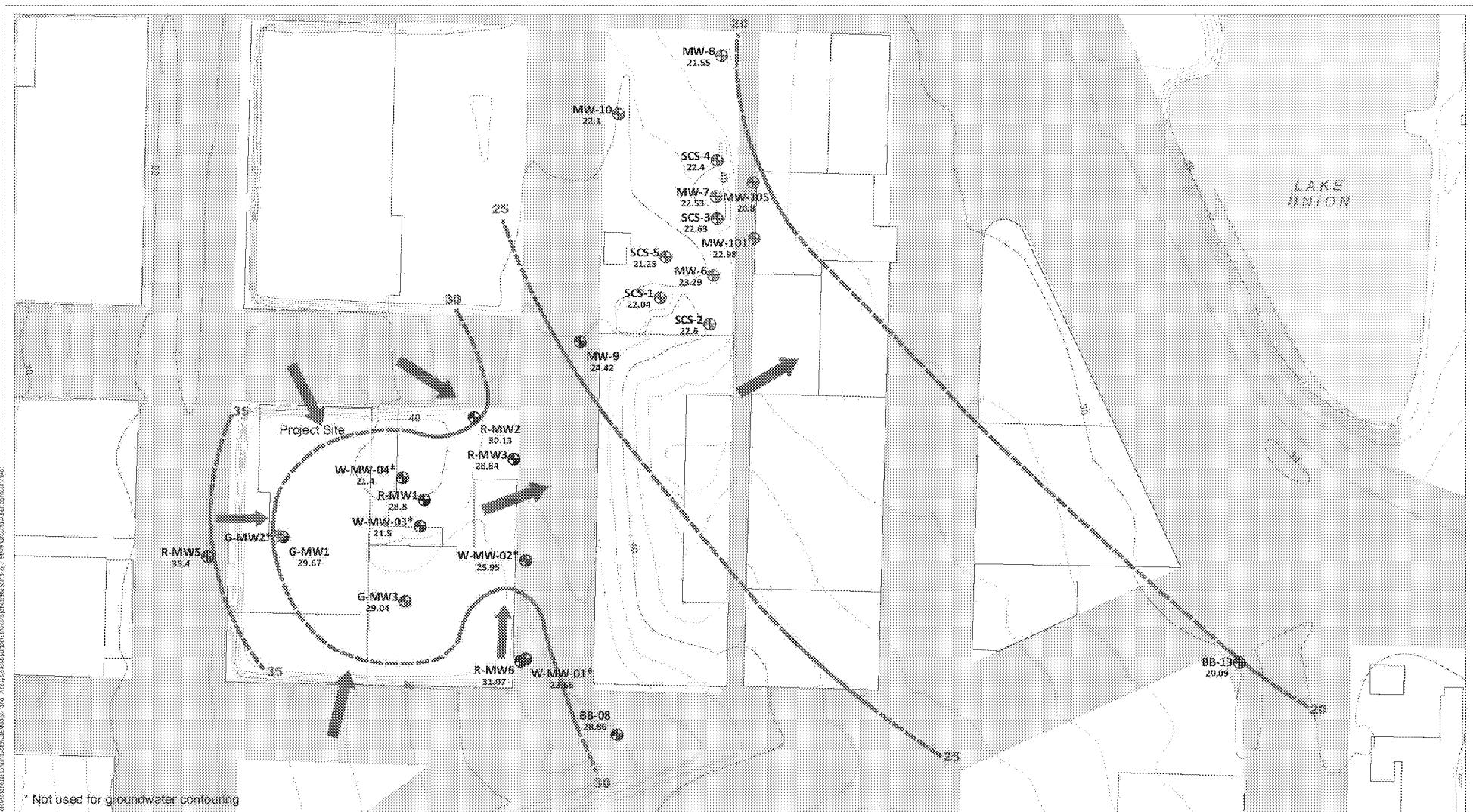
ID – identification

SCL – Seattle City Light

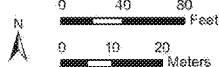
TOC – top of casing

4.3 GROUNDWATER ELEVATION CONTOUR

An inferred groundwater contour and flow pattern map, based on the February 2012 water levels measured, is included as Figure 7. The figure is drawn with 5-ft contour intervals displaying the general local groundwater flow.



WindWard
environmental LLC



Monitoring wells
 ● Confirmed location and designation
 ○ Approximate location and designation
 23.65 Groundwater elevation in feet above mean sea level (NAVD88)
 33 Groundwater elevation contour in feet above mean sea level (NAVD88) (dashed line is approximated contour)

Figure 7. Groundwater elevation contours, February 2012
 American Linen Supply Co. Inc.
 Seattle, Washington

Several wells were not used to create the groundwater contour shown in Figure 7. Professionally obtained survey coordinates and vertical datum were unavailable for site well G-MW2; thus, its position and groundwater elevation could only be approximated, and this well was not used for contouring. Each of the four new wells installed during this investigation, screened at depths significantly deeper than existing site wells, displayed groundwater elevations notably higher than the depth at which groundwater was encountered during drilling, and higher than adjacent and nearby wells. These wells are presumed to be screened in a zone confined locally from overlying groundwater, and groundwater is assumed to be rising in the wells under hydrostatic head; as a result, the four new wells were not used for contouring.

As seen in Figure 7, local groundwater screened at relatively shallow depths generally flows east-northeast toward the south end of Lake Union. In the immediate vicinity of the site, groundwater appears to be flowing, from the north, west, and south, into a depression that corresponds to the approximate excavated foundation of the site footprint; from there, groundwater follows the local flow direction to the east-northeast.

The four new groundwater monitoring wells were considered for separate contouring. However, their relatively linear configuration and the uncertain effect of hydrostatic head were considered prohibitive for a reliable analysis.

5 Conclusions

The site subsurface soil and groundwater investigation was completed in January and February 2012. Soil borings were advanced at four site locations, and groundwater monitoring wells were installed to evaluate the distribution of halogenated and non-halogenated VOCs in subsurface soil and groundwater associated with former dry cleaning operations at the site. Beyond characterization of VOCs at the site, a local survey of groundwater elevations was implemented, using both on- and off-site groundwater monitoring wells, and data were collected to further interpret the flow of local groundwater.

Detectable concentrations of PCE were found in all but two soil samples, with the highest concentrations being in borings P-07 (W-MW-03), P-06 (W-MW-02), and P-03 (W-MW-01) within a vertical zone from an elevation of about 13 to -14 ft msl. Detectable concentrations of TCE were significantly lower, but showed a distribution similar to that of PCE. Concentrations of PCE and its degradation products in groundwater followed a similar distribution, both laterally and vertically. In general, for both soil and groundwater, detected concentrations of PCE and its degradation products were lower in boring P-03 (W-MW-01) than concentrations detected in the other three borings; however, at an elevation of 13 ft msl, concentrations of PCE and TCE in soil at P-03 (W-MW-01) are comparable with those at the same elevation in nearby P-06 (W-MW-02).

Groundwater flow in the greater vicinity of the site follows the general surface topography to the east-northeast, toward nearby Lake Union. An apparent depression in the groundwater flow corresponds to the excavated footprint of the buildings at the site, after which groundwater flows to the east-northeast with the general groundwater trend.

Vertically, the varying concentrations of VOCs, particularly PCE and TCE, in soil at differing depths suggest that the vertical migration of VOCs is constrained locally, but not confined site-wide, by alternating and discontinuous layers of dense, glacially deposited silts. Concentrations of PCE and TCE are highest within a vertical zone of 13 to -14 ft msl at P-03 (W-MW-01), P-06 (W-MW-02), and P-07 (W-MW-03), with another elevated zone at P-08 (W-MW-04) from -24 to -36 ft msl.

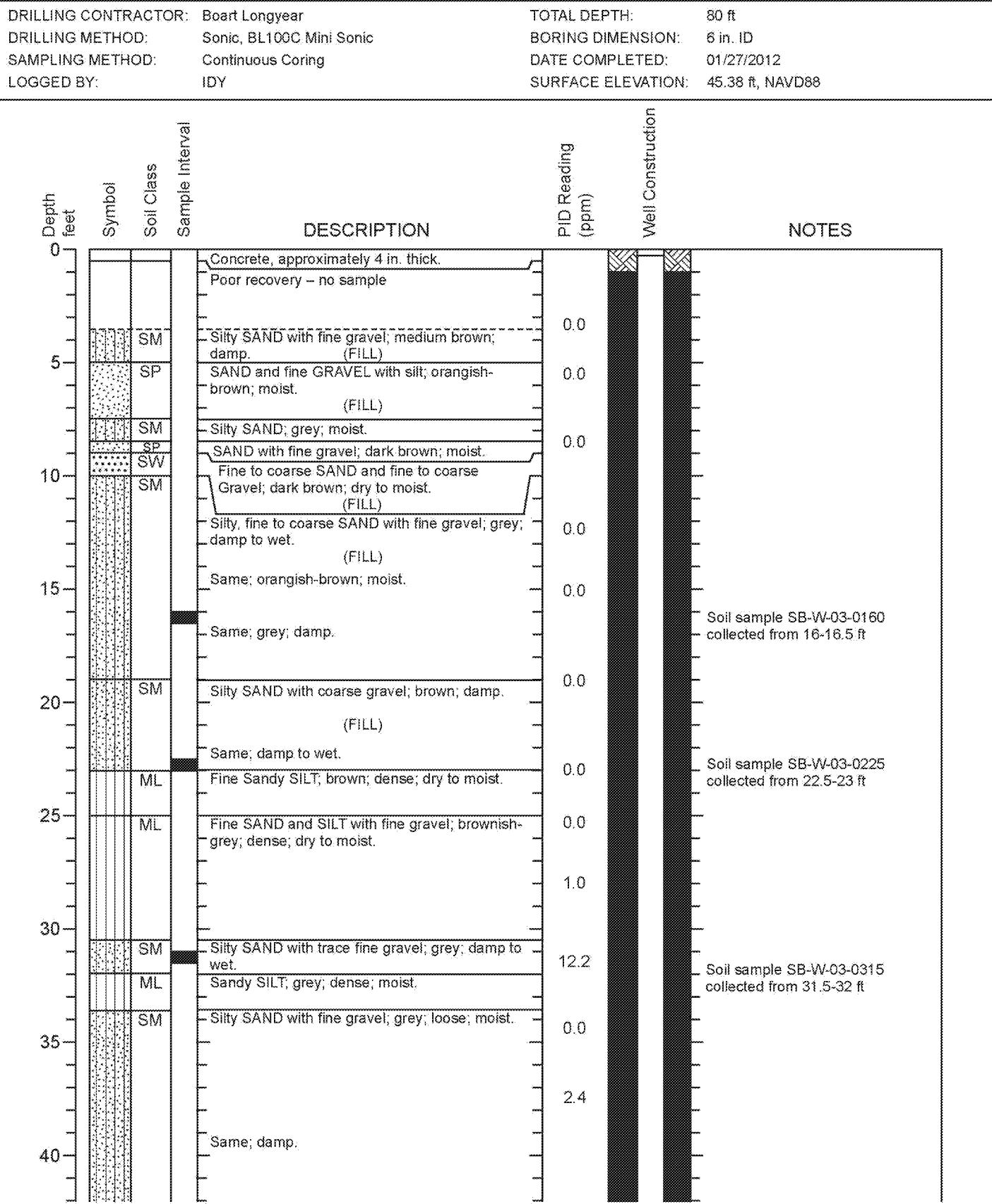
Horizontally, comparable elevated concentrations of VOCs in soil at elevations between 13 and -14 ft msl suggest a probable source area in the southeast quadrant of the property in the vicinity of monitoring well G-MW3. Another possible source area is associated with the elevated VOC concentrations detected in soil and groundwater in the northwest quadrant at P-08 (W-MW-04). As noted previously, groundwater appears to flow into the site from the north, west, and south, following the excavated footprint of the property, and pooling across the site at a broad, low gradient before following the general groundwater trend to the east-northeast. This broad, low gradient across the site may allow for the lateral migration of PCE and TCE in soils in the southwest

quadrant, while the inward flow of water from the south periphery, toward the source areas, may account for the significantly lower concentrations of these contaminants in groundwater at W-MW-01.

6 References

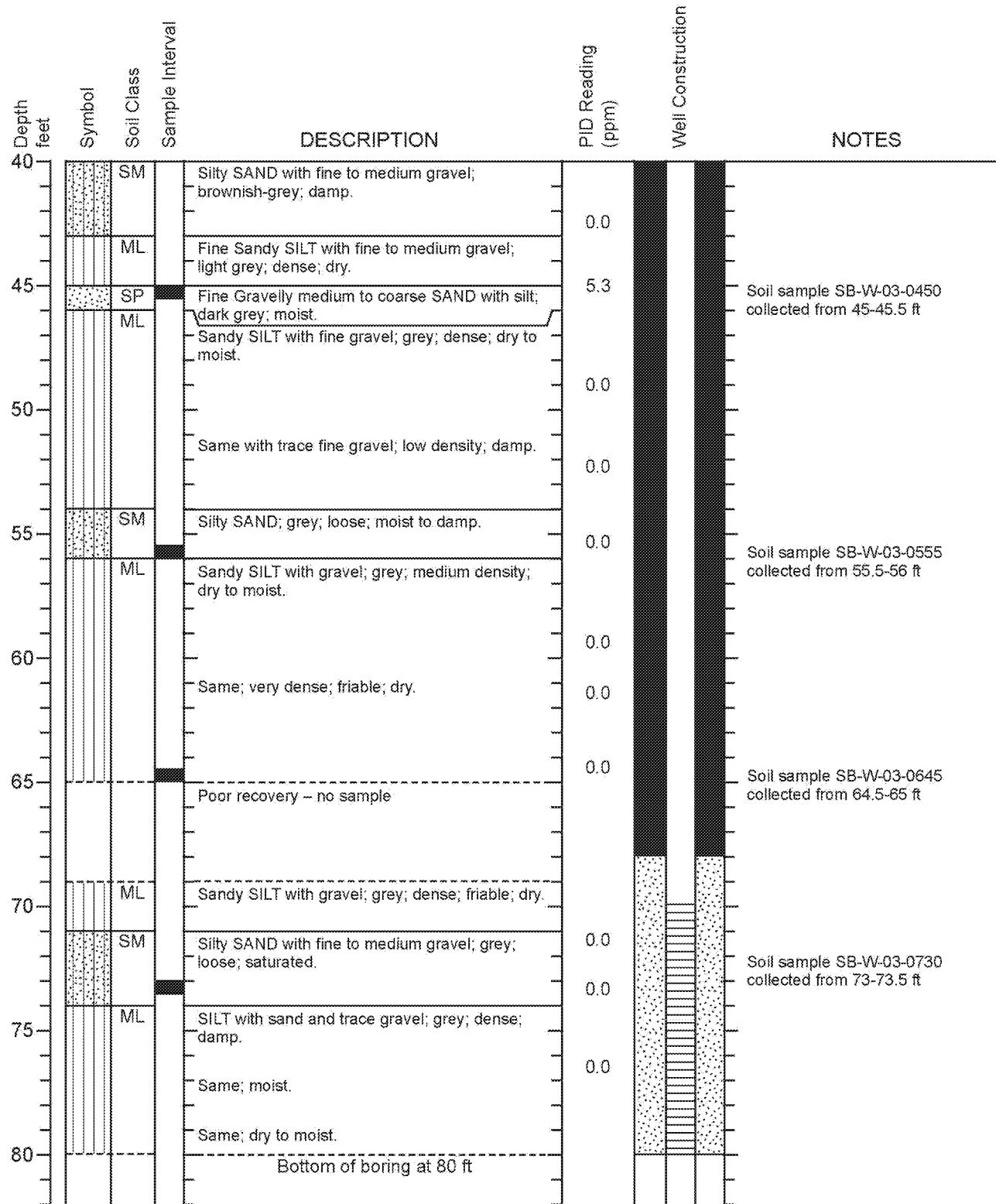
- ADEC. 2009. Monitoring well guidance. February 2009. Division of Spill Prevention and Response, Contaminated Sites Program, Alaska Department of Environmental Conservation, Juneau, AK.
- EPA. 2001. Standard operating procedures: Monitor well development. SOP# 2044. 10/23/01. Environmental Response Team, US Environmental Protection Agency, Washington, DC.
- Shannon & Wilson. 2012. Personal communication on February 8, 2012 (e-mail to Ian Young, Windward, from Shannon & Wilson: Seattle City Light property relative well groundwater well elevations). Seattle, WA.
- SoundEarth Strategies. 2012. Personal communication on February 2, 2012 (e-mail to Ian Young, Windward, from SoundEarth Strategies: Topographic survey, frontier renewal, 700 Dexter Ave. N., Bush Roed & Hitchings, Inc. 2010). Seattle, WA.
- Yeskis D, Zavala B. 2002. Ground-water sampling guidelines for Superfund and RCRA project managers. Ground Water Forum issue paper, EPA 542-S-02-001, May 2002, Office of Solid Waste and Emergency Response, US Environmental Protection Agency, Washington, DC.

APPENDIX A. BORING AND WELL CONSTRUCTION LOGS



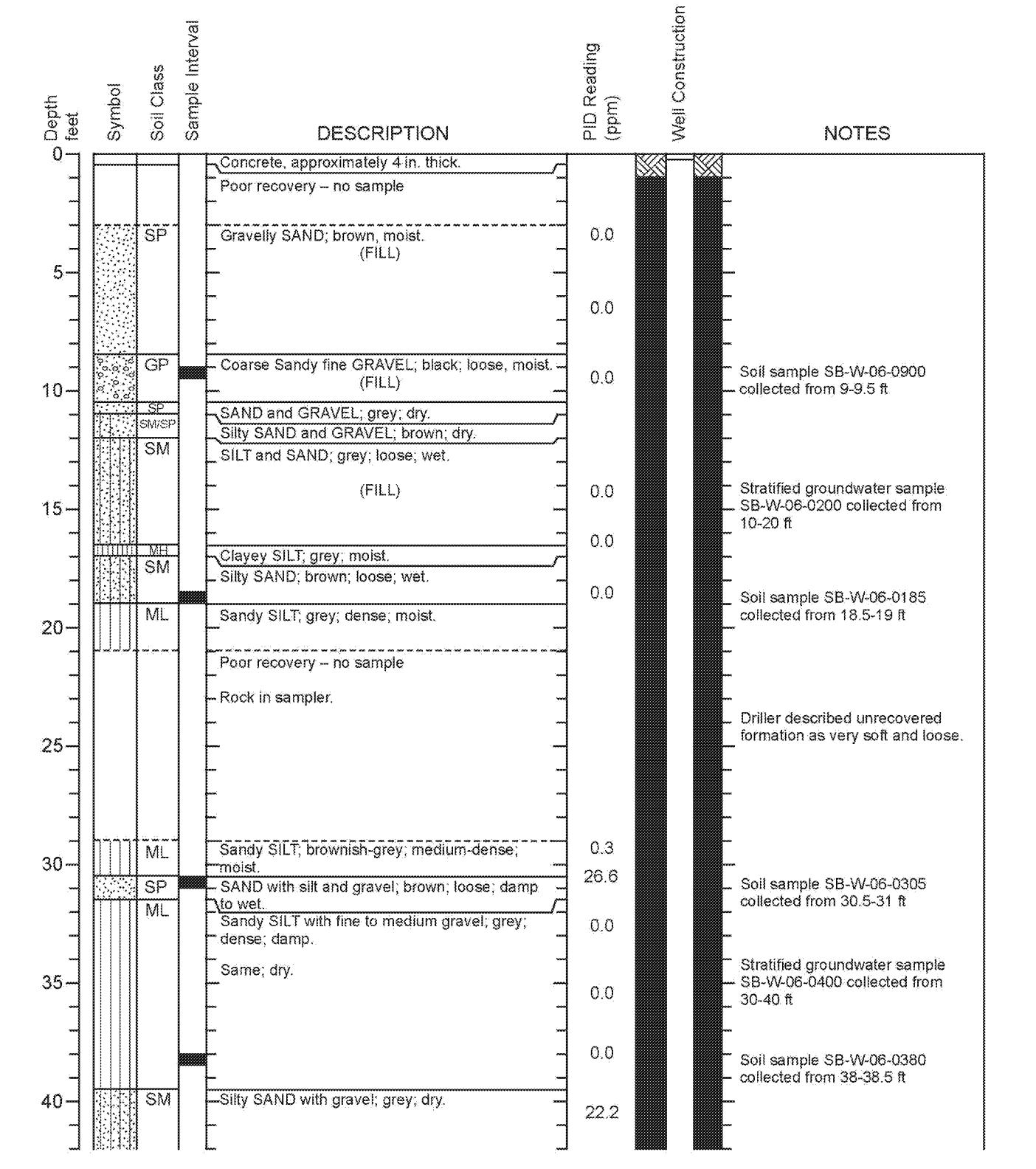
Boring P-03 / Well W-MW-01

DRILLING CONTRACTOR:	Boart Longyear	TOTAL DEPTH:	80 ft
DRILLING METHOD:	Sonic, BL100C Mini Sonic	BORING DIMENSION:	6 in. ID
SAMPLING METHOD:	Continuous Coring	DATE COMPLETED:	01/27/2012
LOGGED BY:	IDY	SURFACE ELEVATION:	45.38 ft, NAVD88

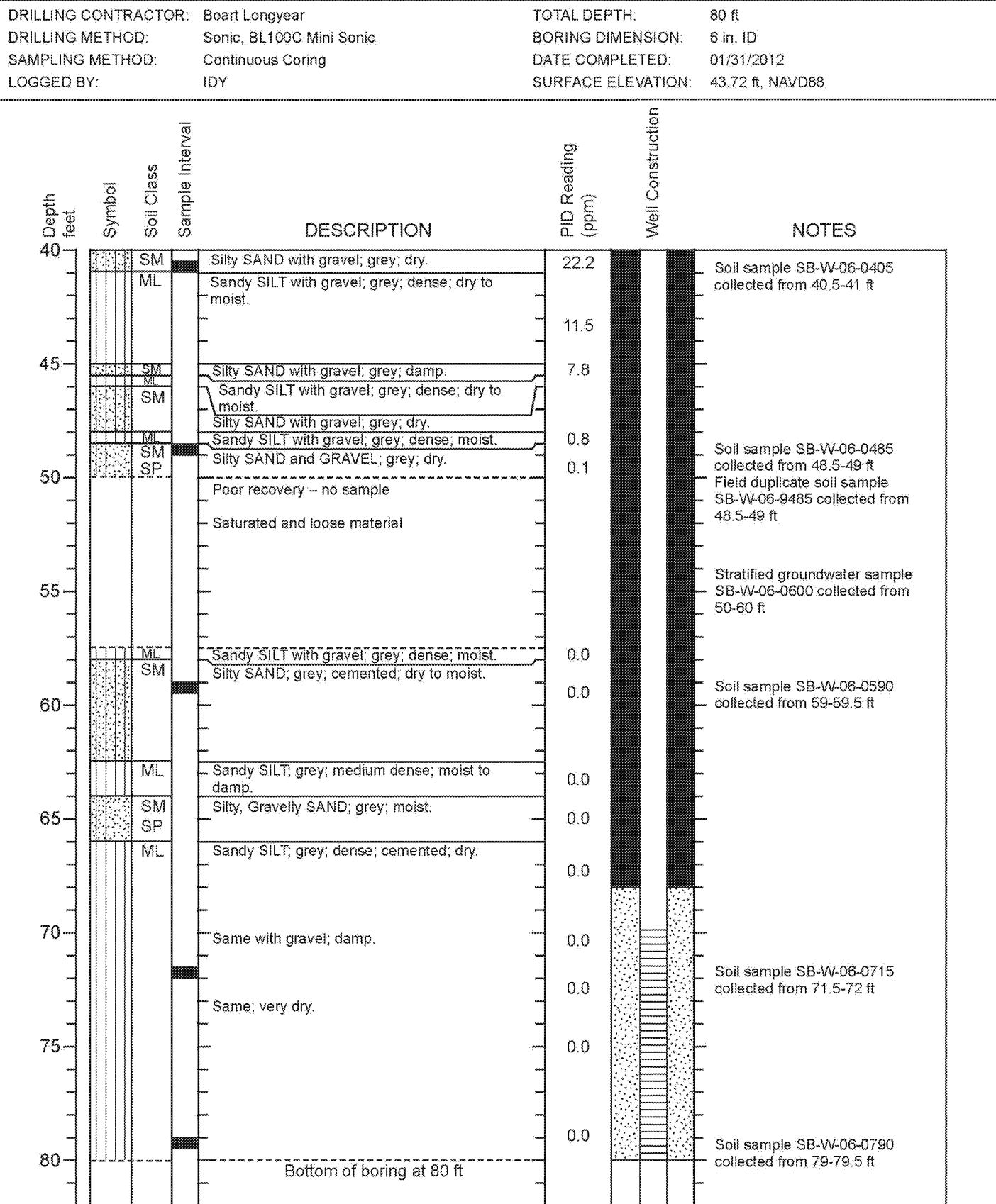


Boring P-03 / Well W-MW-01

DRILLING CONTRACTOR:	Boart Longyear	TOTAL DEPTH:	80 ft
DRILLING METHOD:	Sonic, BL100C Mini Sonic	BORING DIMENSION:	6 in. ID
SAMPLING METHOD:	Continuous Coring	DATE COMPLETED:	01/31/2012
LOGGED BY:	IDY	SURFACE ELEVATION:	43.72 ft, NAVD88



Boring P-06 / Well W-MW-02

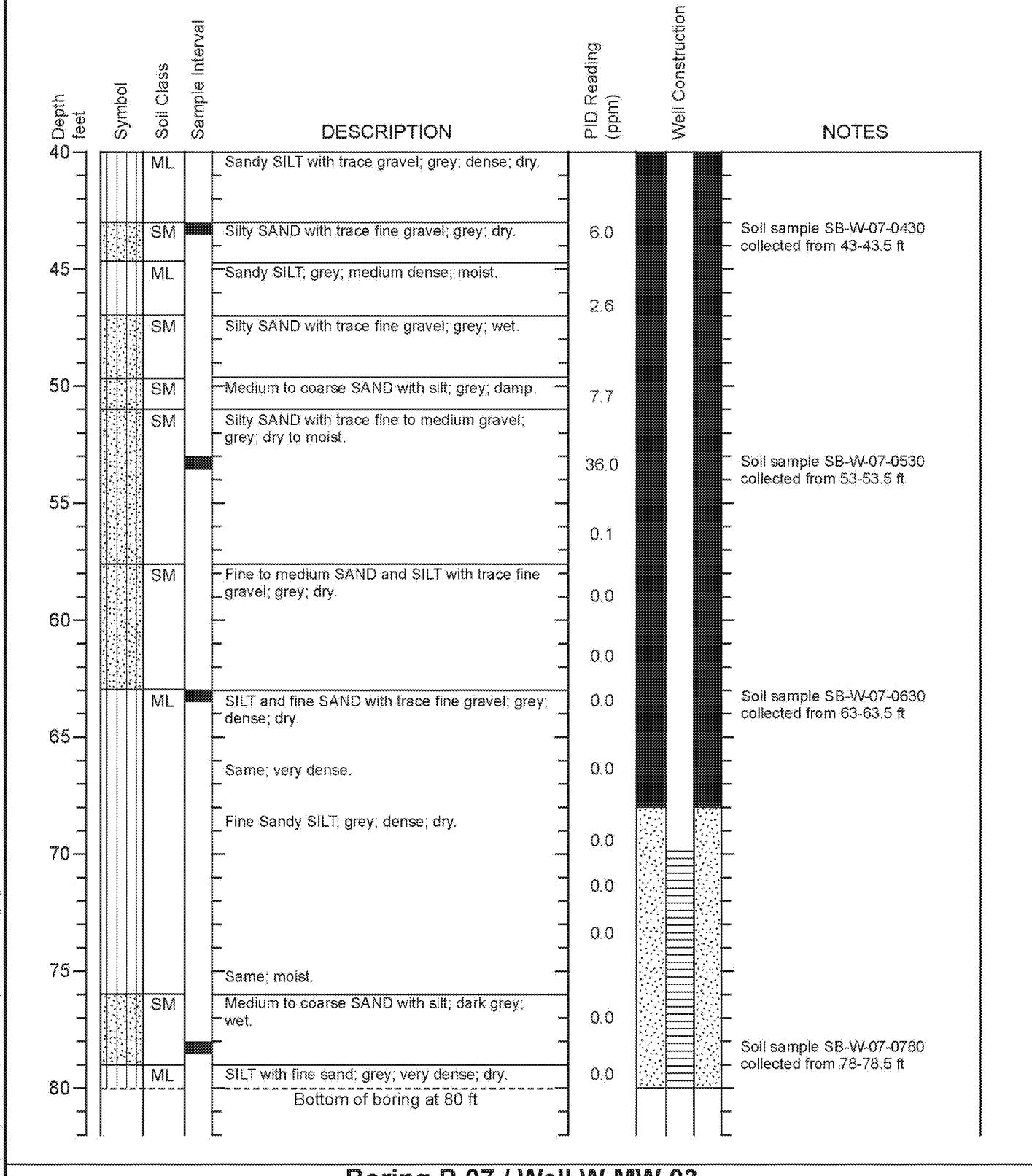


Boring P-06 / Well W-MW-02

DRILLING CONTRACTOR:	Boart Longyear	TOTAL DEPTH:	80 ft
DRILLING METHOD:	Sonic, BL100C Mini Sonic	BORING DIMENSION:	6 in. ID
SAMPLING METHOD:	Continuous Coring	DATE COMPLETED:	01/26/2012
LOGGED BY:	IDY	SURFACE ELEVATION:	39.55 ft, NAVD88
Depth feet	Symbol	Soil Class	Sample Interval
			DESCRIPTION
			PID Reading (ppm)
			Well Construction
			NOTES
0	GP		Asphalt, approximately 3 in. thick.
			Coarse GRAVEL with sand; medium to dark brown; moist. (FILL)
1	GP		Sandy GRAVEL; grey; moist. (FILL)
2	SP		Gravelly SAND with silt; medium brown; damp. (FILL)
5			
10	SM		Silty SAND; orangish-brown grading to dark grey; damp. Woody debris throughout.
11	SM		Silty SAND with coarse gravel; grey; damp. Brick debris throughout. (FILL)
12			Same with trace gravel; wet.
15	SM		Fine to medium SAND with silt; grey; damp. (FILL)
16	SM		Silty fine SAND with gravel; medium brown to greyish brown; medium dense; damp. (FILL)
20			Same; wet.
25	ML		Sandy SILT with fine to medium gravel; greyish brown; medium dense; wet.
26	SM		Silty SAND with fine to medium gravel; medium brown; loose; wet.
27			
28	ML		Sandy SILT; brown; medium dense; damp.
29	SP		Med to coarse SAND; orangish-brown; damp.
30	GP		Sandy fine to medium GRAVEL; brown; damp.
31			Silty SAND; brown; damp.
32	ML		Sandy Gravelly SILT; brownish-grey; dense; dry.
33	SM		Silty SAND with trace gravel; brown; damp.
34	GW		Sandy fine to coarse GRAVEL; grey; dry.
35			
36	ML		Sandy SILT; grey; dense; moist.
37	ML		Sandy GRAVEL; grey with orange; dry to moist.
38			Sandy SILT with trace gravel; grey; dense; dry.
40	ML		

Boring P-07 / Well W-MW-03

DRILLING CONTRACTOR:	Boart Longyear	TOTAL DEPTH:	80 ft
DRILLING METHOD:	Sonic, BL100C Mini Sonic	BORING DIMENSION:	6 in. ID
SAMPLING METHOD:	Continuous Coring	DATE COMPLETED:	01/26/2012
LOGGED BY:	IDY	SURFACE ELEVATION:	39.55 ft, NAVD88



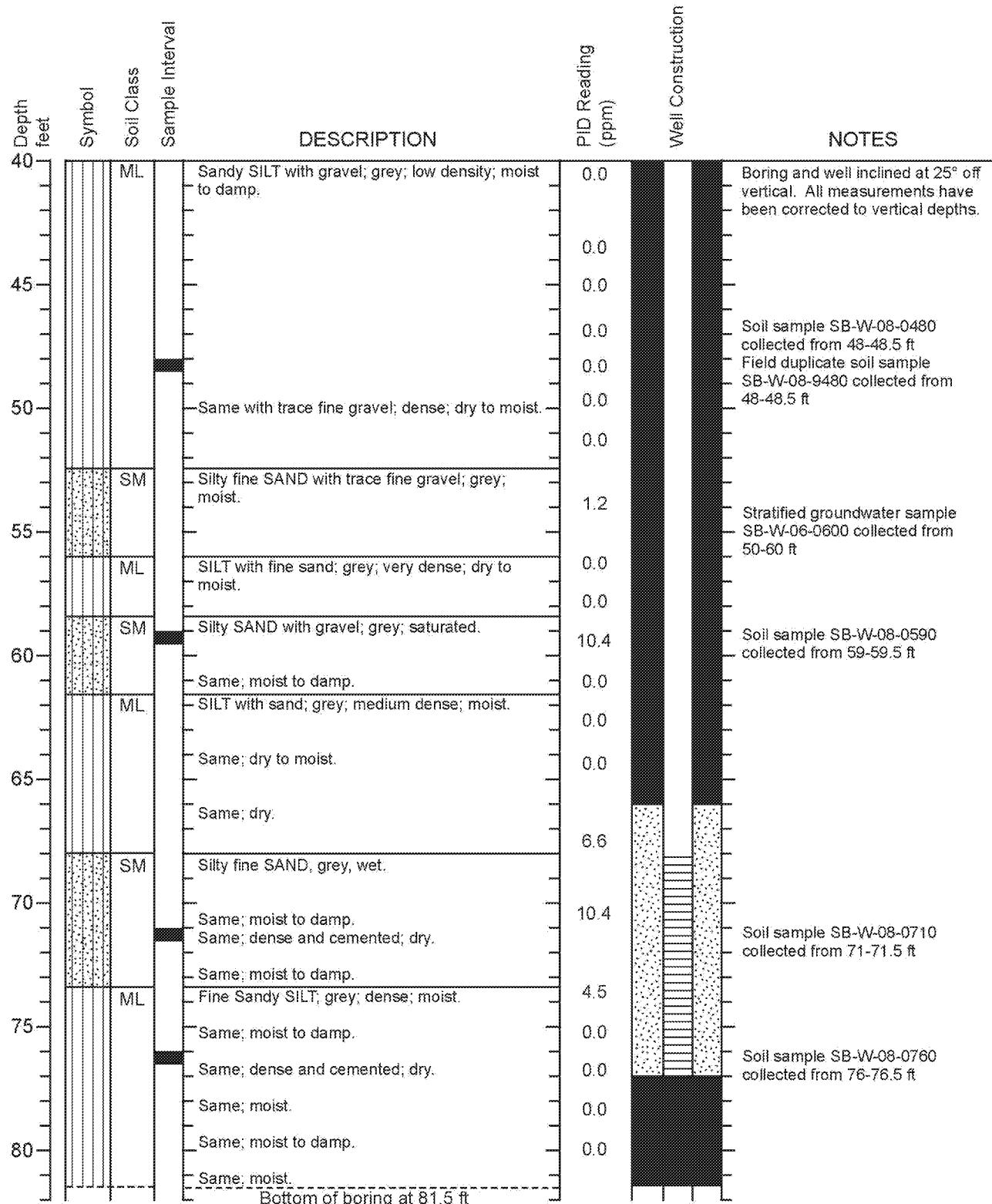
Boring P-07 / Well W-MW-03

DRILLING CONTRACTOR:	Boart Longyear	TOTAL DEPTH:	81.5 ft
DRILLING METHOD:	Sonic, BL100C Mini Sonic	BORING DIMENSION:	6 in. ID
SAMPLING METHOD:	Continuous Coring	DATE COMPLETED:	01/29/2012
LOGGED BY:	IDY	SURFACE ELEVATION:	35.87ft, NAVD88
Depth feet	Symbol	Soil Class	Sample Interval
DESCRIPTION	PID Reading (ppm)	Well Construction	NOTES
0 Asphalt, approximately 3 in. thick. Poor recovery – no sample	0.1		Boring and well inclined at 25° off vertical. All measurements have been corrected to vertical depths.
5 Brick stuck in sampler from surface. Dark petroleum staining on trace soil recovered.			
10 SP SAND and GRAVEL; dark petroleum stain; damp to wet. Fibrous woody debris. (FILL)	38.8		Soil sample SB-W-08-0090 collected from 9-9.5 ft
11.5 SM Silty SAND; brownish-grey; damp. (FILL)	0.0		
12.5 ML Sandy SILT; grey; loose; damp. (FILL)	0.0		
13.5 MH Clayey SILT with fine sand; brown; dense; moist.			
15 SP SAND and GRAVEL with silt; brown; damp. (FILL)	1.8		Stratified groundwater sample SB-W-08-0200 collected from 10-20 ft
16.5 ML Sandy SILT; brown; dense; damp.	0.0		Soil sample SB-W-08-0155 collected from 15.5-16 ft
18 SM Silty SAND grading to Silty SAND and GRAVEL; greyish-brown; loose; damp to wet.	0.0		
20 SM Silty fine SAND; brown; medium dense; wet.	0.0		
21.5 SM Medium to coarse SAND with silt; brown; wet.			
22.5 SM SILT and coarse SAND; brown; loose; wet.	0.0		
23.5 SM Medium to coarse SAND with silt; brown; damp.			
24 GM SAND and SILT with gravel; brown; medium dense; wet.			
25.5 SM Silty GRAVEL and SAND; brown; loose; wet.	0.0		
26.5 SM Silty medium to coarse SAND; brown; wet.	0.0		Soil sample SB-W-08-0265 collected from 26.5-27 ft
27.5 GW Fine to coarse GRAVEL and medium to coarse SAND; brown; wet.	0.0		
29.5 ML Sandy SILT; brown; medium dense; wet.			
30.5 SM Silty SAND; brown; loose; wet.	1.8		
31.5 ML Sandy SILT; brown; medium dense; wet.			
32.5 SM SAND with silt; greyish-brown; wet.	5.6		
34.5 SP Gravelly SAND with silt; brown; wet.			Stratified groundwater sample SB-W-08-0400 collected from 30-40 ft
35.5 SM SAND with silt; greyish-brown; wet.	1.3		
37.5 SP SAND with gravel; greyish-brown; wet.	0.5		Soil sample SB-W-08-0380 collected from 38-38.5 ft
38.5 ML Sandy SILT; brown; loose; wet.			
39.5 SP SAND and GRAVEL; brown; wet.	0.0		
40.5 ML Sandy SILT with gravel; grey; low density; moist to damp.			

Boring P-08 / Well W-MW-04

DRILLING CONTRACTOR: Boart Longyear
 DRILLING METHOD: Sonic, BL100C Mini Sonic
 SAMPLING METHOD: Continuous Coring
 LOGGED BY: IDY

TOTAL DEPTH: 81.5 ft
 BORING DIMENSION: 6 in. ID
 DATE COMPLETED: 01/29/2012
 SURFACE ELEVATION: 35.87ft, NAVD88



Boring P-08 / Well W-MW-04

APPENDIX B. FIELD LOGBOOK

2

3

- 1302 American Bison Tr.
- 0735 Arrive on site. Tom Young and Tho. D. & W. arrived.
Reconnaissance site, confirm previous location
0800 Board helicopter (Cessna) return to site
Operating support vehicle 4 ton 82b
Contact with business manager, Adam Hulten. He sent vehicles off P.O.T
0815 Check truck and site 5' overall on site.
Begin at Bl (with operator) movement
Slight back fill
Begin heliopic support supplies to P.O.T
0900 Bl continuing set up
0915 Take off 1/3 morning
0930 Bl and begin moving no helicopter P.O.T
P.D. charged and connected on helicopter
0935 Begin loading
- 1340 Completed soil sampling
Try hole for DTW after 05 hrs.
 $\Sigma 63'$ go
Turbulent driller to install screen
From 70'-80' up board
End filter pack from $\Sigma 68'$ - 80'
Bentonite soil from 2'-68'
Concrete from 0'-2'.
1400 Tho. departing site to prepare CEC
and deliver samples to lab.
1445 Continuing in site and filter pack
complete at 68' go.
Beginning to add bentonite pellets.
Bentonite soil completed the surface
Evening. Well removed. Some
Slight 3' infiltration coming in the
morning
1545 Prepping work site for Friday drilling.
1600 All done with Bl. now turning
rig on site, supporting on side path.
Departing site for the day.
- H. D. H.*
- Lorry with crew in while completing
soil sampling.

1/22/12 American Bison TY
 0730 Arrive on site with Mike Young off
 Windward.
 Met Dr. Miller and Park Ranger (Ferry)
 or who coordinated Bison & Blk with
 Ferry for erosion. Lookers at P.O.
 and P.O. below coring
 Bim determined that due to angle of
 scarp of P.O. their stockade-like banks
 would hold their soil if the waterway
 25' right. They are bringing in some
 their banks to adjust them banks like
 today.
 However, we will truck out 5' back
 to a dense P.O. bank. We will have
 P.O. in. Soddy.
 0830 Rig setting up no wind P.O. white
 being used. Completes P.O. in.
 0930 Rockfall due coring departing site.
 Bl set up on P.O. Commencing about
 1100 Creek Creek at SES on site.
 1145 John Fundarkbank SES on site.
 1230 Team trucking by already fixed GW.
 everything is not having performed an
 boring P.O. I informed him they

1/22/12 American Bison TY
 1030 cold
 it was set on one concert except to
 do wind. That despite his claim to
 the contrary, they had never done
 one scope to do so. I informed
 John that our verbal instruction from
 the King following the settling of
 Rott indeed was to move stabilized
 GW implying off to P.O. with an
 option provision to do so of ~~the~~
 other banks with go at geological
 observations.

In my opinion, none of the soil intervals

between 26', 40', and 60' displayed
sufficient water to complete.

1245 John Fundarkbank departed site.
 Creek Creek departed site
 1330 Boring completed to 80' by a
 GW of 70'. Lining site
 GW of ~50' by...
 Mike Young departed site.
 Creek Creek back on site.
 Drillers installing well
 Screen 70' 80'
 Sand Pack 68' 80'
 Bentonite Soil 1'-68'

8

1/27/12

Marine bison

D

1/28/12 Marine bison

D'

?

Cont'd

1510 Diller have installed 12" Shrub mount

below on walls at P02 and P03

Other asked for 8" in Shrub

Functionally the same, but cost is

higher. Discussed it with Bill.

Will discuss it with Pat before af-

ter recesses it with Pat because af-

Br.

1630 Completed construction of wall at P03

Completed new borer for angled boring and

set up rig on P03 for Sunday morning

boring on site during P03 day.

0835 Positioned rig on hole. May 10 at

inclination and 20' off P03. Set

vertical, placing blankets on mud to

minimize rough.

Top of boring located & 8' from edge

of loading dock. Boring will proceed

down west toward building.

0450 Has bridge

0835 Beginning boring to 20 linear

feet. Spur 30 ft vertically

0920 Workers finished at Wm. Warden

site.

0930 20 linear ft reached. Traversing

left P04 screen and 15 ft blanket.

pulling up entire screen to 1st ma-

nual.

1928/19 American bream

D

1928/19

American bream

M

1000 Water tagged at 15 ft. more
St. to T.C. Toc., 2.8
hours from release.

Catal

wildly. We will take shallower
at probability and take other specimens
than samples.1010 Water, f. 10 ft. S. T.C., 2.8 hr.
= 28.1 ft. water!
St. and pH = 4.00
MV = 0.0
Ctd, 4.4 ft. sec./m.

	1410	1423	1426
Temp.	16.5	16.3	16.5
pH	6.7	6.73	6.76
DOP	-126	-121	-119
ml	0.305	0.314	0.310
ml	Ctd	0.304	0.310
ml	Turbidity	74.6	84.4
ml	DO	0.05	0.04
ml	Oxygen	0.046	0.046

Water pH = 4.00

MV = 0.1

Ctd = 4.4 ft. sec./m.

1928 Collecting SW sample

S-B-W-022 of depth
of 20' water!Commonly bottom again.
Collecting with sample depths from
depths of 25'bogs will be linear
Sample depths will be varied.Beginning page 140 later. P.
Bring set to 34.35; just above1030 Begin page.
1135 In ground water, all permanent but turbidity
has become relatively stable. Turbidity
continues to be high, and fluctuates1350 M. with 20' water! Turbidity
is not changing yet

10

41

1628/12 American River TV
Collected what Col sample SB-W-08-040
2nd recording parameters.
1352 1357 1400

Temp °C	10.1	10.9	10.9
pH	6.8	7.0	6.67
ORP mV	-187	-188	-188
Conductivity	0.614	0.616	0.610
Turbidity	>1000	>1000	>1000
DO mg/l	0.64	0.64	0.62

1405 Collected Col sample SB-W-08-040.
1615 Depth referenced to Col line in
Well screen inserted.
1630 Ruled well will have insufficient
time to sample pump screen before
night fall.
Sounding being done night. Will clean
out hole again to 16' in morning
and re-insert screen.
Cleaning up site for night
1650 Departing site.

$$\text{pH} = 4.01$$

$$\text{NTU} = 0.2 \text{ NTU}$$

$$\text{Cond} = 4.51 \text{ mho}$$

0745 Beginning purge with purified
pump tubing set at ~50°.

Water purging relatively clear
but holding reading remain high
as with yesterday's samples
(~900-1000 NTU).

	0740	0743	0746
Temp C°	10.43	10.81	10.91
pH	7.53	7.66	7.54
ORP mV	-156	-162	-171
Conductivity	0.505	0.516	0.508
Turbidity	446	389	394
DO mg/l	1.56	1.55	1.52

0740 Arrived site. The Drilling
hole Drillers have already started
in hole to 66' and selected

12 Sept. 12 American Linen
Cont'd
0440 Collecting GW samples
58. 5 - 68. 0000
0430 Hitting rock Has to take
drilling crew resumes drilling.
Drilling site briefly to buy in
for samples.

0440 Return to site. Drills have resonated
drilling beyond 60' linear ft.
0445 Comp. took linear distance of
90', or 81.5 ft variation.
Estimated zone of ~75-76 linear
ft might be water lost in erosion
from sampling at 60' variation
interval.

1430 DTV = 58 linear ft to TAC
1440 DTV = 57.5 " " "
1450 DTV = 56.9 " " "
Water is coming in, but slowly.
Bottom & drill bit eroded in currently
at 76 linear ft. D. H. inst. 11
prepared screen from 85-95'
linear ft.

1450 Drilling site briefly to buy in
for samples.
1450 Completed installing wall at
P.O. Then Do return to site.
Check Creek at SES visiting
site.
Crew cleaning up at P.O. and
returning over to P.O.
Chuck Creek drilling site
Dig out top on P.O. Then
dig to bottom to 20', insert
filter screen. Then sample
GW. No more drilling after
this.

1450 Drilling bit to 20'.
Inserting filter screen at 10.20'.
No water yet.
1540 Water of only 19.3 ft. Not enough to
sample. Sacking hole for the night
and departing site with rig in place.

1540 The departing site temporarily to
1224

S. C. L.

14

15

1/30/12

American Linner

21

45

0920 0923 0926 0929
 Accts on site. Mike Yenner &
 Windward on site. Proprietary collection
 & multi-meter.

0925 Dr. Miles arrived on site to the complaint.
 Open cavity has been exposed to temp well
 at Pk.

Miles - flight machine

0910 DTW = 13.0 ft
 DTB = 20.1 ft

$$\Delta = 7.1 \text{ ft}$$

0915 Calibration:
 Temp = 3.09
 pH = 5.0
 Conduct = 4.53 mS/cm
 Turb = 126 NTU
 DO mg/l = 6.81

	0932	0935
Temp C°	11.36	11.13
pH	6.09	6.64
DO mg/l	-0.12	-0.13
Conduct	1.14	1.13
Turb NTU	126	125
DO mg/l	5.31	6.14

0945

Began pump at Pk. 20 ft down!
 Initial turbidity ~ 250 NTU.

0940 Turbidity = 160 NTU

Other parameters changing as well.

0945 Turbidity = 120 NTU

OK

0945 Water in temp well destabilizing. Proprietary
 is running water faster than recharge.
 Will sample with our stabilized
 parameters for concern of further
 changing day.

0940 Collecting CB sample SB-Wk-0200

0945 Dr. Miles running being from

DO mg/l = 16.89

16

1/30/12
Cont'd

American Linen

IY

Depth reached at 40' bgs. Screen placed in hole with drillers after casing pulled up to ~30'. Water coming in fast.

1115 DTW = 24' bgs.

1119 DTW = 23' bgs.

1123 DTW = 22' bgs.

1128 DTW = 21' bgs

Beginning purge at 40' interval.
Very difficult purge. Water is notably turbid and not clearing up.

1215 1216 1221

Tapp C°	12.63	12.70	12.64
P _H	7.22	7.04	7.10
ORP mV	4	-51	-53
Cond. μM	1.10	1.11	1.11
Turb. NTU	>1000	>1000	>1000
DO mg/l	6.51	5.40	5.83

17

1/30/12
Cont'd

Parish the pump did not work. Switched to older pump

1455

Tapp C°	14.50	16.37	17.14	17.45
P _H	7.86	7.73	7.83	7.78
ORP mV	-317	-387	-569	-579
Cond. μM	1.11	1.10	1.08	1.07
Turb. NTU	>1000	>1000	>1000	>1000
DO mg/l	1.15	0.80	0.67	0.60

Tapp C°	17.43	17.30
P _H	7.83	7.74
ORP mV	-585	-582
Cond. μM	1.07	1.06
Turb. NTU	>1000	>1000
DO mg/l	0.57	0.57

1225 Collecting GW sample SB-N-06-0400

1455 Driller running screen 3'

1730 Drill bit dropping hitting a 77'

Beginning purge. Water at ~37°.

Do not resume tomorrow.

1535 Collecting GW sample SB-N-06-0400

Drillers resuming drilling.

Drill bit dropping hitting a 77'

Will resume tomorrow.

1/31/12 American Linn II

Mike Jones on site Ma

0715 Mike Jones on site Ma
dinner

0725 1a5 fragata

0730 Resumed drilling at P06.

0740 Compacted sand 3 ft to 8.4 ft

Core sample extracted. Ma 16.8 ft

0810 Tom Young arrives on site

Review 52 ft w/ Mike V

Review 52 ft w/ Mike V

Drill rig suspended at 415.2' by s

WII set up and run at 25' 80'

Drillers are purging and developing

P07 / W-MW03.

0900 Notes regarding relatively clean

in W-MW03 (P07) after purge.

W-MW03 was purged at 49.5 m

Tac - 51.9 m into column

Volume 5 core = 0.17 gal/liter 54

Vol of sample = 1.33 gal/liter 54

Vol in core = $51 \times 0.17 = 8.67$ gal

in core = $10 \times 1.33 = 13.3$ gal
 $\frac{34.97}{3}$ gal

20	1/31/12	American Linen	24
Cant'd			
1200	Tried DTW on P.O. / W.M.W. dry.		
	DTW = 26.0 linear ft = 23.55 vertical ft.		
	Preparing puzzle For internal shot will come at P.L. broken during construction.		
1300	Dollars just completed removing broken edges of screen with sampler, and cleaning out hole.		
	New screen will be delivered soon.		
	Departing site for Africa while Mike Y. arrives on site.		
1400	Return to site. New wall screen arrived at 1400, installed under some instructions.		
1530	Completed wall, screened 70'-80' blank 0'-70' smrd 68'-80'		
	Testing wall box.		
1600	Performing neighborhood reconnoiter of St. via non-forging walls.		
1630	Met Chuck C. at on site. Presented plans to him. Outside walls, known surfaces on walls.		

22	2/1/12	American Linen	27	2/1/12	American Linen	28
0800	P.D. 1st arrives on site - Plan and Known only.		1015	Pump hoop cutting out after pumping roughly 3 gal of water.		
Tug Pos 1 W.M.W.O1:			DTW = 14.15'			
DTW = 19.2 ft from TOC			1030 Tugboat is not particularly slow. With pump Pumps cut out.			
Tug Pos 1 W.M.W.O2 from TOC			1100 Drifts more now in line pumps on ~15' x 14' m bottom (15.5' L width)			
DTW = 17.3 ft from TOC			Continuing to pump in series of ~2 gal at a time. Water no change visibly in bottom remains turbid.			
0815	Begin pump 2 POS 1 W.M.W.O1		Up to ~20 gal/bbl/pump.			
0820	Reused approximately 4 gal in 5 min. and wall can dry.		DTW = 19.4' from TOC			
0830	Rushing very slow		DTW = 19.4' from TOC			
0900	Rushing continues to become up to about 11 gal pumped. Water is very murky.		1100 P.02 / W.M.W.O3			
0915	DTW = 30.65'		DTW = 19.4' from TOC			
0919	DTW = 29.80'	Beginnings of water rise	DTW = 19.4' from TOC			
0924	DTW = 29.60'	= 0.167 gal/min	1200 P.03 / W.M.W.O4			
0927	Drift = 29.40'		Under consideration position pressure when well cap removed. Will allow 15 min to tug.			
0933	DTW = 29.20'		1200 P.03 / W.M.W.O4			
0935	= 29.00'		Initial DTW = 29.21' from TOC 24.4' net Water DTB = ? True losses measured at about 8'5" more ST.			
0937	= 28.80'					
0948	Beginning pump again		Other pumps have started. No flow			

24

24/12

American Liver

Tr.

24/12

American Liver

Tr.

25

24/12

Coral
and sponge in, extra white, pump of
help discoloring bottom mud &
fill depth.1310
Pump dredging old pump line
to P.D. Wheel at 20 ft. 20

to 75'.

P.D. Wheel is off. Not durability
is deteriorating bottom only to very
clayey, gray.1316
~ 60 ft. pump. Rugged 1 gal/min.1335
Water clearing up very quickly now
at least 50 ft. pump.1340
Begin beginning to boil bottom on
P.D. P.W. W.D.

W.D. - 10 ft. 5 ft. ~ 20 x 20 ft.

1345

Bottom turning pump down ~ 10 ft/min. 20'
Running gray, but clear.1350
Pump is apparently good.
W.D. is starting clear. Pump at
least 60 ft. C.M. development
done.1350
Beginning pump line to W.D. W.D.
Shifting pump line to W.D. W.D.24/12
Coral
W.D. wheel running visibly clear in
W.D. 20 ft. pump line 10 gal/min.
Flood tide 45 gal/min.
Not deterioration complete.1330
All drums stored
Drillers departing site. The day
before leaving site to the day
of departure.

2-2-12 American River

S. Fowler

2-2-12 American River

S. Fowler

- 0830 Mine Yarness & Sarah Forder
(line) arrive on site
- 0900 set up sampling equipment.
- 0917 Calibrate Monitor
- 0931 W-mw-04 (angled survey)
mp distance 0.45 ft
total depth 8.15 ft
- Dtu 6.33*
- * linear feet
- 0937 continue calibration on Monitor
(calibration errors)
- Cal. Solution
Sandbar pH 4.000
- 0.0 NTU
4.09 ms/cm
- 0950 measured 3.99 NTU
- 0 NTU
4.53 ms/cm
- 10:10 begin pumping at W-mw-04
- 10:37 Collect Gw-w-04-01
plus extra volume for wmw02
- 10:40 collect duplicate gw-w-04-02
- 11:16 move to W-mw-03
- Weather: partly cloudy 30s 90s
- 1132 mP distance 0.31 ft
total depth 7.35 ft
Dtu 8.23 ft
- 1215 begin pumping @ Gw-w-03
1245 collect Gw-w-03-01
1315 start back filling up at
W-mw-01
- Well is in construction zone
will be out of way until
they are out of way.
- 1347 Start at W-mw-01
- 1519 Sample Gw-w-01-01
- 1525 Start packing Sampling
grav.
- mp distance 6.51 ft
total depth 7.938 ft
Dtu 21.1 ft
- 1600 end of day

28

S. Fowler

02/21/12 FISCO

S. Fowler
2/21/12

2-3-12 American Linen S. Fowler

0830 Arrive at site

Mike James,
Sarah Fowler

Weather Sunny upper 30's

low 40's.

0845 begin setting up equipment.

at W-mw-02

mid distance 6.3 ft

Total depth 7.34 ft

DTH 17.2 ft \$1.

calibrate Horiba

cal solution

pH 4.000

O. O WRS

4.49 m³/m

calibration

3.98 pH

4.45 m³/m

0.0 m

9.24 m³/m DO

begin pumping @ W-mw-02

1035 Sample Env-w02-0

1130 End of day 2-3-12

Arrived on site to get wells
for low depth0845 begin opening wells. rail lines for
and location wells. rail lines for
shallowization1202 B-B-13 (prop) fuel (location)
measure depth to report casing
for all wells7.56 feet
no bolts1210 BB-8 (on road - Ray st)
only 1 bolt
15.39 pHR-mw (on corner of 8th Ray)
14.11 ftSidewalk to be paved
(next to R-mw)1213 W-mw-01
(21.22 ft.)Sidewalk to be paved
(alley) was broken

7.48 ft

1219 mw-102 (alley) was built
7.89 ftsmalls like pebbles
1222 mw-105 (alley) was built
10.46 ftJohn

2-7-12

S. Power

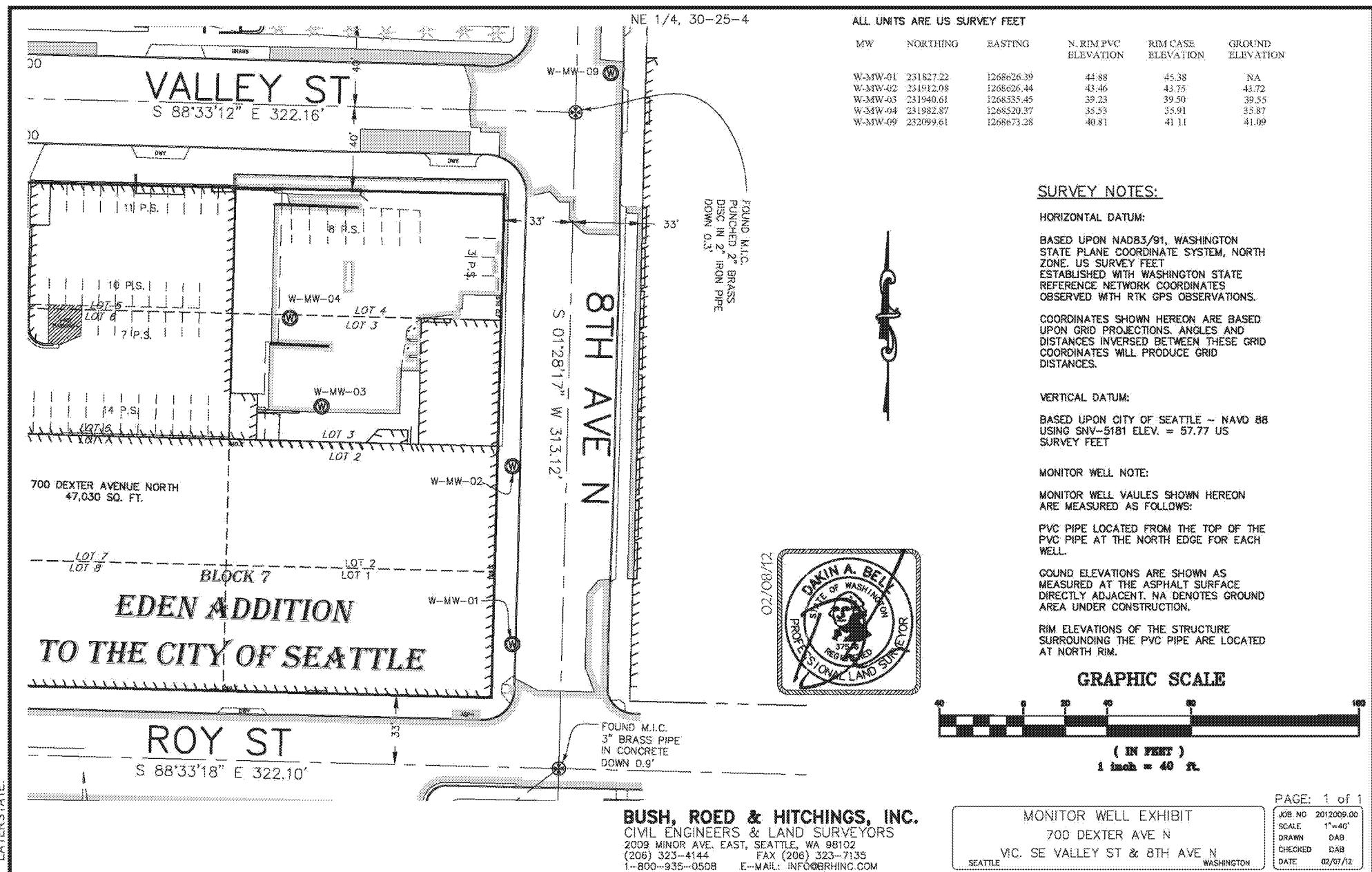
2-7-12

2 Lawer

122.4	mw-8 (was leveled, in paving lot)	1308	R-mw2 (was leveled)
123.1	S-8-4 (in paving lot)	1311	R-mw3 (in new paving lot)
	12.93 ft		12.90 ft
123.3	mw-7 (in parking lot, was leveled)	1314	w-mw-04 (long gun well)
	12.56 ft.		15.60 ft linear feet
123.5	S-8-3 (in parking lot)	1315	= 14.13 ft vertical feet.
	14.10 ft.		R-mw4 (was leveled) counted by IDY, 219 1/2
123.9	mw-10 (in parking lot, w-mw-03)	1316	R-mw4 (was leveled) R-mw1
	15.85 ft.		8.98 ft
124.7	S-8-5 (in paved area, was leveled)	1318	w-mw-03
	17.81 ft.		17.73 ft.
125.1	S-8-1 (in paved area)	1322	G-mw3 (in garage)
125.4	17.51 ft.		10.51 ft.
	covers portion of lot, only 2 volts.	1328	8-mw3 (in shop) G-mw1
125.4	mw-6 (in paved area, was leveled)		
	14.91 ft.	1329	9.34 ft. G-mw2 (wood shop)
no bolts, slight vibration small)			8.49 ft.
125.5	S-8-2 (in paved area)	1334	R-mw5 (shred - Dexter)
	16.56 ft.		21.61 ft
125.9	mw-9 (street) (westbound)	1340	End of day
	16.39 ft		21.4 - 18
1305	w-mw-8-2		
	17.51 ft.		

✓ back

APPENDIX C. WELL COORDINATE SURVEY



APPENDIX D. GROUNDWATER WELL SAMPLING LOGS

MONITORING WELL SAMPLING LOG

Owner/Location American Linen
 Well No. 61-mw-01 Sample No. 61-w-01-01
 Weather Partly cloudy 40's
 Well Site Conditions/MP Definition corner of Bay st & 48th

Date: 2-2-12

Duplicate No. n/a

MS/MSD? Yes No

SAMPLING DATA

Time Started 1347 LNAPL Thickness (ft) _____ Sample

PID Head Space (ppm) N/A DNAPL Thickness (ft) _____ Sample

MP Distance Above/Below Ground Surface (inches) 0.51

SAMPLE CONTAINERS

Total Depth of Well Below MP (feet)	DTW Below MP (feet)	Number	Size	Type	Pres.
<u>79.38</u>	<u>21.1</u>	<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>none</u>
<u>58.28</u>					
<u>21"</u>					
<u>0.16</u>					
<u>9.32</u>					

FIELD PARAMETERS

DTW (ft)	Liters Removed	Temp (°C)	ORP	pH	Cond. mS/cm	D.O. (mg/L)	Turbidity (NTU)	Salinity (‰)	Color	Time
22.10	0.5	13.99	-228	7.80	0.598	5.63	63.1	0.3	clear	1502
22.80	1.6	14.23	-330	7.77	0.592	2.51	60.2	0.3	clear	1417
23.57	2.5	14.28	-364	7.79	0.592	1.80	66.6	0.3	clear	1422
24.10	3.5	14.28	-369	7.81	0.591	1.61	79.4	0.3	clear	1427
24.60	5.0	14.28	-370	7.81	0.590	1.51	181	0.3	clear	1432
24.76	6.0	14.18	-370	7.81	0.592	1.64	199	0.3	clear	1437
24.94	7.0	14.05	-369	7.81	0.592	1.59	323	0.3	clear	1442
25.11	8.0	13.97	-369	7.81	0.594	1.59	337	0.3	clear	1447
25.07	9.0	13.91	-368	7.81	0.594	1.75	430	0.3	clear	1452
24.98	10.0	13.77	-365	7.80	0.594	1.75	508	0.3	clear	1457
24.89	11.0	13.62	-366	7.78	0.595	1.82	561	0.3	clear	1502
24.45	12.0	13.56	-364	7.77	0.594	1.80	568	0.3	clear	1505
24.39	13.0	13.28	-358	7.74	0.588	1.81	684	0.3	clear	1508

Evacuation Method flow rate: 250ml/min

Over

Purge Water Disposition (e.g., drum #) drum stored outside pending characterization

Water Quality (e.g., Sheen, odor) none

Sampling Method bladder pump

Sample time 1519

Sampling Personel MJ, SP

Duplicate Time n/a

Remarks (e.g., recovery rate) n/a

Time Completed 1525

WELL CASING VOLUMES

Gal/ft 1-1/4"=0.077 2"=0.16 3"=0.37 4"=0.65
 1-1/2"=0.10 2-1/2"=0.24 3-1/2"=0.50 6"=1.46

1/2

DTW	L Removed	Temp C	ORP	pH	Conci mS/cm	DO mg/l	Turb. NTU	Solids ppi	color	time
25 20	14.0	13.95	-359	7.83	0.601	1.57	735	0.3	clear	1513
		19.54	-365	7.83	0.695	1.56	714	0.3	clear	1516

2/2

MONITORING WELL SAMPLING LOG

Owner/Location American Linen
 Well No. W-mw-02 Sample No. CW-n-02-01
 Weather Sunny w/ a few 30's low 40's
 Well Site Conditions/MP Definition on sidewalk on 8th st.
 Date: 2-3-12
 Duplicate No. n/a
 MS/MSD? Yes No

SAMPLING DATA

Time Started	<u>0845</u>	LNAPL Thickness (ft)	Sample <input type="checkbox"/>	
PID Head Space (ppm)	<u>11.6</u>	DNAPL Thickness (ft)	Sample <input type="checkbox"/>	
MP Distance Above/Below Ground Surface (inches)	<u>feet</u> <u>0.3</u>	SAMPLE CONTAINERS		
Total Depth of Well Below MP (feet)	<u>79.34</u>	Number	Size	Type
DTW Below MP (feet)	<u>17.27</u>	<u>3</u>	<u>40ml</u>	<u>Glass</u>
Water Column in Well (feet)	<u>62.07</u>			Pres.
Casing Diameter (inches)	<u>2"</u>			
Gallons per Foot	<u>0.16</u>			
Gallons in Well	<u>9.93</u>			

FIELD PARAMETERS

DTW (ft)	Liters Removed	Temp (°C)	ORP	pH	Cond. mS/cm	D.O. (mg/L)	Turbidity (NTU)	Salinity (‰) ppt	Color	Time
18.02	0.5	14.60	-144	7.31	1.02	6.02	64.5	0.5	clear	8130
18.11	1.5	14.73	-308	7.46	1.62	2.02	97.8	0.5	clear	0935
18.19	2.5	14.71	-370	7.42	1.02	1.28	89.6	0.5	clear	0940
18.22	3.5	14.70	-383	7.43	1.02	1.10	74.1	0.5	clear	0945
18.24	4.5	14.72	-387	7.44	1.01	0.97	66.1	0.5	clear	0950
18.25	5.5	14.72	-390	7.45	1.00	1.41	47.4	0.5	clear	0955
18.21	6.5	14.70	-391	7.46	1.00	0.86	32.5	0.5	clear	1000
18.21	7.5	14.70	-389	7.45	1.00	0.89	27.5	0.5	clear	1005
18.20	8.5	14.69	-390	7.46	0.998	0.84	18.3	0.5	clear	1008
18.18	9.5	14.64	-388	7.46	0.993	0.84	13.6	0.5	clear	1011
18.19	10.5	14.56	-389	7.46	0.990	0.83	10.8	0.5	clear	1014
18.14	11.5	14.53	-390	7.47	0.988	0.83	9.3	0.5	clear	1017
18.14	12.5	14.48	-388	7.46	0.988	0.83	14.0	0.5	clear	1020

Evacuation Method flow rate 250ml/min over 47
 Purge Water Disposition (e.g., drum #) drum stored onsite pending characterization
 Water Quality (e.g., Sheen, odor) none
 Sampling Method bladder pump Sample time 1035
 Sampling Personel M.Y, SF Duplicate Time ~
 Remarks (e.g., recovery rate) n/a
 Time Completed 11:10

WELL CASING VOLUMES
 Gal/Ft 1-1/4"=0.077 2"=0.16 3"=0.37 4"=0.65
 1-1/2"=0.10 2-1/2"=0.24 3-1/2"=0.50 6"=1.46

11

DTW #	Removed temp °C	ORP	pH	Cond mg/lm	D.O. mg/l	Turb. NTU	Salinity ppt	color	time
18-13	13.5	14.46	-390	7.49	0.993	0.83	6.5	0.5	1023
18-10	14.5	14.47	-389	7.46	0.993	0.96	5.9	0.5	1026
18-09	15.5	14.45	-388	7.48	0.996	0.87	4.0	0.5	1029
18-07	16.5	14.41	-384	7.50	0.997	0.84	0.0	0.5	1032
18-05	17.5	14.43	-387	7.52	0.994	0.79	0.0	0.5	1035

MONITORING WELL SAMPLING LOG

Owner/Location American Linen
 Well No. W-MW-03 Sample No. GW-W-03-01
 Weather Partly cloudy, 40's
 Well Site Conditions/MP Definition by bay door.
 Date: 2-2-12
 Duplicate No. n/a
 MS/MSD? Yes No

SAMPLING DATA

Time Started 11:16 LNAPL Thickness (ft) _____ Sample
 PID Head Space (ppm) n/a DNAPL Thickness (ft) _____ Sample

MP Distance Above/Below Ground Surface (feet) 0.31

SAMPLE CONTAINERS				
Total Depth of Well Below MP (feet)	Number	Size	Type	Pres.
<u>73.5</u>	<u>3</u>	<u>40ml</u>	<u>glass</u>	<u>none</u>
<u>18.23</u>				
<u>57.27</u>				
<u>2"</u>				
<u>0.16</u>				
<u>9.16</u>				

FIELD PARAMETERS

DTW (ft)	Liters Removed	Temp (°C)	ORP	pH	Cond. mS/cm	D.O. (mg/L)	Turbidity (NTU)	Salinity (ppt/‰)	Color	Time
<u>19.13</u>	<u>1.0</u>	<u>13.35</u>	<u>-265</u>	<u>7.69</u>	<u>0.816</u>	<u>3.89</u>	<u>469</u>	<u>0.4</u>	<u>clear</u>	<u>12:15</u>
<u>21.45</u>	<u>2.0</u>	<u>14.49</u>	<u>-455</u>	<u>7.69</u>	<u>0.819</u>	<u>1.40</u>	<u>777</u>	<u>0.4</u>	<u>clear</u>	<u>12:18</u>
<u>23.00</u>	<u>3.0</u>	<u>14.63</u>	<u>-470</u>	<u>7.72</u>	<u>0.817</u>	<u>1.14</u>	<u>664</u>	<u>0.4</u>	<u>clear</u>	<u>12:23</u>
<u>24.40</u>	<u>4.0</u>	<u>14.24</u>	<u>-461</u>	<u>7.72</u>	<u>0.816</u>	<u>1.18</u>	<u>447</u>	<u>0.4</u>	<u>clear</u>	<u>12:28</u>
<u>25.65</u>	<u>5.0</u>	<u>14.08</u>	<u>-446</u>	<u>7.70</u>	<u>0.815</u>	<u>1.40</u>	<u>333</u>	<u>0.4</u>	<u>clear</u>	<u>12:33</u>
<u>26.10</u>	<u>6.0</u>	<u>14.05</u>	<u>-442</u>	<u>7.70</u>	<u>0.813</u>	<u>1.19</u>	<u>314</u>	<u>0.4</u>	<u>clear</u>	<u>12:38</u>
<u>27.58</u>	<u>6.70</u>	<u>14.16</u>	<u>-440</u>	<u>7.69</u>	<u>0.813</u>	<u>1.14</u>	<u>303</u>	<u>0.4</u>	<u>clear</u>	<u>12:41</u>

Evacuation Method 300 ml/min flow reduced to 250ml/min
 Purge Water Disposition (e.g., drum #) drum on site pending characterization
 Water Quality (e.g., Sheen, odor) none
 Sampling Method bladder pump
 Sampling Personnel MH, SF
 Remarks (e.g., recovery rate) —
 Time Completed 12:55

WELL CASING VOLUMES
 Gal/Ft 1-1/4"=0.077 2"=0.16 3"=0.37 4"=0.65
 1-1/2"=0.10 2-1/2"=0.24 3-1/2"=0.50 6"=1.46

11

MONITORING WELL SAMPLING LOG

Owner/Location American Linen
 Well No. GW-MW-04 Sample No. GW-W-04-01
 Weather Partly cloudy ~40°
 Well Site Conditions/MP Definition angled boring*

Date: 2-2-12

Duplicate No. GW-W-04-02
 MS/MSD? Yes No

SAMPLING DATA

Time Started 09:00 LNAPL Thickness (ft) _____ Sample

PID Head Space (ppm) N/A DNAPL Thickness (ft) _____ Sample

MP Distance Above/Below Ground Surface (inches) 0.4 ft. angled

Total Depth of Well Below MP (feet) 80.8 81.51* (73.8) Number

DTW Below MP (feet) 16.33* (14.7M) 8 Size 40 mL Type glass Pres. none

Water Column in Well (feet) 65.18* (59.05)

Casing Diameter (inches) 2"

Gallons per Foot 0.16

Gallons in Well 10.4 (9.45)

SAMPLE CONTAINERS

	Size	Type	Pres.
	40 mL	glass	none

FIELD PARAMETERS

Actual DTW (ft)	Liters Removed	Temp (°C)	ORP	pH	Cond. mS/cm	D.O. (mg/L)	Turbidity (NTU)	Salinity ‰	pH	Color	Time
17.85	18.82	13.98	-459	7.68	0.513	1.36	18.7	0.2	7.0	clear	10:16
18.87	20.39	13.69	-430	7.80	0.514	1.40	52.7	0.2	7.0	clear	10:21
19.83	21.45	14.24	-453	7.82	0.511	1.13	41.2	0.2	7.0	clear	10:26
20.50	22.63	14.23	-461	7.86	0.513	0.99	35.6	0.2	7.0	clear	10:31
20.65	22.79	14.18	-462	7.82	0.515	1.12	35.7	0.7	7.0	clear	10:34
20.77	22.93	13.97	-460	7.80	0.511	1.05	34.8	0.2	7.0	clear	10:37

Evacuation Method 500ml/min flow rate reduced to 250ml/min @10:23
 Purge Water Disposition (e.g., drum #) drums & stored onsite pending characterization
 Water Quality (e.g., Sheen, odor) N/A
 Sampling Method bladder pump Sample time 10:37
 Sampling Personnel SF, MJ, TJD Duplicate Time 10:40
 Remarks (e.g., recovery rate)
 Time Completed 11:06

WELL CASING VOLUMES

Gal/ft 1-1/4"=0.077 2"=0.16 3"=0.37 4"=0.65
 1-1/2"=0.10 2-1/2"=0.24 3-1/2"=0.50 6"=1.46

* Convert from linear feet
 correction factor of 0.906

11

APPENDIX E. ANALYTICAL RESULTS

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-1. Analytical results for soil

Analyte	E-01-00-0000-01						
	Sample Name	SB-W-03-0180	SB-W-03-0223	SB-W-03-0318	SB-W-03-0408	SB-W-03-0505	SB-W-03-0645
	Sample Type	N	N	N	N	N	N
Depth Interval	16-16.5 ft	22.5-33 ft	31.5-32 ft	48-49.5 ft	56.5-58 ft	64.5-67 ft	73-73.5 ft
Sample Date	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012	1/27/2012
VOCS (µg/g dry)							
1,1,1,2-Tetrachloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1,1-Trichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1,2,2-Tetrachloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1,2-Trichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1,2-Trihaloethane residue	1.0 U	1.2 U	430 U	14 U	91 U	1.8 U	3.4 U
1,1-Dichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichloroethylene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichloropropane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichlorotetraene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichloroethene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,1-Dichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,2,3-Tetrahaloethane	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
1,2,3-Trihaloepoxide	1.0 U	1.2 U	495 U	14 U	93 U	1.6 U	3.4 U
1,2,4-Trihaloethanesone	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
1,2,4-Trihaloethanesone	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,2-Dimethylbenzene	1.0 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
1,2-Dibromoethane (EDB)	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,2-Dichloroethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,2-Dichloropropane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,2,3-Trihaloepoxide	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
1,3-Dichloropropene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
2,2-Dimethylpropane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
2-Chlorostyryl vinyl ether	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
2-Chloropropane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
2-Furanone	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
4-Chlorobutane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Acetone	13	7.4	1,000 U	10	230 U	40	18
Acetoin	4.8 U	4.3 U	10,000 U	25 U	2,300 U	41 U	38 U
Acrylonitrile	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
Benzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Bromodibromomethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Bromodichloromethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Bromoethane	1.0 U	1.7 U	495 U	14 U	93 U	1.6 U	3.4 U
Bromoform	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Bromomethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Carbon disulfide	13	0.90 U	210 U	2.8	55 U	1.6	8.4
Carbon tetrachloride	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Chlorobenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Chloroform	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Chloromethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Chloroformate	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
cis-1,2-Dimethylcyclohexene	0.60 J	2.1	480	45	139	0.26 U	29
cis-1,5-Dichloropropene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
p-Cymene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Dibromoethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Dibromomethane	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Dichloroethane	2.7 J	3.2 J	415 U	2.5 J	91 U	9.3 J	2.0 J
Ethylenecarbonate	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Hexachlorobutadiene	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
Isopropylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Isopropylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Methyl ethyl ketone	4.8 U	4.4	1,000 U	1.9 J	230 U	4.1	2.6 J
Methyl isobutyl ketone	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
n-Butylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
n-Propylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Naphthalene	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
o-Butylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
o-Xylene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
o-Butylbenzene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Tetrahydroethene	1.0 U	36 J	16,000 J	380 J	1,980 J	0.30 U	100 J
Toluene	0.80 J	6.70 J	210 U	8.60 J	45 U	0.20 U	0.60 J
trans-1,2-Dichloroethene	1.0 U	0.90 U	210 U	9.50 J	45 U	0.20 U	0.70 U
trans-1,3-Dichloropropene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
trans-1,4-Dichloro-2-butene	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
Triketones	1.0 U	1.8	590	22	970	0.30 U	8.1
Trichloroethanesone	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Vinylnitroso	4.8 U	4.3 U	1,000 U	3.5 U	230 U	4.1 U	3.8 U
Vinyl chloride	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
o-Xylene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
m-Xylene	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U
Total xylynes	1.0 U	0.90 U	210 U	6.70 U	45 U	0.20 U	0.70 U

Abbreviations:

dw - dry weight
 FD - field duplicate
 N - internal field sample
Data Qualifiers:
 J - estimated concentration
 U - not detected at given concentration

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-1. Analytical results for soil

Analyte	Sample Date	Site 06-06-02								
		SB-W-06-0600	SB-W-06-0100	SB-W-06-0700	SB-W-06-0300	SB-W-06-0400	SB-W-06-0500	SB-W-06-0350	SB-W-06-0710	SB-W-06-0750
		N	N	N	N	N	N	N	N	N
Depth Interval		8.5-9 ft.	18.5-19 ft.	18.5-19 ft.	38.5-39 ft.	48.5-49 ft.	48.5-49 ft.	58.5-59 ft.	71.2-73 ft.	79.7-8 ft.
VOCs (µg/g dry)										
1,1,1,2-Tetrachloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1,1-Trichloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1,2,2-Tetrachloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1,2-Trichloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1,2-Trihaloethane residue	2.7 U	1.7 U	380 U	92 U	72 U	18 U	86 U	1.7 U	1.7 U	0.90 U
1,1-Dichloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1-Dichloroethene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1-Dichloropropane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,1-Dichlorotetraene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,2-Dichloroethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,2-Dichloropropane	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
1,2,2-Trichloropropane	2.7 U	1.7 U	930 U	93 U	72 U	16 U	86 U	1.7 U	1.7 U	
1,2,4-Tribromoethene	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
1,2,4-Trimethylbenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,2-Dimethoxyethane	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
1,2-Diphenylethane (EDB)	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,2-Dichloroethene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,2-Dichloropropane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,3,5-Trioxo-4-phenol	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
1,3-Dichloropropene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
2,2-Dimethylpropane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
2-Chloroethyl vinyl ether	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
2-Chloropropane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
2-Eugenol	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
4-Chlorobutane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	0.86 U
Aacetate	34	38	1,390 U	190 U	190	9.4	210 U	14	9.3	
Arochlor	0.7 U	4.3 U	13,620 U	2300 U	1,620 U	45 U	210 U	42 U	43 U	
Arylbenzene	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
Benzene	0.9 U	6.20 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Bromobenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Bromodichloromethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Bromoethane	2.7 U	1.7 U	930 U	93 U	72 U	16 U	86 U	1.7 U	1.7 U	
Bromoform	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Bromoethylene	1.3 U	0.90 U	270 U	25 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Cathinone	18	23	270 U	46 U	36 U	0.20 U	43 U	8.2	9.9 U	
Castor oil extractives	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Chlorobenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Chloroform	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Chloromethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
cis-1,2-Dichloroethene	1.3 U	0.90 U	400	520	190	0.85	43 U	0.86 U	0.86 U	
cis-1,5-Dichloropropene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
p-Cymene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Dibromoethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Dibromomethane	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Dichloroethane	2.7 U	2.4 U	930 U	92 U	72 U	1.9 J	86 U	1.7 U	1.7 U	
Ethylenecarbonate	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Hexachlorobutadiene	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
Isopropylbenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Isopropylbenzoate	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Naphthalene	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
an-Buylbenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
tert-Buylbenzene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Tetrahydroethene	1.3 U	0.90 U	18,600	140	5,260	43	530	0.86	2.3	
Toluene	1.3 U	6.60 J	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
trans-1,2-Dichloroethene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
trans-1,3-Dichloropropene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
trans-1,4-Dichloro-2-butene	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
Triketones	8.1	0.90 U	410	57	260	0.86 J	37 J	0.86 U	0.86 U	
Trichloroethylene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Vinylnitrate	0.7 U	4.3 U	1,390 U	230 U	186 U	45 U	210 U	4.2 U	4.3 U	
Weg-chloride	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
o-Xylene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
m-Xylene	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	
Total xylynes	1.3 U	0.90 U	270 U	46 U	36 U	0.20 U	43 U	0.86 U	0.86 U	

Abbreviations:

dw - dry weight
 FD - field duplicate
 N - internal field sample
Data Qualifiers:
 J - estimated concentration
 U - not detected at given concentration

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-1. Analytical results for soil

Analyte	Sample Date	E-07-00-0000-03					
		SB-W-07-00339	SB-W-07-00273	SB-W-07-07535	SB-W-07-04338	SB-W-07-05330	SB-W-07-06336
		N	N	N	N	N	N
Depth Interval		13.2-14.8'	22.5-26.8'	23.534 ft	41-43.8 ft	33-35.5 ft	63-63.2 ft
		1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012	1/26/2012
VOCS (ppb/dw)							
1,1,1,2-Tetrachloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,1,1-Trichloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,1,2,2-Tetrachloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,1,2-Trichloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,1,2,Trichloroethene	1.8 U	1.8 U	1.8 U	1.6 U	1.8 U	2.6 U	1.8 U
1,1-Dichloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,1-Dichloroethylene	0.90 U	0.90 U	0.46 J	3.4	7.3	1.0 U	0.80 U
1,1-Dichloropropane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,2-Dichloroethene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,3-Dichloroethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,4-Dichloroethene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,2,3-Tetrachloropropene	4.5 U	4.8 U	2.8 U	4.1 U	3.9 U	5.5 U	3.8 U
1,2,3-Trichloropropene	1.0 U	1.8 U	1.5 U	1.6 U	1.8 U	2.6 U	1.8 U
1,2,4-Tetrachlorobenzene	4.5 U	4.8 U	7.8 U	4.1 U	7.9 U	5.0 U	3.9 U
1,2,4-Tri(methyl)cyclohexene	0.90 J	0.90 J	8.46 J	0.90 U	0.95 U	1.0 U	0.80 U
1,2-Dimethylcyclopropane	4.5 U	4.8 U	7.8 U	4.1 U	7.9 U	5.5 U	3.8 U
1,2-Dibromoethane (EDB)	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,2-Dichloropropane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,2-Dichloropropane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,3,5-Trioxo-5-hexene	0.79 J	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
1,3-Dichloropropene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
2,2-Dichloropropane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
2-Chloroethyl vinyl ether	4.5 U	4.8 U	3.6 U	4.1 U	3.9 U	5.0 U	3.8 U
2-Chloropropane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
2-Hexanone	4.5 U	4.8 U	3.8 U	4.1 U	3.9 U	5.0 U	3.8 U
4-Chlorocetophenone	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Aacetate	12	16	7.4	7.3	9.2	8.5	8.7
Aldrin	4.5 U	4.8 U	3.9 U	4.1 U	3.9 U	5.0 U	3.9 U
Arylbenzidine	4.5 U	4.8 U	3.5 U	4.1 U	3.9 U	5.5 U	3.9 U
Benzene	0.79 J	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Benzenebenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Benzodiphenylchloride	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Benzofuran	1.8 U	1.8 U	1.5 U	1.6 U	1.8 U	2.6 U	1.8 U
Bis(2-Butylnaphthalene)	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Bromobenzene	1.8 U	1.8 U	1.5 U	1.6 U	1.8 U	2.6 U	1.8 U
Bromoform	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Bromonaphthalene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Cation, Lead(II)	0.89 J	4.6	8.76 J	1.7	1.9	1.0 U	0.70 J
Carbon tetrachloride	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Chlorobenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Chloroform	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Chloromethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
cis-1,2-Dimethylcyclohexene	0.80 J	30	51	91	859	1.0 U	0.80 U
cis-1,5-Dichloropropene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
p-Cymene	0.90 U	1.6	5.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Dibromoethanebenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Dibromomethane	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Dichloroethane	3.2 J	4.3 J	3.6 J	3.6 J	2.7 J	2.5 J	2.4 J
Ethylenecarbonate	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Hexachlorobutadiene	4.5 U	4.8 U	5.5 U	4.1 U	3.9 U	5.0 U	3.9 U
Isopropylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Isopropylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Methyl ethyl ketone	4.5 U	4.8 U	3.2 U	4.1 U	3.9 U	5.5 U	3.9 U
Methyl isobutyl ketone	4.5 U	4.8 U	3.8 U	4.1 U	3.9 U	5.5 U	3.9 U
n-Butylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
n-Propylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Naphthalene	4.5 U	4.8 U	3.5 U	4.1 U	3.9 U	5.0 U	3.9 U
o-Butylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
o-Tolylbenzene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Tetrahydroethene	3.8	129	18,600 J	48,600 J	18,600 J	12.4	23 J
Toluene	2.4	13	1.2	6.89	1.2	9.70 J	6.49 J
trans-1,2-Dichloroethene	0.90 U	1.3	0.90 U	0.90	0.90	1.0 U	0.80 U
trans-1,3-Dichloropropene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
trans-1,4-Dichloro-2-butene	4.5 U	4.8 U	3.8 U	4.1 U	3.9 U	5.0 U	3.9 U
Tetrachloroethene	0.90 U	5.3	56	760	1,169	1.0 U	0.80 U
Tetrachloroethylene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Vinyl acetate	4.5 U	4.8 U	3.1 U	4.1 U	3.8 U	5.0 U	3.9 U
Vinyl chloride	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
o-Xylene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
m-Xylene	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	1.0 U	0.80 U
Total xylenes	0.89 J	0.90 U	0.90 J	0.90 U	0.90 U	1.0 U	0.80 U

Abbreviations:

dw - dry weight
FD - field duplicate
N - internal field sample
Data Qualifiers
J - estimated concentration
U - not detected at given concentration

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-1. Analytical results for soil

Analyte	Sample Date	EPA/19900000-02						
		SB-W-08-02000	SB-W-08-01100	SB-W-08-02000	SB-W-08-02000	SB-W-08-04000	SB-W-08-04000	SB-W-08-07000
		N	N	N	N	N	N	N
Depth Interval		18.5-19 ft.	26.5-27 ft.	38.50-39 ft.	48.45-50 ft.	58.55-59 ft.	71.71-72 ft.	76.76-78 ft.
VOCs (ppb/dw)								
1,1,1,2-Tetrachloroethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,1,1-Trichloroethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,1,2,2-Tetrachloroethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,1,2-Trichloroethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,1,2,Trichloroethene	520 U	1.2 U	1.7 U	1.7 U	1.7 U	280 U	400 U	1.9 U
1,1-Dichloroethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,1-Dichloroethene	270 U	0.79 J	0.80 J	0.80 J	0.80 J	130 U	200 U	0.80 J
1,1-Dichloropropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2-Dichloroethene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,3-Dichloroethene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,4-Dichloroethene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2,3-Trichloropropane	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
1,2,3-Trichloropropene	520 U	1.7 U	1.7 U	1.7 U	1.7 U	250 U	400 U	1.9 U
1,2,4-Trichlorobutene	1,700 U	4.3 U	4.3 U	4.2 U	4.3 U	860 U	990 U	4.7 U
1,2,4-Triisopropylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2-Dimethylbenzene	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
1,2-Dimethylcyclopropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2-Diphenylethane (DDE)	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2-Dichloropropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,2-Dimethylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,3-Dimethylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
1,3-Dimethylcyclopropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
2,2-Dimethylpropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
2-Chloroethyl vinyl ether	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
2-Chloropropane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
2-Eicosane	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
4-Chlorobutane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Aacetate	2,100 J	53 J	52 J	53 J	53 J	18 J	320 J	990 U
Aldrin	15,000 U	43 U	43 U	42 U	43 U	6,400 U	9,800 U	47 U
Aldrinol	1,700 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
Benzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Bromodibromoethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Bromodichloromethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Bromoethane	520 U	1.7 U	1.7 U	1.7 U	1.7 U	250 U	400 U	1.9 U
Bromoform	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Bromonaphthalene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Cathene (dibutyl)	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Carbon tetrachloride	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Chlorobenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Chloroform	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Chloromethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Chloroformate	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Chlorotoluene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
cis-1,2-Dimethylcyclohexene	7,300	120	43	12	376 J	130 U	200 U	0.90 U
cis-1,5-Dichloropropene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
p-Cymene	11,000	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Dibromodichloromethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Dibromomethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Dibromoethane	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Dichloroethane	520 U	3.3 J	3.3 J	3.3 J	53 J	250 U	400 U	1.9 J
Ethylenecarbonate	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Hexachlorobutadiene	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
Isopropylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Isopropylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Methyl ethyl ketone	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
Methyl isobutyl ketone	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
n-Butylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
n-Propylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Naphthalene	1,700 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
sec-Butylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Syrene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
tert-Butylbenzene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Tetrachloroethene	9,500	380	370	480	21	10,000	9,400	17
Toluene	270 U	0.60 J	0.60 J	0.60 J	0.60 J	130 U	200 U	0.90 U
trans-1,2-Dichloroethylene	220 U	3.8	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
trans-1,3-Dichloropropene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
trans-1,4-Dichloro-2-butene	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
Toluolperoxide	2,300	116	82	18	676 J	81 J	320	0.90 U
Trichloroethylene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Vinyl acetate	1,300 U	4.3 U	4.3 U	4.2 U	4.3 U	640 U	900 U	4.7 U
Vinyl chloride	710	126	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
o-Xylene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
m-Xylene	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U
Total xylynes	270 U	0.90 U	0.90 U	0.90 U	0.90 U	130 U	200 U	0.90 U

Abbreviations:

- dw - dry weight
- FD - field duplicate
- N - internal field sample
- Data Qualifiers
- J - estimated concentration
- U - not detected at given concentration

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-2. Analytical results for stratified groundwater

Analyte	P-02-W-001-02			P-02-W-001-04		
	Sample Name	SB-W-06-0200	SB-W-06-0400	SB-W-06-0600	SB-W-06-0201	SB-W-06-0401
	Depth Interval	10-20 ft	20-40 ft	30-60 ft	10-20 ft	20-40 ft
Sample Date	1/30/2012	1/30/2012	1/30/2012	1/26/2012	1/26/2012	1/26/2012
VOCs (µg/L)						
1,1,1,2-Tetrafluoroethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1,1-Trifluoroethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1,2,2-Tetrafluoroethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1,2,3-Tetrafluoroethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1,2,3-Tetrafluoropropene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.20 U	20 U	16 J	0.10 J	0.20	2.8
1,1-Dichloropropane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,2-Dichlorobenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,3-Dichlorobenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,4-Dichlorobenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,2,3-Trichlorobenzene	0.20 U	20 U	50 U	0.20 U	0.20 U	0.20 U
1,2,3-Trichloropropane	0.20 U	20 U	50 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.20 U	20 U	50 U	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	0.20 U	20 U	20 U	0.10 J	0.20 U	0.50
1,2-Bromo-3-difluoropropene	0.20 U	50 U	50 U	0.20 U	0.20 U	0.20 U
1,2-Dibromoethene (EDB)	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
1,3,5-Triisopropylbenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	3.39
1,3-Dichloropropene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
2,2-Dichloropropane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
2-Chloroethyl vinyl ether	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
2-Hexanone	5.0 U	500 U	500 U	5.0 U	5.0 U	2.8 J
4-Chlorotoluene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Acetone	5.0 U	500 U	500 U	3.6 J	3.6 J	4.1
Amylbenzene	5.0 U	500 U	500 U	5.0 U	5.0 U	5.0 U
Acrylonitrile	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
Benzene	0.20 U	20 U	20 U	0.70	0.20	0.40
Bromoethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Bromodiphenylmethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Bromoethoxyethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Bromofluoromethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Bromotoluene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Bromoethane	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	0.20 U	20 U	20 U	0.10 J	0.20 U	0.30 U
Chloroformate diethyl ester	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Chloroformate	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Chloroform	0.20 U	20 U	20 U	0.20 U	0.10 J	0.20 U
Chloroethylene	0.20 U	90 U	50 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethane	8.0	1,700	1,800	37	63	279
cis-1,2-Dichloropropene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
p-Cymene	0.20 U	20 U	20 U	0.20	0.20	0.20 U
Bis(2-methoxyethoxy)ethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Dibromomethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Diethylchloromethane	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Diisobutylketone	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
Ethyldiisobutylketone	0.20 U	20 U	20 U	0.20 U	0.20 U	0.10 J
Hexadecabromocyclododecane	0.50 U	50 U	50 U	0.50 U	0.50 U	0.50 U
Isomeric toluenes	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
Isooctylbenzene	0.20 U	20 U	20 U	0.20	0.20 U	0.20 U
Methyl ethyl ketone	5.0 U	500 U	500 U	5.0 U	5.0 U	1.2 J
Methyl isobutyl ketone	5.0 U	500 U	500 U	5.0 U	5.0 U	5.0 U
n-Butylbenzene	0.20 U	20 U	20 U	8.20	0.10 J	0.20 U
n-Propylbenzene	0.20 U	20 U	20 U	0.30	0.10 J	0.20 J
Naphthalene	0.20 U	20 U	50 U	0.20 U	0.20 U	0.20 U
sec-Butylbenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Styrene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
tert-Butylbenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Tetrahydroethene	1.0	24,000	7,200	19	2,000	12,000
Toluene	0.20 U	20 U	20 U	0.20	0.20 J	0.20
trans-1,2-Dichloroethene	0.30	13 J	20 U	0.40	0.40	0.20
trans-1,3-Dichloropropene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
trans-1,4-Dichloro-2-butene	1.0 U	100 U	100 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	1.4	940	1,300	2.4	34	238
Tri-N-nitrobenzene	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Vanillic acid	0.20 U	20 U	20 U	0.20 U	0.20 U	0.20 U
Vinyl chloride	0.20 U	20 U	20 U	37	12	3.4
o-Xylene	0.20 U	20 U	20 U	0.20 J	0.20 J	0.20 J
m,p-Xylylene	0.40 U	40 U	40 U	8.40 J	0.10 J	0.20
Total xylynes	0.45 U	40 U	40 U	0.30 U	0.10 J	0.60 J

Date Qualifiers

J = estimated concentration

U = not detected at given concentration

Subsurface Soil and Groundwater Investigation
American Linen Supply Co. Inc. Site

Table E-3. Analytical results for groundwater monitoring wells

Location	W40W-01	W40W-02	W40W-03	W40W-04
Sample Name	GW40-01-01	GW40-02-01	GW40-03-01	GW40-04-01 GW40-04-02
Sample Type	N	N	N	N (P)
Depth Interval	70-89 ft	70-86 ft	76-88 ft	68-77 ft
Analyte	Sample Date	3/2/2012	3/2/2012	3/2/2012
VOCs (µg/L)				
1,1,1,2-Tetrachloroethane	0.20 U	20 U	20 U	20 U
1,1,1-Trichloroethane	0.20 U	20 U	20 U	20 U
1,1,2,2-Tetrachloroethane	0.20 U	20 U	20 U	20 U
1,1,2-Trichloroethane	0.20 U	20 U	20 U	20 U
1,1,2-Trihaloethane residue	0.20 U	20 U	20 U	20 U
1,1-Dichloroethane	0.20 U	20 U	20 U	20 U
1,1-Dichloroethylene	0.20 U	17 J	20 U	20 U
1,1-Dichloropropane	0.20 U	20 U	20 U	20 U
1,2-Dichloroethene	0.20 U	20 U	20 U	20 U
1,3-Dichloropropane	0.20 U	20 U	20 U	20 U
1,4-Dichlorobenzene	0.20 U	20 U	20 U	20 U
1,2,3-Trichlorobenzene	0.50 U	50 U	50 U	50 U
1,2,3-Trichloropropene	0.50 U	50 U	50 U	50 U
1,2,4-Trichlorobenzene	0.50 U	50 U	50 U	50 U
1,2,4-Trihaloethene residue	0.20 U	20 U	20 U	20 U
1,2-Dimethylbenzene	0.50 U	50 U	50 U	50 U
1,2-Dimethylpropane	0.20 U	20 U	20 U	20 U
1,2-Dibromoethane (EDB)	0.20 U	20 U	20 U	20 U
1,2-Dichloropropane	0.20 U	20 U	20 U	20 U
1,2-Dichloropropene	0.20 U	20 U	20 U	20 U
1,3,5-Trioxo-4-hydroxyhex-2-ene	0.20 U	20 U	20 U	20 U
1,3-Dichloropropene	0.20 U	20 U	20 U	20 U
2,2-Dichloropropane	0.20 U	20 U	20 U	20 U
2-Chloroethyl vinyl ether	1.0 J	100 U	100 U	100 U
2-Chloropropane	0.20 U	20 U	20 U	20 U
2-Hexanone	5.0 U	500 U	500 U	500 U
4-Chlorotoluene	0.20 U	20 U	20 U	20 U
Aacetate	5.0 U	270 J	290 J	320 J
Aldrin	5.0 U	500 U	500 U	500 U
Arylbenzene	1.0 U	100 U	100 U	100 U
Benzene	0.20 U	20 U	20 U	20 U
Bromobenzene	0.20 U	20 U	20 U	20 U
Bromophenylbenzene	0.20 U	20 U	20 U	20 U
Bromodichloromethane	0.20 U	20 U	20 U	20 U
Bromoethane	0.20 U	20 U	20 U	20 U
Bromoform	0.20 U	20 U	20 U	20 U
Bromomethane	0.20 U	20 U	20 U	20 U
Cathen (dibutyl)	0.10 J	20 U	20 U	20 U
Castor oil extractables	0.20 U	20 U	20 U	20 U
Chlorobenzene	0.20 U	20 U	20 U	20 U
Chloroform	0.20 U	20 U	20 U	20 U
Chloromethane	0.20 U	20 U	20 U	20 U
cis-1,2-Dimethylcyclohexene	11	2,000	160	58
cis-1,5-Dichloropropene	0.20 U	20 U	20 U	20 U
p-Cymene	0.20 U	20 U	20 U	20 U
Dibromoethane residue	0.20 U	20 U	20 U	20 U
Dibromomethane	0.20 U	20 U	20 U	20 U
Dichloroethane	1.0 U	100 U	100 U	100 U
Ethylenetetra	0.20 U	20 U	20 U	20 U
Hexachlorobutadiene	0.20 U	20 U	20 U	20 U
Isopropenylbenzene	1.0 U	100 U	100 U	100 U
Isopropylbenzene	0.20 U	20 U	20 U	20 U
Methyl ethyl ketone	5.0 U	500 U	500 U	500 U
Methyl isobutyl ketone	5.0 U	500 U	500 U	500 U
n-Butylbenzene	0.20 U	20 U	20 U	20 U
n-Propylbenzene	0.20 U	20 U	20 U	20 U
Naphthalene	0.20 U	20 U	20 U	20 U
o-n-Butylbenzene	0.20 U	20 U	20 U	20 U
o-n-Butylbenzene	0.20 U	20 U	20 U	20 U
o-n-Butylbenzene	0.20 U	20 U	20 U	20 U
Tetrachloroethene	46	6,900	6,100 J	5,300
Toluene	0.10 J	20 U	20 U	20 U
trans-1,2-Dichloroethene	0.20 U	20 U	20 U	20 U
trans-1,3-Dichloropropene	0.20 U	20 U	20 U	20 U
trans-1,4-Dichloro-2-butene	1.0 U	100 U	100 U	100 U
Triketone	3.8	1,700	220	170
Trichloroethene residue	0.20 U	20 U	20 U	20 U
Vinyl acetate	0.20 U	20 U	20 U	20 U
Vinyl chloride	0.50	120	20 U	20 U
n-Xylene	0.20 U	20 U	20 U	20 U
m,p-Xylene	0.40 U	40 U	40 U	40 U
Total xylenes	0.40 U	40 U	40 U	40 U

Abbreviations:

FD - field duplicate.

N - normal field sample.

WG - ground water.

Data Qualifiers:

J - estimated concentration

U - not detected at given concentration

APPENDIX F. LABORATORY DATA REPORTS



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 2, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: ALSCO Dexter
ARI Job No.: UF79

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted seven soil samples and a trip blank on January 26, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 2.5°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The both continuing calibrations fell outside the 20% control limit low for Bromomethane. All detected results for this compound have been flagged with a "Q" qualifier. No further corrective action was taken.

The LCS percent recovery of Methyl Iodide was outside the control limits high for LCS-013012. All other percent recoveries were within control limits. No corrective action was taken.

Methylene Chloride was present in MB-013012 at a level that was greater than ½ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier.

Bromomethane, Methylene Chloride, Tetrachloroethene, 1,2,4-Trichlorobenzene, and Naphthalene were present in method blank MB-013112 at levels that were greater than ½ the reporting limits. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,
ANALYTICAL RESOURCES, INC.


Cheronne Oreiro

Project Manager

-For-

Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UF79



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward
COC No(s). 2875 NA
Assigned ARI Job No. CLF79

Project Name: AISCO DEXTER
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase:

- Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
- Were custody papers included with the cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.) YES NO
- Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry). 2.5
- If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9CF411C19

Cooler Accepted by: AV Date: 1/26/12 Time: 1706

Complete custody forms and attach all shipping documents

Log-In Phase:

- Was a temperature blank included in the cooler? YES NO
- What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____ NA YES NO
- Was sufficient ice used (if appropriate)? YES NO
- Were all bottles sealed in individual plastic bags? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Were all bottle labels complete and legible? YES NO
- Did the number of containers listed on COC match with the number of containers received? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were all bottles used correct for the requested analyses? YES NO
- Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) .. NA YES NO
- Were all VOC vials free of air bubbles? NA YES NO
- Was sufficient amount of sample sent in each bottle? YES NO
- Date VOC Trip Blank was made at ARI. 1-25-12

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by TS Date: 1-27-12 Time: 1049

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:	Date:	Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	Small → "sm" Peabubbles → "pb" Large → "lg" Headspace → "hs"
		• • •	• • •	• • •	

Sample ID Cross Reference Report

ARI Job No: UF79

Client: Windward Environmental, LLC

Project Event: N/A

Project Name: Alsco Dexter

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SB-W-07-0135	UF79A	12-1246	Soil	01/26/12 11:00	01/27/12 17:06
2. SB-W-07-0275	UF79B	12-1247	Soil	01/26/12 11:05	01/27/12 17:06
3. SB-W-07-0335	UF79C	12-1248	Soil	01/26/12 11:30	01/27/12 17:06
4. SB-W-07-0430	UF79D	12-1249	Soil	01/26/12 12:15	01/27/12 17:06
5. SB-W-07-0530	UF79E	12-1250	Soil	01/26/12 13:30	01/27/12 17:06
6. SB-W-07-0630	UF79F	12-1251	Soil	01/26/12 13:30	01/27/12 17:06
7. SB-W-07-0780	UF79H	12-1252	Soil	01/26/12 13:40	01/27/12 17:06
8. Trip Blanks	UF79I	12-1253	Water	01/26/12	01/27/12 17:06

Printed 01/27/12

UF 79 : 000004



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0135

SAMPLE

Lab Sample ID: UF79A

LIMS ID: 12-1246

Matrix: Soil

Data Release Authorized:

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/30/12 23:07

Sample Amount: 5.60 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 13.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.8	3.2	B
67-64-1	Acetone	4.5	12	
75-15-0	Carbon Disulfide	0.9	0.8	J
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	0.8	J
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.5	< 4.5	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.5	< 4.5	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	0.5	J
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	0.7	J
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.5	< 4.5	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.5	< 4.5	U
591-78-6	2-Hexanone	4.5	< 4.5	U
127-18-4	Tetrachloroethene	0.9	3.8	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	2.4	
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.8	< 1.8	U
179601-23-1	m,p-Xylene	0.9	0.8	J
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	45	< 45	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

**Sample ID: SB-W-07-0135
SAMPLE**

 Lab Sample ID: UF79A
 LIMS ID: 12-1246
 Matrix: Soil
 Date Analyzed: 01/30/12 23:07

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.8	< 1.8	U
107-13-1	Acrylonitrile	4.5	< 4.5	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.5	< 4.5	U
96-18-4	1,2,3-Trichloropropane	1.8	< 1.8	U
110-57-6	trans-1,4-Dichloro-2-butene	4.5	< 4.5	U
108-67-8	1,3,5-Trimethylbenzene	0.9	0.7	J
95-63-6	1,2,4-Trimethylbenzene	0.9	0.8	J
87-68-3	Hexachlorobutadiene	4.5	< 4.5	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.5	< 4.5	U
91-20-3	Naphthalene	4.5	< 4.5	U
87-61-6	1,2,3-Trichlorobenzene	4.5	< 4.5	U

Reported in pg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	102%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0275

SAMPLE

Lab Sample ID: UF79B

LIMS ID: 12-1247

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/30/12 23:29

Sample Amount: 5.46 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 16.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.8	4.1	B
67-64-1	Acetone	4.6	16	
75-15-0	Carbon Disulfide	0.9	4.0	
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	1.3	
156-59-2	cis-1,2-Dichloroethene	0.9	83	
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.6	< 4.6	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.6	< 4.6	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	5.3	
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	0.5	J
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.6	< 4.6	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.6	< 4.6	U
591-78-6	2-Hexanone	4.6	< 4.6	U
127-18-4	Tetrachloroethene	0.9	120	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	1.3	
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.8	< 1.8	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	46	< 46	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-07-0275
SAMPLE

Lab Sample ID: UF79B

LIMS ID: 12-1247

Matrix: Soil

Date Analyzed: 01/30/12 23:29

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.8	< 1.8	U
107-13-1	Acrylonitrile	4.6	< 4.6	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	< 4.6	U
96-18-4	1,2,3-Trichloropropane	1.8	< 1.8	U
110-57-6	trans-1,4-Dichloro-2-butene	4.6	< 4.6	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	0.5	J
87-68-3	Hexachlorobutadiene	4.6	< 4.6	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	1.6	
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.6	< 4.6	U
91-20-3	Naphthalene	4.6	< 4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	< 4.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	102%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0335

SAMPLE

Lab Sample ID: UF79C

LIMS ID: 12-1248

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/30/12 23:50

Sample Amount: 6.56 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 10.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.5	3.6	B
67-64-1	Acetone	3.8	7.1	
75-15-0	Carbon Disulfide	0.8	0.7	J
75-35-4	1,1-Dichloroethene	0.8	0.4	J
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	11	
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	3.8	< 3.8	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	3.8	< 3.8	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	50	
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	3.8	< 3.8	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.8	< 3.8	U
591-78-6	2-Hexanone	3.8	< 3.8	U
127-18-4	Tetrachloroethene	0.8	680	ES
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	1.2	
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.5	< 1.5	U
179601-23-1	m,p-Xylene	0.8	0.4	J
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	38	< 38	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-07-0335
SAMPLE

Lab Sample ID: UF79C
LIMS ID: 12-1248
Matrix: Soil
Date Analyzed: 01/30/12 23:50

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.5	< 1.5	U
107-13-1	Acrylonitrile	3.8	< 3.8	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	3.8	< 3.8	U
96-18-4	1,2,3-Trichloropropane	1.5	< 1.5	U
110-57-6	trans-1,4-Dichloro-2-butene	3.8	< 3.8	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	0.4	J
87-68-3	Hexachlorobutadiene	3.8	< 3.8	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	3.8	< 3.8	U
91-20-3	Naphthalene	3.8	< 3.8	U
87-61-6	1,2,3-Trichlorobenzene	3.8	< 3.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	102%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0335

REANALYSIS

Lab Sample ID: UF79C

LIMS ID: 12-1248

Matrix: Soil

Data Release Authorized: *JH*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 11:44

Sample Amount: 9.75 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 10.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	510	< 510	U
74-83-9	Bromomethane	510	< 510	U
75-01-4	Vinyl Chloride	510	< 510	U
75-00-3	Chloroethane	510	< 510	U
75-09-2	Methylene Chloride	1,000	< 1,000	U
67-64-1	Acetone	2,600	< 2,600	U
75-15-0	Carbon Disulfide	510	< 510	U
75-35-4	1,1-Dichloroethene	510	< 510	U
75-34-3	1,1-Dichloroethane	510	< 510	U
156-60-5	trans-1,2-Dichloroethene	510	< 510	U
156-59-2	cis-1,2-Dichloroethene	510	< 510	U
67-66-3	Chloroform	510	< 510	U
107-06-2	1,2-Dichloroethane	510	< 510	U
78-93-3	2-Butanone	2,600	< 2,600	U
71-55-6	1,1,1-Trichloroethane	510	< 510	U
56-23-5	Carbon Tetrachloride	510	< 510	U
108-05-4	Vinyl Acetate	2,600	< 2,600	U
75-27-4	Bromodichloromethane	510	< 510	U
78-87-5	1,2-Dichloropropane	510	< 510	U
10061-01-5	cis-1,3-Dichloropropene	510	< 510	U
79-01-6	Trichloroethene	510	< 510	U
124-48-1	Dibromochloromethane	510	< 510	U
79-00-5	1,1,2-Trichloroethane	510	< 510	U
71-43-2	Benzene	510	< 510	U
10061-02-6	trans-1,3-Dichloropropene	510	< 510	U
110-75-8	2-Chloroethylvinylether	2,600	< 2,600	U
75-25-2	Bromoform	510	< 510	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2,600	< 2,600	U
591-78-6	2-Hexanone	2,600	< 2,600	U
127-18-4	Tetrachloroethene	510	18,000	B
79-34-5	1,1,2,2-Tetrachloroethane	510	< 510	U
108-88-3	Toluene	510	< 510	U
108-90-7	Chlorobenzene	510	< 510	U
100-41-4	Ethylbenzene	510	< 510	U
100-42-5	Styrene	510	< 510	U
75-69-4	Trichlorofluoromethane	510	< 510	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluorol	1,000	< 1,000	U
179601-23-1	m,p-Xylene	510	< 510	U
95-47-6	o-Xylene	510	< 510	U
95-50-1	1,2-Dichlorobenzene	510	< 510	U
541-73-1	1,3-Dichlorobenzene	510	< 510	U
106-46-7	1,4-Dichlorobenzene	510	< 510	U
107-02-8	Acrolein	26,000	< 26,000	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: SB-W-07-0335
REANALYSIS

 Lab Sample ID: UF79C
 LIMS ID: 12-1248
 Matrix: Soil
 Date Analyzed: 01/31/12 11:44

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	510	< 510	U
74-96-4	Bromoethane	1,000	< 1,000	U
107-13-1	Acrylonitrile	2,600	< 2,600	U
563-58-6	1,1-Dichloropropene	510	< 510	U
74-95-3	Dibromomethane	510	< 510	U
630-20-6	1,1,1,2-Tetrachloroethane	510	< 510	U
96-12-8	1,2-Dibromo-3-chloropropane	2,600	< 2,600	U
96-18-4	1,2,3-Trichloropropane	1,000	< 1,000	U
110-57-6	trans-1,4-Dichloro-2-butene	2,600	< 2,600	U
108-67-8	1,3,5-Trimethylbenzene	510	< 510	U
95-63-6	1,2,4-Trimethylbenzene	510	< 510	U
87-68-3	Hexachlorobutadiene	2,600	< 2,600	U
106-93-4	Ethylene Dibromide	510	< 510	U
74-97-5	Bromochloromethane	510	< 510	U
594-20-7	2,2-Dichloropropane	510	< 510	U
142-28-9	1,3-Dichloropropane	510	< 510	U
98-82-8	Isopropylbenzene	510	< 510	U
103-65-1	n-Propylbenzene	510	< 510	U
108-86-1	Bromobenzene	510	< 510	U
95-49-8	2-Chlorotoluene	510	< 510	U
106-43-4	4-Chlorotoluene	510	< 510	U
98-06-6	tert-Butylbenzene	510	< 510	U
135-98-8	sec-Butylbenzene	510	< 510	U
99-87-6	4-Isopropyltoluene	510	< 510	U
104-51-8	n-Butylbenzene	510	< 510	U
120-82-1	1,2,4-Trichlorobenzene	2,600	< 2,600	U
91-20-3	Naphthalene	2,600	< 2,600	U
87-61-6	1,2,3-Trichlorobenzene	2,600	< 2,600	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	101%
Bromofluorobenzene	95.2%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

**Sample ID: SB-W-07-0430
SAMPLE**

 Lab Sample ID: UF79D
 LIMS ID: 12-1249
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 02/01/12

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/26/12
 Date Received: 01/27/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 01/31/12 00:11

 Sample Amount: 6.14 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 11.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.6	3.6	B
67-64-1	Acetone	4.1	7.3	
75-15-0	Carbon Disulfide	0.8	1.7	
75-35-4	1,1-Dichloroethene	0.8	3.0	
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	0.9	
156-59-2	cis-1,2-Dichloroethene	0.8	91	
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	4.1	< 4.1	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	4.1	< 4.1	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	320	E
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	4.1	< 4.1	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.1	< 4.1	U
591-78-6	2-Hexanone	4.1	< 4.1	U
127-18-4	Tetrachloroethene	0.8	750	ES
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	0.9	
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.6	< 1.6	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	<i>o</i> -Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	41	< 41	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: SB-W-07-0430
SAMPLE

 Lab Sample ID: UF79D
 LIMS ID: 12-1249
 Matrix: Soil
 Date Analyzed: 01/31/12 00:11

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.6	< 1.6	U
107-13-1	Acrylonitrile	4.1	< 4.1	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.1	< 4.1	U
96-18-4	1,2,3-Trichloropropane	1.6	< 1.6	U
110-57-6	trans-1,4-Dichloro-2-butene	4.1	< 4.1	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	4.1	< 4.1	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	4.1	< 4.1	U
91-20-3	Naphthalene	4.1	< 4.1	U
87-61-6	1,2,3-Trichlorobenzene	4.1	< 4.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	100%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0430

REANALYSIS

Lab Sample ID: UF79D

LIMS ID: 12-1249

Matrix: Soil

Data Release Authorized: *NO*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 12:05

Sample Amount: 8.32 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 11.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	600	< 600	U
74-83-9	Bromomethane	600	< 600	U
75-01-4	Vinyl Chloride	600	< 600	U
75-00-3	Chloroethane	600	< 600	U
75-09-2	Methylene Chloride	1,200	< 1,200	U
67-64-1	Acetone	3,000	< 3,000	U
75-15-0	Carbon Disulfide	600	< 600	U
75-35-4	1,1-Dichloroethene	600	< 600	U
75-34-3	1,1-Dichloroethane	600	< 600	U
156-60-5	trans-1,2-Dichloroethene	600	< 600	U
156-59-2	cis-1,2-Dichloroethene	600	< 600	U
67-66-3	Chloroform	600	< 600	U
107-06-2	1,2-Dichloroethane	600	< 600	U
78-93-3	2-Butanone	3,000	< 3,000	U
71-55-6	1,1,1-Trichloroethane	600	< 600	U
56-23-5	Carbon Tetrachloride	600	< 600	U
108-05-4	Vinyl Acetate	3,000	< 3,000	U
75-27-4	Bromodichloromethane	600	< 600	U
78-87-5	1,2-Dichloropropane	600	< 600	U
10061-01-5	cis-1,3-Dichloropropene	600	< 600	U
79-01-6	Trichloroethene	600	700	
124-48-1	Dibromochloromethane	600	< 600	U
79-00-5	1,1,2-Trichloroethane	600	< 600	U
71-43-2	Benzene	600	< 600	U
10061-02-6	trans-1,3-Dichloropropene	600	< 600	U
110-75-8	2-Chloroethylvinylether	3,000	< 3,000	U
75-25-2	Bromoform	600	< 600	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3,000	< 3,000	U
591-78-6	2-Hexanone	3,000	< 3,000	U
127-18-4	Tetrachloroethene	600	46,000	B
79-34-5	1,1,2,2-Tetrachloroethane	600	< 600	U
108-88-3	Toluene	600	< 600	U
108-90-7	Chlorobenzene	600	< 600	U
100-41-4	Ethybenzene	600	< 600	U
100-42-5	Styrene	600	< 600	U
75-69-4	Trichlorofluoromethane	600	< 600	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluorol	200	< 1,200	U
179601-23-1	m,p-Xylene	600	< 600	U
95-47-6	o-Xylene	600	< 600	U
95-50-1	1,2-Dichlorobenzene	600	< 600	U
541-73-1	1,3-Dichlorobenzene	600	< 600	U
106-46-7	1,4-Dichlorobenzene	600	< 600	U
107-02-8	Acrolein	30,000	< 30,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-07-0430
REANALYSIS

Lab Sample ID: UF79D
LIMS ID: 12-1249
Matrix: Soil
Date Analyzed: 01/31/12 12:05

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	600	< 600	U
74-96-4	Bromoethane	1,200	< 1,200	U
107-13-1	Acrylonitrile	3,000	< 3,000	U
563-58-6	1,1-Dichloropropene	600	< 600	U
74-95-3	Dibromomethane	600	< 600	U
630-20-6	1,1,1,2-Tetrachloroethane	600	< 600	U
96-12-8	1,2-Dibromo-3-chloropropane	3,000	< 3,000	U
96-18-4	1,2,3-Trichloropropane	1,200	< 1,200	U
110-57-6	trans-1,4-Dichloro-2-butene	3,000	< 3,000	U
108-67-8	1,3,5-Trimethylbenzene	600	< 600	U
95-63-6	1,2,4-Trimethylbenzene	600	< 600	U
87-68-3	Hexachlorobutadiene	3,000	< 3,000	U
106-93-4	Ethylene Dibromide	600	< 600	U
74-97-5	Bromochloromethane	600	< 600	U
594-20-7	2,2-Dichloropropane	600	< 600	U
142-28-9	1,3-Dichloropropane	600	< 600	U
98-82-8	Isopropylbenzene	600	< 600	U
103-65-1	n-Propylbenzene	600	< 600	U
108-86-1	Bromobenzene	600	< 600	U
95-49-8	2-Chlorotoluene	600	< 600	U
106-43-4	4-Chlorotoluene	600	< 600	U
98-06-6	tert-Butylbenzene	600	< 600	U
135-98-8	sec-Butylbenzene	600	< 600	U
99-87-6	4-Isopropyltoluene	600	< 600	U
104-51-8	n-Butylbenzene	600	< 600	U
120-82-1	1,2,4-Trichlorobenzene	3,000	< 3,000	U
91-20-3	Naphthalene	3,000	< 3,000	U
87-61-6	1,2,3-Trichlorobenzene	3,000	< 3,000	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.1%
d8-Toluene	100%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0530

SAMPLE

Lab Sample ID: UF79E

LIMS ID: 12-1250

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 00:33

Sample Amount: 6.39 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.6	2.7	B
67-64-1	Acetone	3.9	9.2	
75-15-0	Carbon Disulfide	0.8	1.9	
75-35-4	1,1-Dichloroethene	0.8	7.1	
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	0.9	
156-59-2	cis-1,2-Dichloroethene	0.8	310	E
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	3.9	< 3.9	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	3.9	< 3.9	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	380	E
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	3.9	< 3.9	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.9	< 3.9	U
591-78-6	2-Hexanone	3.9	< 3.9	U
127-18-4	Tetrachloroethene	0.8	620	ES
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	1.2	
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.6	< 1.6	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	39	< 39	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-07-0530

SAMPLE

Lab Sample ID: UF79E

LIMS ID: 12-1250

Matrix: Soil

Date Analyzed: 01/31/12 00:33

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.6	< 1.6	U
107-13-1	Acrylonitrile	3.9	< 3.9	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	3.9	< 3.9	U
96-18-4	1,2,3-Trichloropropane	1.6	< 1.6	U
110-57-6	trans-1,4-Dichloro-2-butene	3.9	< 3.9	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	3.9	< 3.9	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	3.9	< 3.9	U
91-20-3	Naphthalene	3.9	< 3.9	U
87-61-6	1,2,3-Trichlorobenzene	3.9	< 3.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	100%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-07-0530

REANALYSIS

Lab Sample ID: UF79E

LIMS ID: 12-1250

Matrix: Soil

Data Release Authorized:

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 12:26

Sample Amount: 10.6 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	470	< 470	U
74-83-9	Bromomethane	470	< 470	U
75-01-4	Vinyl Chloride	470	< 470	U
75-00-3	Chloroethane	470	< 470	U
75-09-2	Methylene Chloride	940	< 940	U
67-64-1	Acetone	2,400	< 2,400	U
75-15-0	Carbon Disulfide	470	< 470	U
75-35-4	1,1-Dichloroethene	470	< 470	U
75-34-3	1,1-Dichloroethane	470	< 470	U
156-60-5	trans-1,2-Dichloroethene	470	< 470	U
156-59-2	cis-1,2-Dichloroethene	470	630	
67-66-3	Chloroform	470	< 470	U
107-06-2	1,2-Dichloroethane	470	< 470	U
78-93-3	2-Butanone	2,400	< 2,400	U
71-55-6	1,1,1-Trichloroethane	470	< 470	U
56-23-5	Carbon Tetrachloride	470	< 470	U
108-05-4	Vinyl Acetate	2,400	< 2,400	U
75-27-4	Bromodichloromethane	470	< 470	U
78-87-5	1,2-Dichloropropane	470	< 470	U
10061-01-5	cis-1,3-Dichloropropene	470	< 470	U
79-01-6	Trichloroethene	470	1,100	
124-48-1	Dibromochloromethane	470	< 470	U
79-00-5	1,1,2-Trichloroethane	470	< 470	U
71-43-2	Benzene	470	< 470	U
10061-02-6	trans-1,3-Dichloropropene	470	< 470	U
110-75-8	2-Chloroethylvinylether	2,400	< 2,400	U
75-25-2	Bromoform	470	< 470	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2,400	< 2,400	U
591-78-6	2-Hexanone	2,400	< 2,400	U
127-18-4	Tetrachloroethene	470	18,000	B
79-34-5	1,1,2,2-Tetrachloroethane	470	< 470	U
108-88-3	Toluene	470	< 470	U
108-90-7	Chlorobenzene	470	< 470	U
100-41-4	Ethylbenzene	470	< 470	U
100-42-5	Styrene	470	< 470	U
75-69-4	Trichlorofluoromethane	470	< 470	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	940	< 940	U
179601-23-1	m,p-Xylene	470	< 470	U
95-47-6	o-Xylene	470	< 470	U
95-50-1	1,2-Dichlorobenzene	470	< 470	U
541-73-1	1,3-Dichlorobenzene	470	< 470	U
106-46-7	1,4-Dichlorobenzene	470	< 470	U
107-02-8	Acrolein	24,000	< 24,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-07-0530
REANALYSIS

Lab Sample ID: UF79E
LIMS ID: 12-1250
Matrix: Soil
Date Analyzed: 01/31/12 12:26

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	470	< 470	U
74-96-4	Bromoethane	940	< 940	U
107-13-1	Acrylonitrile	2,400	< 2,400	U
563-58-6	1,1-Dichloropropene	470	< 470	U
74-95-3	Dibromomethane	470	< 470	U
630-20-6	1,1,1,2-Tetrachloroethane	470	< 470	U
96-12-8	1,2-Dibromo-3-chloropropane	2,400	< 2,400	U
96-18-4	1,2,3-Trichloropropane	940	< 940	U
110-57-6	trans-1,4-Dichloro-2-butene	2,400	< 2,400	U
108-67-8	1,3,5-Trimethylbenzene	470	< 470	U
95-63-6	1,2,4-Trimethylbenzene	470	< 470	U
87-68-3	Hexachlorobutadiene	2,400	< 2,400	U
106-93-4	Ethylene Dibromide	470	< 470	U
74-97-5	Bromochloromethane	470	< 470	U
594-20-7	2,2-Dichloropropane	470	< 470	U
142-28-9	1,3-Dichloropropane	470	< 470	U
98-82-8	Isopropylbenzene	470	< 470	U
103-65-1	n-Propylbenzene	470	< 470	U
108-86-1	Bromobenzene	470	< 470	U
95-49-8	2-Chlorotoluene	470	< 470	U
106-43-4	4-Chlorotoluene	470	< 470	U
98-06-6	tert-Butylbenzene	470	< 470	U
135-98-8	sec-Butylbenzene	470	< 470	U
99-87-6	4-Isopropyltoluene	470	< 470	U
104-51-8	n-Butylbenzene	470	< 470	U
120-82-1	1,2,4-Trichlorobenzene	2,400	< 2,400	U
91-20-3	Naphthalene	2,400	< 2,400	U
87-61-6	1,2,3-Trichlorobenzene	2,400	< 2,400	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	99.2%
Bromofluorobenzene	92.8%
d4-1,2-Dichlorobenzene	104%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: SB-W-07-0630
SAMPLE

 Lab Sample ID: UF79G
 LIMS ID: 12-1251
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 02/01/12

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/26/12
 Date Received: 01/27/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 01/31/12 11:01

 Sample Amount: 4.99 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 11.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	2.5	B
67-64-1	Acetone	5.0	9.5	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	1.2	B
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	0.7	J
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: SB-W-07-0630
SAMPLE

 Lab Sample ID: UF79G
 LIMS ID: 12-1251
 Matrix: Soil
 Date Analyzed: 01/31/12 11:01

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

 Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	98.8%
Bromofluorobenzene	92.5%
d4-1,2-Dichlorobenzene	107%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-07-0780
SAMPLE

Lab Sample ID: UF79H

LJMS ID: 12-1252

Matrix: Soil

Data Release Authorized: *J*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 11:22

Sample Amount: 6.34 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 8.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.6	2.4	B
67-64-1	Acetone	3.9	8.7	
75-15-0	Carbon Disulfide	0.8	0.7	J
75-35-4	1,1-Dichloroethene	0.8	< 0.8	U
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	< 0.8	U
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	3.9	< 3.9	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	3.9	< 3.9	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	< 0.8	U
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	3.9	< 3.9	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.9	< 3.9	U
591-78-6	2-Hexanone	3.9	< 3.9	U
127-18-4	Tetrachloroethane	0.8	2.3	B
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	0.4	J
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.6	< 1.6	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	39	< 39	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-07-0780

SAMPLE

Lab Sample ID: UF79H

LIMS ID: 12-1252

Matrix: Soil

Date Analyzed: 01/31/12 11:22

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.6	< 1.6	U
107-13-1	Acrylonitrile	3.9	< 3.9	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	3.9	< 3.9	U
96-18-4	1,2,3-Trichloropropane	1.6	< 1.6	U
110-57-6	trans-1,4-Dichloro-2-butene	3.9	< 3.9	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	3.9	< 3.9	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	3.9	< 3.9	U
91-20-3	Naphthalene	3.9	< 3.9	U
87-61-6	1,2,3-Trichlorobenzene	3.9	< 3.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	118%
d8-Toluene	99.9%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	113%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**Sample ID: Trip Blanks
SAMPLE**

Lab Sample ID: UF79I

LIMS ID: 12-1253

Matrix: Water

 Data Release Authorized: *BB*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/26/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/30/12 18:31

Sample Amount: 5.00 mL

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	10	3.0	J
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

**Sample ID: Trip Blanks
SAMPLE**

 Lab Sample ID: UF79I
 LIMS ID: 12-1253
 Matrix: Water
 Date Analyzed: 01/30/12 18:31

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

 Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	99.7%
Bromofluorobenzene	96.4%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-013012	Method Blank	Low	106%	98.8%	95.8%	104%	0
LCS-013012	Lab Control	Low	102%	101%	102%	99.5%	0
LCSD-013012	Lab Control Dup	Low	102%	101%	102%	99.6%	0
UF79A	SB-W-07-0135	Low	115%	102%	101%	104%	0
UF79B	SB-W-07-0275	Low	117%	102%	100%	106%	0
UF79C	SB-W-07-0335	Low	124%	102%	95.9%	106%	0
UF79CRE	SB-W-07-0335	Med	101%	101%	95.2%	102%	0
UF79D	SB-W-07-0430	Low	116%	100%	96.6%	106%	0
UF79DRE	SB-W-07-0430	Med	99.1%	100%	95.5%	102%	0
MB-013112	Method Blank	Med	98.5%	100%	93.5%	102%	0
LCS-013112	Lab Control	Med	94.0%	100%	98.8%	99.1%	0
LCSD-013112	Lab Control Dup	Med	96.9%	102%	100%	99.3%	0
UF79E	SB-W-07-0530	Low	116%	100%	94.5%	105%	0
UF79ERE	SB-W-07-0530	Med	103%	99.2%	92.8%	104%	0
MB-013112	Method Blank	Low	98.5%	100%	93.5%	102%	0
LCS-013112	Lab Control	Low	94.0%	100%	98.8%	99.1%	0
LCSD-013112	Lab Control Dup	Low	96.9%	102%	100%	99.3%	0
UF79G	SB-W-07-0630	Low	105%	98.8%	92.5%	107%	0
UF79H	SB-W-07-0780	Low	118%	99.9%	94.5%	113%	0

LCS/MB LIMITS

	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 12-1246 to 12-1252

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

ART ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-013012	Method Blank	5	106%	98.8%	95.8%	104%	0
LCS-013012	Lab Control	5	102%	101%	102%	99.5%	0
LCSD-013012	Lab Control Dup	5	102%	101%	102%	99.6%	0
UF79I	Trip Blanks	5	104%	99.7%	96.4%	103%	0

LCS/MB LIMITS
QC LIMITS
SW8260C

(DCE) = d4-1,2-Dichloroethane	80-122	80-125
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B

Log Number Range: 12-1253 to 12-1253

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013012

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013012
LIMS ID: 12-1246
Matrix: Soil
Data Release Authorized: *R*
Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT9/PAB
LCSD: NT9/PAB
Date Analyzed LCS: 01/30/12 16:54
LCSD: 01/30/12 17:15

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	53.6	50.0	107%	50.0	50.0	100%	6.9%
Bromomethane	40.9 Q	50.0	81.8%	38.1 Q	50.0	76.2%	7.1%
Vinyl Chloride	55.5	50.0	111%	52.3	50.0	105%	5.9%
Chloroethane	47.5	50.0	95.0%	43.2	50.0	86.4%	9.5%
Methylene Chloride	47.7 B	50.0	95.4%	45.5 B	50.0	91.0%	4.7%
Acetone	270	250	108%	260	250	104%	3.8%
Carbon Disulfide	60.3	50.0	121%	56.2	50.0	112%	7.0%
1,1-Dichloroethene	57.5	50.0	115%	53.2	50.0	106%	7.8%
1,1-Dichloroethane	58.5	50.0	117%	46.6	50.0	93.2%	22.6%
trans-1,2-Dichloroethene	55.5	50.0	111%	51.8	50.0	104%	6.9%
cis-1,2-Dichloroethene	55.0	50.0	110%	51.5	50.0	103%	6.6%
Chloroform	55.4	50.0	111%	52.4	50.0	105%	5.6%
1,2-Dichloroethane	51.2	50.0	102%	49.5	50.0	99.0%	3.4%
2-Butanone	242	250	96.8%	235	250	94.0%	2.9%
1,1,1-Trichloroethane	58.2	50.0	116%	54.4	50.0	109%	6.7%
Carbon Tetrachloride	47.6	50.0	95.2%	44.2	50.0	88.4%	7.4%
Vinyl Acetate	54.2	50.0	108%	52.0	50.0	104%	4.1%
Bromodichloromethane	56.6	50.0	113%	53.8	50.0	108%	5.1%
1,2-Dichloropropane	53.0	50.0	106%	50.5	50.0	101%	4.8%
cis-1,3-Dichloropropene	56.7	50.0	113%	54.2	50.0	108%	4.5%
Trichloroethene	54.5	50.0	109%	51.0	50.0	102%	6.6%
Dibromochloromethane	45.1	50.0	90.2%	43.9	50.0	87.8%	2.7%
1,1,2-Trichloroethane	51.0	50.0	102%	49.7	50.0	99.4%	2.6%
Benzene	53.3	50.0	107%	50.5	50.0	101%	5.4%
trans-1,3-Dichloropropene	57.3	50.0	115%	54.9	50.0	110%	4.3%
2-Chloroethylvinylether	53.8	50.0	108%	52.0	50.0	104%	3.4%
Bromoform	40.2	50.0	80.4%	39.8	50.0	79.6%	1.0%
4-Methyl-2-Pentanone (MIBK)	247	250	98.8%	249	250	99.6%	0.8%
2-Hexanone	240	250	96.0%	245	250	98.0%	2.1%
Tetrachloroethene	54.8	50.0	110%	52.0	50.0	104%	5.2%
1,1,2,2-Tetrachloroethane	46.4	50.0	92.8%	46.8	50.0	93.6%	0.9%
Toluene	52.0	50.0	104%	49.3	50.0	98.6%	5.3%
Chlorobenzene	51.6	50.0	103%	49.6	50.0	99.2%	4.0%
Ethylbenzene	53.1	50.0	106%	50.4	50.0	101%	5.2%
Styrene	55.3	50.0	111%	53.4	50.0	107%	3.5%
Trichlorofluoromethane	57.9	50.0	116%	53.5	50.0	107%	7.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	58.4	50.0	117%	53.9	50.0	108%	8.0%
m,p-Xylene	109	100	109%	104	100	104%	4.7%
o-Xylene	53.4	50.0	107%	51.2	50.0	102%	4.2%
1,2-Dichlorobenzene	49.1	50.0	98.2%	47.8	50.0	95.6%	2.7%
1,3-Dichlorobenzene	50.5	50.0	101%	48.7	50.0	97.4%	3.6%
1,4-Dichlorobenzene	49.7	50.0	99.4%	47.8	50.0	95.6%	3.9%
Acrolein	250	250	100%	244	250	97.6%	2.4%
Methyl Iodide	70.0	50.0	140%	62.6	50.0	125%	11.2%
Bromoethane	56.0	50.0	112%	52.8	50.0	106%	5.9%
Acrylonitrile	48.4	50.0	96.8%	48.0	50.0	96.0%	0.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-013012

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013012
LIMS ID: 12-1246
Matrix: Soil

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	55.0	50.0	110%	51.3	50.0	103%	7.0%
Dibromomethane	51.0	50.0	102%	49.5	50.0	99.0%	3.0%
1,1,1,2-Tetrachloroethane	55.9	50.0	112%	53.8	50.0	108%	3.8%
1,2-Dibromo-3-chloropropane	47.9	50.0	95.8%	48.2	50.0	96.4%	0.6%
1,2,3-Trichloropropane	46.1	50.0	92.2%	46.5	50.0	93.0%	0.9%
trans-1,4-Dichloro-2-butene	48.9	50.0	97.8%	47.3	50.0	94.6%	3.3%
1,3,5-Trimethylbenzene	52.0	50.0	104%	49.7	50.0	99.4%	4.5%
1,2,4-Trimethylbenzene	51.9	50.0	104%	49.6	50.0	99.2%	4.5%
Hexachlorobutadiene	52.7	50.0	105%	50.3	50.0	101%	4.7%
Ethylene Dibromide	51.7	50.0	103%	50.4	50.0	101%	2.5%
Bromochloromethane	54.4	50.0	109%	51.5	50.0	103%	5.5%
2,2-Dichloropropane	58.9	50.0	118%	54.6	50.0	109%	7.6%
1,3-Dichloropropane	49.0	50.0	98.0%	48.0	50.0	96.0%	2.1%
Isopropylbenzene	51.1	50.0	102%	48.7	50.0	97.4%	4.8%
n-Propylbenzene	52.4	50.0	105%	49.6	50.0	99.2%	5.5%
Bromobenzene	48.6	50.0	97.2%	46.6	50.0	93.2%	4.2%
2-Chlorotoluene	50.0	50.0	100%	47.6	50.0	95.2%	4.9%
4-Chlorotoluene	50.4	50.0	101%	48.3	50.0	96.6%	4.3%
tert-Butylbenzene	50.9	50.0	102%	48.7	50.0	97.4%	4.4%
sec-Butylbenzene	52.5	50.0	105%	50.1	50.0	100%	4.7%
4-Isopropyltoluene	53.5	50.0	107%	50.8	50.0	102%	5.2%
n-Butylbenzene	54.2	50.0	108%	51.4	50.0	103%	5.3%
1,2,4-Trichlorobenzene	51.6	50.0	103%	49.1	50.0	98.2%	5.0%
Naphthalene	46.0	50.0	92.0%	45.7	50.0	91.4%	0.7%
1,2,3-Trichlorobenzene	49.1	50.0	98.2%	47.6	50.0	95.2%	3.1%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	102%
d8-Toluene	101%	101%
Bromofluorobenzene	102%	102%
d4-1,2-Dichlorobenzene	99.5%	99.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: LCS-013012

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013012

LIMS ID: 12-1253

Matrix: Water

Data Release Authorized: *B*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 01/30/12 16:54

LCSD: 01/30/12 17:15

Sample Amount LCS: 5.00 mL

LCSD: 5.00 mL

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	53.6	50.0	107%	50.0	50.0	100%	6.9%
Bromomethane	40.9 Q	50.0	81.8%	38.1 Q	50.0	76.2%	7.1%
Vinyl Chloride	55.5	50.0	111%	52.3	50.0	105%	5.9%
Chloroethane	47.5	50.0	95.0%	43.2	50.0	86.4%	9.5%
Methylene Chloride	47.7 B	50.0	95.4%	45.5 B	50.0	91.0%	4.7%
Acetone	270	250	108%	260	250	104%	3.8%
Carbon Disulfide	60.3	50.0	121%	56.2	50.0	112%	7.0%
1,1-Dichloroethene	57.5	50.0	115%	53.2	50.0	106%	7.8%
1,1-Dichloroethane	58.5	50.0	117%	46.6	50.0	93.2%	22.6%
trans-1,2-Dichloroethene	55.5	50.0	111%	51.8	50.0	104%	6.9%
cis-1,2-Dichloroethene	55.0	50.0	110%	51.5	50.0	103%	6.6%
Chloroform	55.4	50.0	111%	52.4	50.0	105%	5.6%
1,2-Dichloroethane	51.2	50.0	102%	49.5	50.0	99.0%	3.4%
2-Butanone	242	250	96.8%	235	250	94.0%	2.9%
1,1,1-Trichloroethane	58.2	50.0	116%	54.4	50.0	109%	6.7%
Carbon Tetrachloride	47.6	50.0	95.2%	44.2	50.0	88.4%	7.4%
Vinyl Acetate	54.2	50.0	108%	52.0	50.0	104%	4.1%
Bromodichromethane	56.6	50.0	113%	53.8	50.0	108%	5.1%
1,2-Dichloropropane	53.0	50.0	106%	50.5	50.0	101%	4.8%
cis-1,3-Dichloropropene	56.7	50.0	113%	54.2	50.0	108%	4.5%
Trichloroethene	54.5	50.0	109%	51.0	50.0	102%	6.6%
Dibromochloromethane	45.1	50.0	90.2%	43.9	50.0	87.8%	2.7%
1,1,2-Trichloroethane	51.0	50.0	102%	49.7	50.0	99.4%	2.6%
Benzene	53.3	50.0	107%	50.5	50.0	101%	5.4%
trans-1,3-Dichloropropene	57.3	50.0	115%	54.9	50.0	110%	4.3%
2-Chloroethylvinyl ether	53.8	50.0	108%	52.0	50.0	104%	3.4%
Bromoform	40.2	50.0	80.4%	39.8	50.0	79.6%	1.0%
4-Methyl-2-Pentanone (MIBK)	247	250	98.8%	249	250	99.6%	0.8%
2-Hexanone	240	250	96.0%	245	250	98.0%	2.1%
Tetrachloroethene	54.8	50.0	110%	52.0	50.0	104%	5.2%
1,1,2,2-Tetrachloroethane	46.4	50.0	92.8%	46.8	50.0	93.6%	0.9%
Toluene	52.0	50.0	104%	49.3	50.0	98.6%	5.3%
Chlorobenzene	51.6	50.0	103%	49.6	50.0	99.2%	4.0%
Ethylbenzene	53.1	50.0	106%	50.4	50.0	101%	5.2%
Styrene	55.3	50.0	111%	53.4	50.0	107%	3.5%
Trichlorofluoromethane	57.9	50.0	116%	53.5	50.0	107%	7.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	58.4	50.0	117%	53.9	50.0	108%	8.0%
m,p-Xylene	109	100	109%	104	100	104%	4.7%
o-Xylene	53.4	50.0	107%	51.2	50.0	102%	4.2%
1,2-Dichlorobenzene	49.1	50.0	98.2%	47.8	50.0	95.6%	2.7%
1,3-Dichlorobenzene	50.5	50.0	101%	48.7	50.0	97.4%	3.6%
1,4-Dichlorobenzene	49.7	50.0	99.4%	47.8	50.0	95.6%	3.9%
Acrolein	250	250	100%	244	250	97.6%	2.4%
Methyl Iodide	70.0	50.0	140%	62.6	50.0	125%	11.2%
Bromoethane	56.0	50.0	112%	52.8	50.0	106%	5.9%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: LCS-013012
LAB CONTROL SAMPLE

Lab Sample ID: LCS-013012

QC Report No: UF79-Windward Environmental, LLC

LIMS ID: 12-1253

Project: ALSCO Dexter

Matrix: Water

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	48.4	50.0	96.8%	48.0	50.0	96.0%	0.8%
1,1-Dichloropropene	55.0	50.0	110%	51.3	50.0	103%	7.0%
Dibromomethane	51.0	50.0	102%	49.5	50.0	99.0%	3.0%
1,1,1,2-Tetrachloroethane	55.9	50.0	112%	53.8	50.0	108%	3.8%
1,2-Dibromo-3-chloropropane	47.9	50.0	95.8%	48.2	50.0	96.4%	0.6%
1,2,3-Trichloropropane	46.1	50.0	92.2%	46.5	50.0	93.0%	0.9%
trans-1,4-Dichloro-2-butene	48.9	50.0	97.8%	47.3	50.0	94.6%	3.3%
1,3,5-Trimethylbenzene	52.0	50.0	104%	49.7	50.0	99.4%	4.5%
1,2,4-Trimethylbenzene	51.9	50.0	104%	49.6	50.0	99.2%	4.5%
Hexachlorobutadiene	52.7	50.0	105%	50.3	50.0	101%	4.7%
Ethylene Dibromide	51.7	50.0	103%	50.4	50.0	101%	2.5%
Bromochloromethane	54.4	50.0	109%	51.5	50.0	103%	5.5%
2,2-Dichloropropane	58.9	50.0	118%	54.6	50.0	109%	7.6%
1,3-Dichloropropane	49.0	50.0	98.0%	48.0	50.0	96.0%	2.1%
Isopropylbenzene	51.1	50.0	102%	48.7	50.0	97.4%	4.8%
n-Propylbenzene	52.4	50.0	105%	49.6	50.0	99.2%	5.5%
Bromobenzene	48.6	50.0	97.2%	46.6	50.0	93.2%	4.2%
2-Chlorotoluene	50.0	50.0	100%	47.6	50.0	95.2%	4.9%
4-Chlorotoluene	50.4	50.0	101%	48.3	50.0	96.6%	4.3%
tert-Butylbenzene	50.9	50.0	102%	48.7	50.0	97.4%	4.4%
sec-Butylbenzene	52.5	50.0	105%	50.1	50.0	100%	4.7%
4-Isopropyltoluene	53.5	50.0	107%	50.8	50.0	102%	5.2%
n-Butylbenzene	54.2	50.0	108%	51.4	50.0	103%	5.3%
1,2,4-Trichlorobenzene	51.6	50.0	103%	49.1	50.0	98.2%	5.0%
Naphthalene	46.0	50.0	92.0%	45.7	50.0	91.4%	0.7%
1,2,3-Trichlorobenzene	49.1	50.0	98.2%	47.6	50.0	95.2%	3.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	102%
d8-Toluene	101%	101%
Bromofluorobenzene	102%	102%
d4-1,2-Dichlorobenzene	99.5%	99.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

LIMS ID: 12-1251

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 01/31/12 09:19

LCSD: 01/31/12 09:40

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RFD
Chloromethane	51.2	50.0	102%	49.0	50.0	98.0%	4.4%
Bromomethane	41.6 B	50.0	83.2%	44.6 B	50.0	89.2%	7.0%
Vinyl Chloride	56.0	50.0	112%	53.6	50.0	107%	4.4%
Chloroethane	45.0	50.0	90.0%	42.5	50.0	85.0%	5.7%
Methylene Chloride	47.4 B	50.0	94.8%	46.5 B	50.0	93.0%	1.9%
Acetone	247	250	98.8%	258	250	103%	4.4%
Carbon Disulfide	60.3	50.0	121%	56.3	50.0	113%	6.9%
1,1-Dichloroethene	58.6	50.0	117%	54.9	50.0	110%	6.5%
1,1-Dichloroethane	55.6	50.0	111%	45.0	50.0	90.0%	21.1%
trans-1,2-Dichloroethene	55.1	50.0	110%	51.9	50.0	104%	6.0%
cis-1,2-Dichloroethene	53.5	50.0	107%	50.7	50.0	101%	5.4%
Chloroform	52.2	50.0	104%	50.0	50.0	100%	4.3%
1,2-Dichloroethane	46.8	50.0	93.6%	46.2	50.0	92.4%	1.3%
2-Butanone	226	250	90.4%	245	250	98.0%	8.1%
1,1,1-Trichloroethane	54.4	50.0	109%	51.8	50.0	104%	4.9%
Carbon Tetrachloride	45.1	50.0	90.2%	41.7	50.0	83.4%	7.8%
Vinyl Acetate	48.6	50.0	97.2%	49.9	50.0	99.8%	2.6%
Bromodichloromethane	53.5	50.0	107%	51.6	50.0	103%	3.6%
1,2-Dichloropropane	51.1	50.0	102%	49.5	50.0	99.0%	3.2%
cis-1,3-Dichloropropene	54.6	50.0	109%	52.9	50.0	106%	3.2%
Trichloroethene	53.3	50.0	107%	49.9	50.0	99.8%	6.6%
Dibromochloromethane	44.0	50.0	88.0%	42.7	50.0	85.4%	3.0%
1,1,2-Trichloroethane	49.5	50.0	99.0%	50.3	50.0	101%	1.6%
Benzene	52.4	50.0	105%	50.1	50.0	100%	4.5%
trans-1,3-Dichloropropene	54.8	50.0	110%	54.3	50.0	109%	0.9%
2-Chloroethylvinylether	44.2	50.0	88.4%	46.4	50.0	92.8%	4.9%
Bromoform	41.3	50.0	82.6%	40.3	50.0	80.6%	2.5%
4-Methyl-2-Pentanone (MIBK)	231	250	92.4%	257	250	103%	10.7%
2-Hexanone	217	250	86.8%	236	250	94.4%	8.4%
Tetrachloroethene	55.0 B	50.0	110%	51.3 B	50.0	103%	7.0%
1,1,2,2-Tetrachloroethane	46.0	50.0	92.0%	46.5	50.0	93.0%	1.1%
Toluene	50.6	50.0	101%	49.5	50.0	99.0%	2.2%
Chlorobenzene	51.2	50.0	102%	48.6	50.0	97.2%	5.2%
Ethylbenzene	52.1	50.0	104%	49.7	50.0	99.4%	4.7%
Styrene	54.0	50.0	108%	52.1	50.0	104%	3.6%
Trichlorofluoromethane	59.6	50.0	119%	55.3	50.0	111%	7.5%
1,1,2-Trichloro-1,2,2-trifluoroethane	59.5	50.0	119%	55.2	50.0	110%	7.5%
m,p-Xylene	107	100	107%	103	100	103%	3.8%
o-Xylene	52.0	50.0	104%	50.2	50.0	100%	3.5%
1,2-Dichlorobenzene	48.9	50.0	97.8%	46.1	50.0	92.2%	5.9%
1,3-Dichlorobenzene	50.1	50.0	100%	47.2	50.0	94.4%	6.0%
1,4-Dichlorobenzene	49.4	50.0	98.8%	46.3	50.0	92.6%	6.5%
Acrolein	230	250	92.0%	246	250	98.4%	6.7%
Methyl Iodide	52.4	50.0	105%	55.8	50.0	112%	6.3%
Bromoethane	54.0	50.0	108%	52.8	50.0	106%	2.2%
Acrylonitrile	45.8	50.0	91.6%	48.8	50.0	97.6%	6.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112
LIMS ID: 12-1251
Matrix: Soil

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike	LCS	Spike	LCS	RPD	
		Added-LCS	Recovery	LCSD	Added-LCSD		
1,1-Dichloropropene	52.8	50.0	106%	49.6	50.0	99.2%	6.2%
Dibromomethane	48.8	50.0	97.6%	48.8	50.0	97.6%	0.0%
1,1,1,2-Tetrachloroethane	54.4	50.0	109%	52.1	50.0	104%	4.3%
1,2-Dibromo-3-chloropropane	45.7	50.0	91.4%	47.7	50.0	95.4%	4.3%
1,2,3-Trichloropropane	45.3	50.0	90.6%	46.1	50.0	92.2%	1.8%
trans-1,4-Dichloro-2-butene	46.0	50.0	92.0%	46.4	50.0	92.8%	0.9%
1,3,5-Trimethylbenzene	51.3	50.0	103%	48.4	50.0	96.8%	5.8%
1,2,4-Trimethylbenzene	50.8	50.0	102%	47.9	50.0	95.6%	5.9%
Hexachlorobutadiene	52.9	50.0	106%	48.8	50.0	97.6%	8.1%
Ethylene Dibromide	49.3	50.0	98.6%	50.7	50.0	101%	2.8%
Bromochloromethane	51.8	50.0	104%	50.7	50.0	101%	2.1%
2,2-Dichloropropane	54.4	50.0	109%	51.2	50.0	102%	6.1%
1,3-Dichloropropane	47.4	50.0	94.8%	47.0	50.0	94.0%	0.8%
Isopropylbenzene	51.4	50.0	103%	48.5	50.0	97.0%	5.8%
n-Propylbenzene	52.3	50.0	105%	49.1	50.0	98.2%	6.3%
Bromobenzene	48.1	50.0	96.2%	46.0	50.0	92.0%	4.5%
2-Chlorotoluene	48.9	50.0	97.8%	46.4	50.0	92.8%	5.2%
4-Chlorotoluene	49.4	50.0	98.8%	46.5	50.0	93.0%	6.0%
tert-Butylbenzene	50.8	50.0	102%	47.9	50.0	95.8%	5.9%
sec-Butylbenzene	52.8	50.0	106%	49.4	50.0	98.8%	6.7%
4-Isopropyltoluene	53.1	50.0	106%	49.4	50.0	98.8%	7.2%
n-Butylbenzene	53.9	50.0	108%	49.4	50.0	98.8%	8.7%
1,2,4-Trichlorobenzene	50.5 B	50.0	101%	47.2 B	50.0	94.4%	6.8%
Naphthalene	44.3 B	50.0	88.6%	45.7 B	50.0	91.4%	3.1%
1,2,3-Trichlorobenzene	48.0	50.0	96.0%	46.7	50.0	93.4%	2.7%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.0%	96.9%
d8-Toluene	100%	102%
Bromofluorobenzene	98.8%	100%
d4-1,2-Dichlorobenzene	99.1%	99.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

QC Report No: UF79-Windward Environmental, LLC
Project: ALSOCO Dexter

LIMS ID: 12-1250

Matrix: Soil

Data Release Authorized:

Reported: 02/02/12

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

Sample Amount LCS: 100 mg-dry-wt

LCSD: NT9/PAB

LCSD: 100 mg-dry-wt

Date Analyzed LCS: 01/31/12 09:19

Purge Volume LCS: 5.0 mL

LCSD: 01/31/12 09:40

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2560	2500	102%	2450	2500	98.0%	4.4%
Bromomethane	2080	QB	83.2%	2230	QB	2500	89.2%
Vinyl Chloride	2800	2500	112%	2680	2500	107%	4.4%
Chloroethane	2250	2500	90.0%	2130	2500	85.2%	5.5%
Methylene Chloride	2370	B	94.8%	2330	B	2500	93.2%
Acetone	12300	12500	98.4%	12900	12500	103%	4.8%
Carbon Disulfide	3020	2500	121%	2810	2500	112%	7.2%
1,1-Dichloroethene	2930	2500	117%	2740	2500	110%	6.7%
1,1-Dichloroethane	2780	2500	111%	2250	2500	90.0%	21.1%
trans-1,2-Dichloroethene	2760	2500	110%	2600	2500	104%	6.0%
cis-1,2-Dichloroethene	2670	2500	107%	2540	2500	102%	5.0%
Chloroform	2610	2500	104%	2500	2500	100%	4.3%
1,2-Dichloroethane	2340	2500	93.6%	2310	2500	92.4%	1.3%
2-Butanone	11300	12500	90.4%	12200	12500	97.6%	7.7%
1,1,1-Trichloroethane	2720	2500	109%	2590	2500	104%	4.9%
Carbon Tetrachloride	2250	2500	90.0%	2090	2500	83.6%	7.4%
Vinyl Acetate	2430	2500	97.2%	2500	2500	100%	2.8%
Bromodichloromethane	2680	2500	107%	2580	2500	103%	3.8%
1,2-Dichloropropane	2550	2500	102%	2470	2500	98.8%	3.2%
cis-1,3-Dichloropropene	2730	2500	109%	2640	2500	106%	3.4%
Trichloroethene	2670	2500	107%	2500	2500	100%	6.6%
Dibromochloromethane	2200	2500	88.0%	2140	2500	85.6%	2.8%
1,1,2-Trichloroethane	2470	2500	98.8%	2520	2500	101%	2.0%
Benzene	2620	2500	105%	2500	2500	100%	4.7%
trans-1,3-Dichloropropene	2740	2500	110%	2720	2500	109%	0.7%
2-Chloroethylvinylether	2210	2500	88.4%	2320	2500	92.8%	4.9%
Bromoform	2060	2500	82.4%	2020	2500	80.8%	2.0%
4-Methyl-2-Pentanone (MIBK)	11600	12500	92.8%	12900	12500	103%	10.6%
2-Hexanone	10800	12500	86.4%	11800	12500	94.4%	8.8%
Tetrachloroethene	2750	B	2500	110%	2570	B	2500
1,1,2,2-Tetrachloroethane	2300	2500	92.0%	2330	2500	93.2%	1.3%
Toluene	2530	2500	101%	2480	2500	99.2%	2.0%
Chlorobenzene	2560	2500	102%	2430	2500	97.2%	5.2%
Ethylbenzene	2600	2500	104%	2490	2500	99.6%	4.3%
Styrene	2700	2500	108%	2610	2500	104%	3.4%
Trichlorofluoromethane	2980	2500	119%	2770	2500	111%	7.3%
1,1,2-Trichloro-1,2,2-trifluoroetha	2980	2500	119%	2760	2500	110%	7.7%
m,p-Xylene	5360	5000	107%	5150	5000	103%	4.0%
c-Xylene	2600	2500	104%	2510	2500	100%	3.5%

do 3/17/08

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-013112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112
LIMS ID: 12-1250
Matrix: Soil

QC Report No: UF79-Windward Environmental, LLC
Project: ALSKO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dichlorobenzene	2440	2500	97.6%	2300	2500	92.0%	5.9%
1,3-Dichlorobenzene	2510	2500	100%	2360	2500	94.4%	6.2%
1,4-Dichlorobenzene	2470	2500	98.8%	2310	2500	92.4%	6.7%
Acrolein	11500	12500	92.0%	12300	12500	98.4%	6.7%
Methyl Iodide	2620	2500	105%	2790	2500	112%	6.3%
Bromoethane	2700	2500	108%	2640	2500	106%	2.2%
Acrylonitrile	2290	2500	91.6%	2440	2500	97.6%	6.3%
1,1-Dichloropropene	2640	2500	106%	2480	2500	99.2%	6.2%
Dibromomethane	2440	2500	97.6%	2440	2500	97.6%	0.0%
1,1,1,2-Tetrachloroethane	2720	2500	109%	2610	2500	104%	4.1%
1,2-Dibromo-3-chloropropane	2290	2500	91.6%	2390	2500	95.6%	4.3%
1,2,3-Trichloropropane	2270	2500	90.8%	2310	2500	92.4%	1.7%
trans-1,4-Dichloro-2-butene	2300	2500	92.0%	2320	2500	92.8%	0.9%
1,3,5-Trimethylbenzene	2570	2500	103%	2420	2500	96.8%	6.0%
1,2,4-Trimethylbenzene	2540	2500	102%	2400	2500	96.0%	5.7%
Hexachlorobutadiene	2640	2500	106%	2440	2500	97.6%	7.9%
Ethylene Dibromide	2460	2500	98.4%	2540	2500	102%	3.2%
Bromochloromethane	2590	2500	104%	2530	2500	101%	2.3%
2,2-Dichloropropane	2720	2500	109%	2560	2500	102%	6.1%
1,3-Dichloropropane	2370	2500	94.6%	2350	2500	94.0%	0.8%
Isopropylbenzene	2570	2500	103%	2430	2500	97.2%	5.6%
n-Propylbenzene	2610	2500	104%	2460	2500	98.4%	5.9%
Bromobenzene	2410	2500	96.4%	2300	2500	92.0%	4.7%
2-Chlorotoluene	2450	2500	98.0%	2320	2500	92.8%	5.5%
4-Chlorotoluene	2470	2500	98.8%	2320	2500	92.8%	6.3%
tert-Butylbenzene	2540	2500	102%	2400	2500	96.0%	5.7%
sec-Butylbenzene	2640	2500	106%	2470	2500	98.8%	6.7%
4-Isopropyltoluene	2660	2500	106%	2470	2500	98.8%	7.4%
n-Butylbenzene	2700	2500	108%	2470	2500	98.8%	8.9%
1,2,4-Trichlorobenzene	2520 B	2500	101%	2360 B	2500	94.4%	6.6%
Naphthalene	2210 B	2500	88.4%	2280 B	2500	91.2%	3.1%
1,2,3-Trichlorobenzene	2400	2500	96.0%	2340	2500	93.6%	2.5%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.0%	96.9%
d8-Toluene	100%	102%
Bromofluorobenzene	98.8%	100%
d4-1,2-Dichlorobenzene	99.1%	99.3%

W 7/21/09

UF79-00039

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: MB-013012
METHOD BLANK

 Lab Sample ID: MB-013012
 LIMS ID: 12-1246
 Matrix: Soil
 Data Release Authorized: *R*
 Reported: 02/01/12

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: NA
 Date Received: NA

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 01/30/12 18:10

 Sample Amount: 5.00 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.2	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	<i>o</i> -Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013012
METHOD BLANK

Lab Sample ID: MB-013012

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1246

Matrix: Soil

Date Analyzed: 01/30/12 18:10

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in pg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	98.8%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: MB-013012
METHOD BLANK

 Lab Sample ID: MB-013012
 LIMS ID: 12-1253
 Matrix: Water
 Data Release Authorized: *B*
 Reported: 02/01/12

 QC Report No: UF79-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: NA
 Date Received: NA

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 01/30/12 18:10

 Sample Amount: 5.00 mL
 Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.2	J
67-64-1	Acetone	10	< 10	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013012
METHOD BLANK

Lab Sample ID: MB-013012

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1253

Matrix: Water

Date Analyzed: 01/30/12 18:10

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isooctyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	98.8%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112
LIMS ID: 12-1251
Matrix: Soil
Data Release Authorized: *J*
Reported: 02/01/12

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 10:01

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	0.6	J
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	0.9	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	0.8	J
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1251

Matrix: Soil

Date Analyzed: 01/31/12 10:01

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	0.5	J
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	100%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112
LIMS ID: 12-1250
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/02/12

QC Report No: UF79-Windward Environmental, LLC
Project: ALSCO Dexter
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 10:01

Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	30	J
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	44	J
67-64-1	Acetone	250	< 250	U
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	42	J
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethylbenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U

ew 2/10

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

LIMS ID: 12-1250

Matrix: Soil

Date Analyzed: 01/31/12 10:01

QC Report No: UF79-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	c-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	25	J
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	100%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	102%

02/20/12

UF79: 00847



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 2, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: ALSCO Dexter
ARI Job No.: UG07

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted seven soil samples and a trip blank on January 27, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 6.4°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The continuing calibration fell outside the 20% control limit low for Bromomethane. All detected results for this compound have been flagged with a "Q" qualifier. No further corrective action was taken.

Bromomethane, Methylene Chloride, Tetrachloroethene, 1,2,4-Trichlorobenzene, and Naphthalene were present in the low-level method blank **MB-013112** at levels that were greater than $\frac{1}{2}$ the reporting limits. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

Several matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits for sample **SB-W-03-0555**. No corrective action is required for matrix QC.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Cheronne Oreiro
Project Manager

-For-

Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UG07



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward

COC No(s): *(NA)*

Assigned ARI Job No UG07

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) ("C) (recommended 2.0-6.0 °C for chemistry) 16.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# 90741619

Cooler Accepted by AV Date: 1/27/12 Time: 1800

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA 1/23/12

Was Sample Split by ARI? YES Date/Time: Equipment: Split by:

Samples Logged by AVJM Date: 1/27/12 Time: 1800 Job# 709

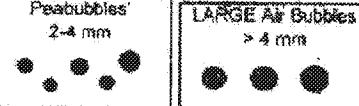
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:

<small>Small Air Bubbles ~2mm</small> 	<small>Peabubbles 2-4 mm</small> 	<small>LARGE Air Bubbles > 4 mm</small> 	<small>Small → "sm"</small> <small>Peabubbles → "pb"</small> <small>Large → "lg"</small> <small>Headspace → "bs"</small>
--	---	---	---



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

4607

Completed by:

1

10

Date: 1/27/12

Time: 1865

00070F

Sample ID Cross Reference Report

ARI Job No: UG07

Client: Windward Environmental, LLC

Project Event: N/A

Project Name: Alsco Dexter

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SB-W-03-0160	UG07A	12-1369	Soil	01/27/12 10:30	01/27/12 18:00
2. SB-W-03-0225	UG07B	12-1370	Soil	01/27/12 10:55	01/27/12 18:00
3. SB-W-03-0315	UG07C	12-1371	Soil	01/27/12 11:20	01/27/12 18:00
4. SB-W-03-0450	UG07D	12-1372	Soil	01/27/12 12:20	01/27/12 18:00
5. SB-W-03-0555	UG07E	12-1373	Soil	01/27/12 13:05	01/27/12 18:00
6. SB-W-03-0645	UG07F	12-1374	Soil	01/27/12 13:35	01/27/12 18:00
7. SB-W-03-0730	UG07G	12-1375	Soil	01/27/12 13:45	01/27/12 18:00
8. Trip Blank	UG07H	12-1376	Water	01/27/12	01/27/12 18:00

Printed 01/30/12

UG07:66005



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0160
SAMPLE

Lab Sample ID: UG07A

LIMS ID: 12-1369

Matrix: Soil

Data Release Authorized:

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/27/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 15:32

Sample Amount: 5.23 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 15.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	1.9	2.7	B
67-64-1	Acetone	4.8	11	
75-15-0	Carbon Disulfide	1.0	1.3	
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	0.6	J
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	< 4.8	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.8	< 4.8	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	0.6	J
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	48	< 48	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

**Sample ID: SB-W-03-0160
SAMPLE**

Lab Sample ID: UG07A

LIMS ID: 12-1369

Matrix: Soil

Date Analyzed: 01/31/12 15:32

**QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter**

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.8	< 4.8	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.8	< 4.8	U
91-20-3	Naphthalene	4.8	< 4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	< 4.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	100%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0225

SAMPLE

Lab Sample ID: UG07B

LIMS ID: 12-1370

Matrix: Soil

Data Release Authorized:

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSOCO Dexter

Date Sampled: 01/27/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 15:53

Sample Amount: 5.87 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 15.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	3.2	B
67-64-1	Acetone	4.3	7.4	
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	2.1	
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	4.4	
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	1.8	
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethane	0.9	30	B
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	0.7	J
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0225
SAMPLE

Lab Sample ID: UG07B

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

LIMS ID: 12-1370

Matrix: Soil

Date Analyzed: 01/31/12 15:53

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	101%
Bromofluorobenzene	97.4%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0315

SAMPLE

Lab Sample ID: UG07C

LIMS ID: 12-1371

Matrix: Soil

Data Release Authorized:

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSOCO Dexter

Date Sampled: 01/27/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 17:18

Sample Amount: 24.3 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 10.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	210	< 210	U
74-83-9	Bromomethane	210	< 210	U
75-01-4	Vinyl Chloride	210	< 210	U
75-00-3	Chloroethane	210	< 210	U
75-09-2	Methylene Chloride	410	< 410	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	210	< 210	U
75-35-4	1,1-Dichloroethene	210	< 210	U
75-34-3	1,1-Dichloroethane	210	< 210	U
156-60-5	trans-1,2-Dichloroethene	210	< 210	U
156-59-2	cis-1,2-Dichloroethene	210	480	
67-66-3	Chloroform	210	< 210	U
107-06-2	1,2-Dichloroethane	210	< 210	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	210	< 210	U
56-23-5	Carbon Tetrachloride	210	< 210	U
108-05-4	Vinyl Acetate	1,000	< 1,000	U
75-27-4	Bromodichloromethane	210	< 210	U
78-87-5	1,2-Dichloropropane	210	< 210	U
10061-01-5	cis-1,3-Dichloropropene	210	< 210	U
79-01-6	Trichloroethene	210	590	
124-48-1	Dibromochloromethane	210	< 210	U
79-00-5	1,1,2-Trichloroethane	210	< 210	U
71-43-2	Benzene	210	< 210	U
10061-02-6	trans-1,3-Dichloropropene	210	< 210	U
110-75-8	2-Chloroethylvinylether	1,000	< 1,000	U
75-25-2	Bromoform	210	< 210	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	210	16,000	B
79-34-5	1,1,2,2-Tetrachloroethane	210	< 210	U
108-88-3	Toluene	210	< 210	U
108-90-7	Chlorobenzene	210	< 210	U
100-41-4	Ethylbenzene	210	< 210	U
100-42-5	Styrene	210	< 210	U
75-69-4	Trichlorofluoromethane	210	< 210	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	410	< 410	U
179601-23-1	m,p-Xylene	210	< 210	U
95-47-6	o-Xylene	210	< 210	U
95-50-1	1,2-Dichlorobenzene	210	< 210	U
541-73-1	1,3-Dichlorobenzene	210	< 210	U
106-46-7	1,4-Dichlorobenzene	210	< 210	U
107-02-8	Acrolein	10,000	< 10,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0315
SAMPLE

Lab Sample ID: UG07C
LIMS ID: 12-1371
Matrix: Soil
Date Analyzed: 01/31/12 17:18

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	210	< 210	U
74-96-4	Bromoethane	410	< 410	U
107-13-1	Acrylonitrile	1,000	< 1,000	U
563-58-6	1,1-Dichloropropene	210	< 210	U
74-95-3	Dibromomethane	210	< 210	U
630-20-6	1,1,1,2-Tetrachloroethane	210	< 210	U
96-12-8	1,2-Dibromo-3-chloropropane	1,000	< 1,000	U
96-18-4	1,2,3-Trichloropropane	410	< 410	U
110-57-6	trans-1,4-Dichloro-2-butene	1,000	< 1,000	U
108-67-8	1,3,5-Trimethylbenzene	210	< 210	U
95-63-6	1,2,4-Trimethylbenzene	210	< 210	U
87-68-3	Hexachlorobutadiene	1,000	< 1,000	U
106-93-4	Ethylene Dibromide	210	< 210	U
74-97-5	Bromochloromethane	210	< 210	U
594-20-7	2,2-Dichloropropane	210	< 210	U
142-28-9	1,3-Dichloropropane	210	< 210	U
98-82-8	Isopropylbenzene	210	< 210	U
103-65-1	n-Propylbenzene	210	< 210	U
108-86-1	Bromobenzene	210	< 210	U
95-49-8	2-Chlorotoluene	210	< 210	U
106-43-4	4-Chlorotoluene	210	< 210	U
98-06-6	tert-Butylbenzene	210	< 210	U
135-98-8	sec-Butylbenzene	210	< 210	U
99-87-6	4-Isopropyltoluene	210	< 210	U
104-51-8	n-Butylbenzene	210	< 210	U
120-82-1	1,2,4-Trichlorobenzene	1,000	< 1,000	U
91-20-3	Naphthalene	1,000	< 1,000	U
87-61-6	1,2,3-Trichlorobenzene	1,000	< 1,000	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	101%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	106%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-03-0450
SAMPLE

Lab Sample ID: UG07D

QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1372

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/02/12

Date Sampled: 01/27/12
Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Sample Amount: 7.12 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.2%

Date Analyzed: 01/31/12 16:36

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.7	< 0.7	U
74-83-9	Bromomethane	0.7	< 0.7	U
75-01-4	Vinyl Chloride	0.7	< 0.7	U
75-00-3	Chloroethane	0.7	< 0.7	U
75-09-2	Methylene Chloride	1.4	2.5	B
67-64-1	Acetone	3.5	10	
75-15-0	Carbon Disulfide	0.7	2.9	
75-35-4	1,1-Dichloroethene	0.7	< 0.7	U
75-34-3	1,1-Dichloroethane	0.7	< 0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	0.5	J
156-59-2	cis-1,2-Dichloroethene	0.7	41	
67-66-3	Chloroform	0.7	< 0.7	U
107-06-2	1,2-Dichloroethane	0.7	< 0.7	U
78-93-3	2-Butanone	3.5	1.9	J
71-55-6	1,1,1-Trichloroethane	0.7	< 0.7	U
56-23-5	Carbon Tetrachloride	0.7	< 0.7	U
108-05-4	Vinyl Acetate	3.5	< 3.5	U
75-27-4	Bromodichloromethane	0.7	< 0.7	U
78-87-5	1,2-Dichloropropane	0.7	< 0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	< 0.7	U
79-01-6	Trichloroethene	0.7	22	
124-48-1	Dibromochloromethane	0.7	< 0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	< 0.7	U
71-43-2	Benzene	0.7	< 0.7	U
10061-02-6	trans-1,3-Dichloropropene	0.7	< 0.7	U
110-75-8	2-Chloroethylvinylether	3.5	< 3.5	U
75-25-2	Bromoform	0.7	< 0.7	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.5	< 3.5	U
591-78-6	2-Hexanone	3.5	< 3.5	U
127-18-4	Tetrachloroethene	0.7	190	EB
79-34-5	1,1,2,2-Tetrachloroethane	0.7	< 0.7	U
108-88-3	Toluene	0.7	0.6	J
108-90-7	Chlorobenzene	0.7	< 0.7	U
100-41-4	Ethylbenzene	0.7	< 0.7	U
100-42-5	Styrene	0.7	< 0.7	U
75-69-4	Trichlorofluoromethane	0.7	< 0.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.4	< 1.4	U
179601-23-1	m,p-Xylene	0.7	< 0.7	U
95-47-6	o-Xylene	0.7	< 0.7	U
95-50-1	1,2-Dichlorobenzene	0.7	< 0.7	U
541-73-1	1,3-Dichlorobenzene	0.7	< 0.7	U
106-46-7	1,4-Dichlorobenzene	0.7	< 0.7	U
107-02-8	Acrolein	35	< 35	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0450
SAMPLE

Lab Sample ID: UG07D
LIMS ID: 12-1372
Matrix: Soil
Date Analyzed: 01/31/12 16:36

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.7	< 0.7	U
74-96-4	Bromoethane	1.4	< 1.4	U
107-13-1	Acrylonitrile	3.5	< 3.5	U
563-58-6	1,1-Dichloropropene	0.7	< 0.7	U
74-95-3	Dibromomethane	0.7	< 0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	< 0.7	U
96-12-8	1,2-Dibromo-3-chloropropane	3.5	< 3.5	U
96-18-4	1,2,3-Trichloropropane	1.4	< 1.4	U
110-57-6	trans-1,4-Dichloro-2-butene	3.5	< 3.5	U
108-67-8	1,3,5-Trimethylbenzene	0.7	< 0.7	U
95-63-6	1,2,4-Trimethylbenzene	0.7	< 0.7	U
87-68-3	Hexachlorobutadiene	3.5	< 3.5	U
106-93-4	Ethylene Dibromide	0.7	< 0.7	U
74-97-5	Bromochloromethane	0.7	< 0.7	U
594-20-7	2,2-Dichloropropane	0.7	< 0.7	U
142-28-9	1,3-Dichloropropane	0.7	< 0.7	U
98-82-8	Isopropylbenzene	0.7	< 0.7	U
103-65-1	n-Propylbenzene	0.7	< 0.7	U
108-86-1	Bromobenzene	0.7	< 0.7	U
95-49-8	2-Chlorotoluene	0.7	< 0.7	U
106-43-4	4-Chlorotoluene	0.7	< 0.7	U
98-06-6	tert-Butylbenzene	0.7	< 0.7	U
135-98-8	sec-Butylbenzene	0.7	< 0.7	U
99-87-6	4-Isopropyltoluene	0.7	< 0.7	U
104-51-8	n-Butylbenzene	0.7	< 0.7	U
120-82-1	1,2,4-Trichlorobenzene	3.5	< 3.5	U
91-20-3	Naphthalene	3.5	< 3.5	U
87-61-6	1,2,3-Trichlorobenzene	3.5	< 3.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	101%
Bromofluorobenzene	97.9%
d4-1,2-Dichlorobenzene	107%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-03-0450
REANALYSIS

Lab Sample ID: UG07D

QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1372

Matrix: Soil

Data Release Authorized:

B

Date Sampled: 01/27/12

Reported: 02/02/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Sample Amount: 114 mg-dry-wt

Date Analyzed: 01/31/12 13:51

Purge Volume: 5.0 mL

Moisture: 5.2%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	44	< 44	U
74-83-9	Bromomethane	44	< 44	U
75-01-4	Vinyl Chloride	44	< 44	U
75-00-3	Chloroethane	44	< 44	U
75-09-2	Methylene Chloride	88	< 88	U
67-64-1	Acetone	220	< 220	U
75-15-0	Carbon Disulfide	44	< 44	U
75-35-4	1,1-Dichloroethene	44	< 44	U
75-34-3	1,1-Dichloroethane	44	< 44	U
156-60-5	trans-1,2-Dichloroethene	44	< 44	U
156-59-2	cis-1,2-Dichloroethene	44	31	J
67-66-3	Chloroform	44	< 44	U
107-06-2	1,2-Dichloroethane	44	< 44	U
78-93-3	2-Butanone	220	< 220	U
71-55-6	1,1,1-Trichloroethane	44	< 44	U
56-23-5	Carbon Tetrachloride	44	< 44	U
108-05-4	Vinyl Acetate	220	< 220	U
75-27-4	Bromodichloromethane	44	< 44	U
78-87-5	1,2-Dichloropropane	44	< 44	U
10061-01-5	cis-1,3-Dichloropropene	44	< 44	U
79-01-6	Trichloroethene	44	< 44	U
124-48-1	Dibromochloromethane	44	< 44	U
79-00-5	1,1,2-Trichloroethane	44	< 44	U
71-43-2	Benzene	44	< 44	U
10061-02-6	trans-1,3-Dichloropropene	44	< 44	U
110-75-8	2-Chloroethylvinylether	220	< 220	U
75-25-2	Bromoform	44	< 44	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	220	< 220	U
591-78-6	2-Hexanone	220	< 220	U
127-18-4	Tetrachloroethene	44	380	B
79-34-5	1,1,2,2-Tetrachloroethane	44	< 44	U
108-88-3	Toluene	44	< 44	U
108-90-7	Chlorobenzene	44	< 44	U
100-41-4	Ethylbenzene	44	< 44	U
100-42-5	Styrene	44	< 44	U
75-69-4	Trichlorofluoromethane	44	< 44	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	88	< 88	U
179601-23-1	m,p-Xylene	44	< 44	U
95-47-6	o-Xylene	44	< 44	U
95-50-1	1,2-Dichlorobenzene	44	< 44	U
541-73-1	1,3-Dichlorobenzene	44	< 44	U
106-46-7	1,4-Dichlorobenzene	44	< 44	U
107-02-8	Acrolein	2,200	< 2,200	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-03-0450

REANALYSIS

Lab Sample ID: UG07D

LIMS ID: 12-1372

Matrix: Soil

Date Analyzed: 01/31/12 13:51

QC Report No: UG07-Windward Environmental, LLC

Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	44	< 44	U
74-96-4	Bromoethane	88	< 88	U
107-13-1	Acrylonitrile	220	< 220	U
563-58-6	1,1-Dichloropropene	44	< 44	U
74-95-3	Dibromomethane	44	< 44	U
630-20-6	1,1,1,2-Tetrachloroethane	44	< 44	U
96-12-8	1,2-Dibromo-3-chloropropane	220	< 220	U
96-18-4	1,2,3-Trichloropropane	88	< 88	U
110-57-6	trans-1,4-Dichloro-2-butene	220	< 220	U
108-67-8	1,3,5-Trimethylbenzene	44	< 44	U
95-63-6	1,2,4-Trimethylbenzene	44	< 44	U
87-68-3	Hexachlorobutadiene	220	< 220	U
106-93-4	Ethylene Dibromide	44	< 44	U
74-97-5	Bromochloromethane	44	< 44	U
594-20-7	2,2-Dichloropropane	44	< 44	U
142-28-9	1,3-Dichloropropane	44	< 44	U
98-82-8	Isopropylbenzene	44	< 44	U
103-65-1	n-Propylbenzene	44	< 44	U
108-86-1	Bromobenzene	44	< 44	U
95-49-8	2-Chlorotoluene	44	< 44	U
106-43-4	4-Chlorotoluene	44	< 44	U
98-06-6	tert-Butylbenzene	44	< 44	U
135-98-8	sec-Butylbenzene	44	< 44	U
99-87-6	4-Isopropyltoluene	44	< 44	U
104-51-8	n-Butylbenzene	44	< 44	U
120-82-1	1,2,4-Trichlorobenzene	220	< 220	U
91-20-3	Naphthalene	220	< 220	U
87-61-6	1,2,3-Trichlorobenzene	220	< 220	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	102%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	104%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-03-0555
SAMPLE

Lab Sample ID: UG07E
LIMS ID: 12-1373
Matrix: Soil
Data Release Authorized: *R*
Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/27/12
Date Received: 01/27/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 17:40

Sample Amount: 110 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	45	< 45	U
74-83-9	Bromomethane	45	< 45	U
75-01-4	Vinyl Chloride	45	< 45	U
75-00-3	Chloroethane	45	< 45	U
75-09-2	Methylene Chloride	91	< 91	U
67-64-1	Acetone	230	< 230	U
75-15-0	Carbon Disulfide	45	< 45	U
75-35-4	1,1-Dichloroethene	45	< 45	U
75-34-3	1,1-Dichloroethane	45	< 45	U
156-60-5	trans-1,2-Dichloroethene	45	< 45	U
156-59-2	cis-1,2-Dichloroethene	45	130	
67-66-3	Chloroform	45	< 45	U
107-06-2	1,2-Dichloroethane	45	< 45	U
78-93-3	2-Butanone	230	< 230	U
71-55-6	1,1,1-Trichloroethane	45	< 45	U
56-23-5	Carbon Tetrachloride	45	< 45	U
108-05-4	Vinyl Acetate	230	< 230	U
75-27-4	Bromodichloromethane	45	< 45	U
78-87-5	1,2-Dichloropropane	45	< 45	U
10061-01-5	cis-1,3-Dichloropropene	45	< 45	U
79-01-6	Trichloroethene	45	170	
124-48-1	Dibromochloromethane	45	< 45	U
79-00-5	1,1,2-Trichloroethane	45	< 45	U
71-43-2	Benzene	45	< 45	U
10061-02-6	trans-1,3-Dichloropropene	45	< 45	U
110-75-8	2-Chloroethylvinylether	230	< 230	U
75-25-2	Bromoform	45	< 45	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	230	< 230	U
591-78-6	2-Hexanone	230	< 230	U
127-18-4	Tetrachloroethene	45	1,900	B
79-34-5	1,1,2,2-Tetrachloroethane	45	< 45	U
108-88-3	Toluene	45	< 45	U
108-90-7	Chlorobenzene	45	< 45	U
100-41-4	Ethylbenzene	45	< 45	U
100-42-5	Styrene	45	< 45	U
75-69-4	Trichlorofluoromethane	45	< 45	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	91	< 91	U
179601-23-1	m,p-Xylene	45	< 45	U
95-47-6	o-Xylene	45	< 45	U
95-50-1	1,2-Dichlorobenzene	45	< 45	U
541-73-1	1,3-Dichlorobenzene	45	< 45	U
106-46-7	1,4-Dichlorobenzene	45	< 45	U
107-02-8	Acrolein	2,300	< 2,300	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0555
SAMPLE

Lab Sample ID: UG07E

QC Report No: UG07-Windward Environmental, LLC
Project: ALSKO Dexter

LIMS ID: 12-1373

Matrix: Soil

Date Analyzed: 01/31/12 17:40

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	45	< 45	U
74-96-4	Bromoethane	91	< 91	U
107-13-1	Acrylonitrile	230	< 230	U
563-58-6	1,1-Dichloropropene	45	< 45	U
74-95-3	Dibromomethane	45	< 45	U
630-20-6	1,1,2-Tetrachloroethane	45	< 45	U
96-12-8	1,2-Dibromo-3-chloropropane	230	< 230	U
96-18-4	1,2,3-Trichloropropane	91	< 91	U
110-57-6	trans-1,4-Dichloro-2-butene	230	< 230	U
108-67-8	1,3,5-Trimethylbenzene	45	< 45	U
95-63-6	1,2,4-Trimethylbenzene	45	< 45	U
87-68-3	Hexachlorobutadiene	230	< 230	U
106-93-4	Ethylene Dibromide	45	< 45	U
74-97-5	Bromochloromethane	45	< 45	U
594-20-7	2,2-Dichloropropane	45	< 45	U
142-28-9	1,3-Dichloropropane	45	< 45	U
98-82-8	Isopropylbenzene	45	< 45	U
103-65-1	n-Propylbenzene	45	< 45	U
108-86-1	Bromobenzene	45	< 45	U
95-49-8	2-Chlorotoluene	45	< 45	U
106-43-4	4-Chlorotoluene	45	< 45	U
98-06-6	tert-Butylbenzene	45	< 45	U
135-98-8	sec-Butylbenzene	45	< 45	U
99-87-6	4-Isopropyltoluene	45	< 45	U
104-51-8	n-Butylbenzene	45	< 45	U
120-82-1	1,2,4-Trichlorobenzene	230	< 230	U
91-20-3	Naphthalene	230	< 230	U
87-61-6	1,2,3-Trichlorobenzene	230	< 230	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.8%
d8-Toluene	100%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-03-0645
SAMPLE

Lab Sample ID: UG07F

QC Report No: UG07-Windward Environmental, LLC
Project: ALSKO Dexter

LIMS ID: 12-1374

Matrix: Soil

Data Release Authorized:

Date Sampled: 01/27/12

Reported: 02/02/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Sample Amount: 6.09 g-dry-wt

Date Analyzed: 01/31/12 16:15

Purge Volume: 5.0 mL

Moisture: 6.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.6	9.8	B
67-64-1	Acetone	4.1	40	
75-15-0	Carbon Disulfide	0.8	1.6	
75-35-4	1,1-Dichloroethene	0.8	< 0.8	U
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	< 0.8	U
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	4.1	4.1	
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	4.1	< 4.1	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	< 0.8	U
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	4.1	< 4.1	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.1	< 4.1	U
591-78-6	2-Hexanone	4.1	< 4.1	U
127-18-4	Tetrachloroethene	0.8	< 0.8	U
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	< 0.8	U
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.6	< 1.6	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	41	< 41	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0645
SAMPLE

Lab Sample ID: UG07F

LIMS ID: 12-1374

Matrix: Soil

Date Analyzed: 01/31/12 16:15

QC Report No: UG07-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.6	< 1.6	U
107-13-1	Acrylonitrile	4.1	< 4.1	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.1	< 4.1	U
96-18-4	1,2,3-Trichloropropane	1.6	< 1.6	U
110-57-6	trans-1,4-Dichloro-2-butene	4.1	< 4.1	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	4.1	< 4.1	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	4.1	< 4.1	U
91-20-3	Naphthalene	4.1	< 4.1	U
87-61-6	1,2,3-Trichlorobenzene	4.1	< 4.1	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	100%
Bromofluorobenzene	94.7%
d4-1,2-Dichlorobenzene	110%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0730

SAMPLE

Lab Sample ID: UG07G

LIMS ID: 12-1375

Matrix: Soil

Data Release Authorized: *M*

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSKO Dexter

Date Sampled: 01/27/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 16:57

Sample Amount: 7.00 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 14.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.7	< 0.7	U
74-83-9	Bromomethane	0.7	< 0.7	U
75-01-4	Vinyl Chloride	0.7	< 0.7	U
75-00-3	Chloroethane	0.7	< 0.7	U
75-09-2	Methylene Chloride	1.4	2.0	B
67-64-1	Acetone	3.6	18	
75-15-0	Carbon Disulfide	0.7	8.2	
75-35-4	1,1-Dichloroethene	0.7	< 0.7	U
75-34-3	1,1-Dichloroethane	0.7	< 0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	< 0.7	U
156-59-2	cis-1,2-Dichloroethene	0.7	25	
67-66-3	Chloroform	0.7	< 0.7	U
107-06-2	1,2-Dichloroethane	0.7	< 0.7	U
78-93-3	2-Butanone	3.6	2.6	J
71-55-6	1,1,1-Trichloroethane	0.7	< 0.7	U
56-23-5	Carbon Tetrachloride	0.7	< 0.7	U
108-05-4	Vinyl Acetate	3.6	< 3.6	U
75-27-4	Bromodichloromethane	0.7	< 0.7	U
78-87-5	1,2-Dichloropropane	0.7	< 0.7	U
10061-01-5	cis-1,3-Dichloropropene	0.7	< 0.7	U
79-01-6	Trichloroethene	0.7	8.1	
124-48-1	Dibromochloromethane	0.7	< 0.7	U
79-00-5	1,1,2-Trichloroethane	0.7	< 0.7	U
71-43-2	Benzene	0.7	< 0.7	U
10061-02-6	trans-1,3-Dichloropropene	0.7	< 0.7	U
110-75-8	2-Chloroethylvinylether	3.6	< 3.6	U
75-25-2	Bromoform	0.7	< 0.7	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	3.6	< 3.6	U
591-78-6	2-Hexanone	3.6	< 3.6	U
127-18-4	Tetrachloroethene	0.7	100	B
79-34-5	1,1,2,2-Tetrachloroethane	0.7	< 0.7	U
108-88-3	Toluene	0.7	0.6	J
108-90-7	Chlorobenzene	0.7	< 0.7	U
100-41-4	Ethylbenzene	0.7	< 0.7	U
100-42-5	Styrene	0.7	< 0.7	U
75-69-4	Trichlorofluoromethane	0.7	< 0.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.4	< 1.4	U
179601-23-1	m,p-Xylene	0.7	< 0.7	U
95-47-6	<i>o</i> -Xylene	0.7	< 0.7	U
95-50-1	1,2-Dichlorobenzene	0.7	< 0.7	U
541-73-1	1,3-Dichlorobenzene	0.7	< 0.7	U
106-46-7	1,4-Dichlorobenzene	0.7	< 0.7	U
107-02-8	Acrolein	36	< 36	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0730
SAMPLE

Lab Sample ID: UG07G
LIMS ID: 12-1375
Matrix: Soil
Date Analyzed: 01/31/12 16:57

QC Report No: UG07-Windward Environmental, LLC
Project: ALS CO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.7	< 0.7	U
74-96-4	Bromoethane	1.4	< 1.4	U
107-13-1	Acrylonitrile	3.6	< 3.6	U
563-58-6	1,1-Dichloropropene	0.7	< 0.7	U
74-95-3	Dibromomethane	0.7	< 0.7	U
630-20-6	1,1,1,2-Tetrachloroethane	0.7	< 0.7	U
96-12-8	1,2-Dibromo-3-chloropropane	3.6	< 3.6	U
96-18-4	1,2,3-Trichloropropane	1.4	< 1.4	U
110-57-6	trans-1,4-Dichloro-2-butene	3.6	< 3.6	U
108-67-8	1,3,5-Trimethylbenzene	0.7	< 0.7	U
95-63-6	1,2,4-Trimethylbenzene	0.7	< 0.7	U
87-68-3	Hexachlorobutadiene	3.6	< 3.6	U
106-93-4	Ethylene Dibromide	0.7	< 0.7	U
74-97-5	Bromochloromethane	0.7	< 0.7	U
594-20-7	2,2-Dichloropropane	0.7	< 0.7	U
142-28-9	1,3-Dichloropropane	0.7	< 0.7	U
98-82-8	Isopropylbenzene	0.7	< 0.7	U
103-65-1	n-Propylbenzene	0.7	< 0.7	U
108-86-1	Bromobenzene	0.7	< 0.7	U
95-49-8	2-Chlorotoluene	0.7	< 0.7	U
106-43-4	4-Chlorotoluene	0.7	< 0.7	U
98-06-6	tert-Butylbenzene	0.7	< 0.7	U
135-98-8	sec-Butylbenzene	0.7	< 0.7	U
99-87-6	4-Isopropyltoluene	0.7	< 0.7	U
104-51-8	n-Butylbenzene	0.7	< 0.7	U
120-82-1	1,2,4-Trichlorobenzene	3.6	< 3.6	U
91-20-3	Naphthalene	3.6	< 3.6	U
87-61-6	1,2,3-Trichlorobenzene	3.6	< 3.6	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	115%
d8-Toluene	100%
Bromofluorobenzene	93.7%
d4-1,2-Dichlorobenzene	109%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

 QC Report No: UG07-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
UG07A	SB-W-03-0160	Low	107%	100%	96.6%	104%	0
UG07B	SB-W-03-0225	Low	114%	101%	97.4%	106%	0
UG07C	SB-W-03-0315	Med	102%	101%	94.5%	106%	0
MB-013112	Method Blank	Med	98.5%	100%	93.5%	102%	0
LCS-013112	Lab Control	Med	94.0%	100%	98.8%	99.1%	0
LCSD-013112	Lab Control Dup	Med	96.9%	102%	100%	99.3%	0
UG07D	SB-W-03-0450	Low	113%	101%	97.9%	107%	0
UG07DRE	SB-W-03-0450	Med	106%	102%	96.5%	104%	0
UG07E	SB-W-03-0555	Med	94.8%	100%	97.0%	102%	0
UG07EMS	SB-W-03-0555	Med	92.5%	101%	99.2%	99.1%	0
UG07EMSD	SB-W-03-0555	Med	94.0%	101%	98.0%	98.7%	0
UG07F	SB-W-03-0645	Low	116%	100%	94.7%	110%	0
MB-013112	Method Blank	Low	98.5%	100%	93.5%	102%	0
LCS-013112	Lab Control	Low	94.0%	100%	98.8%	99.1%	0
LCSD-013112	Lab Control Dup	Low	96.9%	102%	100%	99.3%	0
UG07G	SB-W-03-0730	Low	115%	100%	93.7%	109%	0

SW8260C	LCS/MB LIMITS		QC LIMITS	
	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 12-1369 to 12-1375

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-03-0555
MATRIX SPIKE

Lab Sample ID: UG07E
LIMS ID: 12-1373
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

Date Sampled: 01/27/12
Date Received: 01/27/12

Instrument/Analyst MS: NT9/PAB
MSD: NT9/PAB
Date Analyzed MS: 01/31/12 18:22
MSD: 01/31/12 18:43

Sample Amount MS: 110 mg-dry-wt
MSD: 110 mg-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 8.8%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 45.3 U	2060	2270	90.7%	2270	2270	100%	9.7%
Bromomethane	< 45.3 U	1490 QB	2270	65.6%	1710 QB	2270	75.3%	13.8%
Vinyl Chloride	< 45.3 U	2160	2270	95.2%	2350	2270	104%	8.4%
Chloroethane	< 45.3 U	2120	2270	93.4%	2330	2270	103%	9.4%
Methylene Chloride	< 90.6 U	1830 B	2270	80.6%	2000 B	2270	88.1%	8.9%
Acetone	< 226 U	10600	11400	93.0%	11200	11400	98.2%	5.5%
Carbon Disulfide	< 45.3 U	1550	2270	68.3%	1500	2270	66.1%	3.3%
1,1-Dichloroethene	< 45.3 U	1660	2270	73.1%	1600	2270	70.5%	3.7%
1,1-Dichloroethane	< 45.3 U	1820	2270	80.2%	1940	2270	85.5%	6.4%
trans-1,2-Dichloroethene	< 45.3 U	2060	2270	90.7%	2220	2270	97.8%	7.5%
cis-1,2-Dichloroethene	131	2210	2270	91.6%	2340	2270	97.3%	5.7%
Chloroform	< 45.3 U	2040	2270	89.9%	2180	2270	96.0%	6.6%
1,2-Dichloroethane	< 45.3 U	2040	2270	89.9%	2160	2270	95.2%	5.7%
2-Butanone	< 226 U	11500	11400	101%	12400	11400	109%	7.5%
1,1,1-Trichloroethane	< 45.3 U	2030	2270	89.4%	2180	2270	96.0%	7.1%
Carbon Tetrachloride	< 45.3 U	1610	2270	70.9%	1740	2270	76.7%	7.8%
Vinyl Acetate	< 226 U	2100	2270	92.5%	2270	2270	100%	7.8%
Bromodichloromethane	< 45.3 U	2100	2270	92.5%	2240	2270	98.7%	6.5%
1,2-Dichloropropane	< 45.3 U	2110	2270	93.0%	2230	2270	98.2%	5.5%
cis-1,3-Dichloropropene	< 45.3 U	2170	2270	95.6%	2310	2270	102%	6.2%
Trichloroethene	174	2170	2270	87.9%	2360	2270	96.3%	8.4%
Dibromochloromethane	< 45.3 U	1760	2270	77.5%	1890	2270	83.3%	7.1%
1,1,2-Trichloroethane	< 45.3 U	2220	2270	97.8%	2380	2270	105%	7.0%
Benzene	< 45.3 U	2110	2270	93.0%	2250	2270	99.1%	6.4%
trans-1,3-Dichloropropene	< 45.3 U	2230	2270	98.2%	2390	2270	105%	6.9%
2-Chloroethylvinylether	< 226 U	2270	2270	100%	2270	2270	100%	0.0%
Bromoform	< 45.3 U	1660	2270	73.1%	1830	2270	80.6%	9.7%
4-Methyl-2-Pentanone (MIBK)	< 226 U	12100	11400	106%	13000	11400	114%	7.2%
2-Hexanone	< 226 U	11300	11400	99.1%	12300	11400	108%	8.5%
Tetrachloroethene	1910 B	3430 B	2270	67.0%	3980 B	2270	91.2%	14.8%
1,1,2,2-Tetrachloroethane	< 45.3 U	2170	2270	95.6%	2370	2270	104%	8.8%
Toluene	< 45.3 U	2060	2270	90.7%	2200	2270	96.9%	6.6%
Chlorobenzene	< 45.3 U	2090	2270	92.1%	2240	2270	98.7%	6.9%
Ethylbenzene	< 45.3 U	2060	2270	90.7%	2250	2270	99.1%	8.8%
Styrene	< 45.3 U	2210	2270	97.4%	2360	2270	104%	6.6%
Trichlorofluoromethane	< 45.3 U	2470	2270	109%	2610	2270	115%	5.5%
1,1,2-Trichloro-1,2,2-trifl	< 90.6 U	2020	2270	89.0%	2210	2270	97.4%	9.0%
m,p-Xylene	< 45.3 U	4310	4550	94.7%	4640	4550	102%	7.4%
o-Xylene	< 45.3 U	2140	2270	94.3%	2290	2270	101%	6.8%
1,2-Dichlorobenzene	< 45.3 U	1980	2270	87.2%	2130	2270	93.8%	7.3%
1,3-Dichlorobenzene	< 45.3 U	1970	2270	86.8%	2110	2270	93.0%	6.9%
1,4-Dichlorobenzene	< 45.3 U	1930	2270	85.0%	2070	2270	91.2%	7.0%
Acrolein	< 2260 U	10900	11400	95.6%	12000	11400	105%	9.6%
Methyl Iodide	< 45.3 U	2250	2270	99.1%	2370	2270	104%	5.2%
Bromoethane	< 90.6 U	2130	2270	93.8%	2220	2270	97.8%	4.1%
Acrylonitrile	< 226 U	2260	2270	99.6%	2440	2270	107%	7.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0555
MATRIX SPIKE

Lab Sample ID: UG07E
LIMS ID: 12-1373
Matrix: Soil

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOO Dexter

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	MSD RPD
1,1-Dichloropropene	< 45.3 U	2010	2270	88.5%	2150	2270	94.7%	6.7%
Dibromomethane	< 45.3 U	2160	2270	95.2%	2320	2270	102%	7.1%
1,1,1,2-Tetrachloroethane	< 45.3 U	2160	2270	95.2%	2330	2270	103%	7.6%
1,2-Dibromo-3-chloropropane	< 226 U	2110	2270	93.0%	2350	2270	104%	10.8%
1,2,3-Trichloropropane	< 90.6 U	2210	2270	97.4%	2420	2270	107%	9.1%
trans-1,4-Dichloro-2-butene	< 226 U	2080	2270	91.6%	2290	2270	101%	9.6%
1,3,5-Trimethylbenzene	< 45.3 U	2030	2270	89.4%	2220	2270	97.8%	8.9%
1,2,4-Trimethylbenzene	< 45.3 U	2000	2270	88.1%	2180	2270	96.0%	8.6%
Hexachlorobutadiene	< 226 U	1890	2270	83.3%	2130	2270	93.8%	11.9%
Ethylene Dibromide	< 45.3 U	2270	2270	100%	2420	2270	107%	6.4%
Bromochloromethane	< 45.3 U	2190	2270	96.5%	2280	2270	100%	4.0%
2,2-Dichloropropane	< 45.3 U	1930	2270	85.0%	2080	2270	91.6%	7.5%
1,3-Dichloropropane	< 45.3 U	2110	2270	93.0%	2280	2270	100%	7.7%
Isopropylbenzene	< 45.3 U	2030	2270	89.4%	2250	2270	99.1%	10.3%
n-Propylbenzene	< 45.3 U	2030	2270	89.4%	2240	2270	98.7%	9.8%
Bromobenzene	< 45.3 U	2010	2270	88.5%	2190	2270	96.5%	8.6%
2-Chlorotoluene	< 45.3 U	1960	2270	86.3%	2150	2270	94.7%	9.2%
4-Chlorotoluene	< 45.3 U	1940	2270	85.5%	2110	2270	93.0%	8.4%
tert-Butylbenzene	< 45.3 U	2030	2270	89.4%	2230	2270	98.2%	9.4%
sec-Butylbenzene	< 45.3 U	2050	2270	90.3%	2280	2270	100%	10.6%
4-Isopropyltoluene	< 45.3 U	2030	2270	89.4%	2230	2270	98.2%	9.4%
n-Butylbenzene	< 45.3 U	1950	2270	85.9%	2150	2270	94.7%	9.8%
1,2,4-Trichlorobenzene	< 226 U	1810 B	2270	79.7%	1960 B	2270	86.3%	8.0%
Naphthalene	< 226 U	2000 B	2270	88.1%	2210 B	2270	97.4%	10.0%
1,2,3-Trichlorobenzene	< 226 U	1870	2270	82.4%	2010	2270	88.5%	7.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0555
MATRIX SPIKE

Lab Sample ID: UG07E

LIMS ID: 12-1373

Matrix: Soil

Data Release Authorized:

J

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

Date Sampled: 01/27/12
Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 01/31/12 18:22

Sample Amount: 110 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	45	---	
74-83-9	Bromomethane	45	---	
75-01-4	Vinyl Chloride	45	---	
75-00-3	Chloroethane	45	---	
75-09-2	Methylene Chloride	91	---	
67-64-1	Acetone	230	---	
75-15-0	Carbon Disulfide	45	---	
75-35-4	1,1-Dichloroethene	45	---	
75-34-3	1,1-Dichloroethane	45	---	
156-60-5	trans-1,2-Dichloroethene	45	---	
156-59-2	cis-1,2-Dichloroethene	45	---	
67-66-3	Chloroform	45	---	
107-06-2	1,2-Dichloroethane	45	---	
78-93-3	2-Butanone	230	---	
71-55-6	1,1,1-Trichloroethane	45	---	
56-23-5	Carbon Tetrachloride	45	---	
108-05-4	Vinyl Acetate	230	---	
75-27-4	Bromodichloromethane	45	---	
78-87-5	1,2-Dichloropropane	45	---	
10061-01-5	cis-1,3-Dichloropropene	45	---	
79-01-6	Trichloroethene	45	---	
124-48-1	Dibromochloromethane	45	---	
79-00-5	1,1,2-Trichloroethane	45	---	
71-43-2	Benzene	45	---	
10061-02-6	trans-1,3-Dichloropropene	45	---	
110-75-8	2-Chloroethylvinylether	230	---	
75-25-2	Bromoform	45	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	230	---	
591-78-6	2-Hexanone	230	---	
127-18-4	Tetrachloroethene	45	---	
79-34-5	1,1,2,2-Tetrachloroethane	45	---	
108-88-3	Toluene	45	---	
108-90-7	Chlorobenzene	45	---	
100-41-4	Ethylbenzene	45	---	
100-42-5	Styrene	45	---	
75-69-4	Trichlorofluoromethane	45	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	91	---	
179601-23-1	m,p-Xylene	45	---	
95-47-6	o-Xylene	45	---	
95-50-1	1,2-Dichlorobenzene	45	---	
541-73-1	1,3-Dichlorobenzene	45	---	
106-46-7	1,4-Dichlorobenzene	45	---	
107-02-8	Acrolein	2,300	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0555
MATRIX SPIKE

Lab Sample ID: UG07E

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOO Dexter

LIMS ID: 12-1373

Matrix: Soil

Date Analyzed: 01/31/12 18:22

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	45	---	
74-96-4	Bromoethane	91	---	
107-13-1	Acrylonitrile	230	---	
563-58-6	1,1-Dichloropropene	45	---	
74-95-3	Dibromomethane	45	---	
630-20-6	1,1,2-Tetrachloroethane	45	---	
96-12-8	1,2-Dibromo-3-chloropropane	230	---	
96-18-4	1,2,3-Trichloropropane	91	---	
110-57-6	trans-1,4-Dichloro-2-butene	230	---	
108-67-8	1,3,5-Trimethylbenzene	45	---	
95-63-6	1,2,4-Trimethylbenzene	45	---	
87-68-3	Hexachlorobutadiene	230	---	
106-93-4	Ethylene Dibromide	45	---	
74-97-5	Bromochloromethane	45	---	
594-20-7	2,2-Dichloropropane	45	---	
142-28-9	1,3-Dichloropropane	45	---	
98-82-8	Isopropylbenzene	45	---	
103-65-1	n-Propylbenzene	45	---	
108-86-1	Bromobenzene	45	---	
95-49-8	2-Chlorotoluene	45	---	
106-43-4	4-Chlorotoluene	45	---	
98-06-6	tert-Butylbenzene	45	---	
135-98-8	sec-Butylbenzene	45	---	
99-87-6	4-Isopropyltoluene	45	---	
104-51-8	n-Butylbenzene	45	---	
120-82-1	1,2,4-Trichlorobenzene	230	---	
91-20-3	Naphthalene	230	---	
87-61-6	1,2,3-Trichlorobenzene	230	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.5%
d8-Toluene	101%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	99.1%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-03-0555

MATRIX SPIKE DUP

Lab Sample ID: UG07E

QC Report No: UG07-Windward Environmental, LLC

LIMS ID: 12-1373

Project: ALS CO Dexter

Matrix: Soil

Data Release Authorized:

Date Sampled: 01/27/12

Reported: 02/02/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB

Sample Amount: 110 mg-dry-wt

Date Analyzed: 01/31/12 18:43

Purge Volume: 5.0 mL

Moisture: 8.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	45	---	
74-83-9	Bromomethane	45	---	
75-01-4	Vinyl Chloride	45	---	
75-00-3	Chloroethane	45	---	
75-09-2	Methylene Chloride	91	---	
67-64-1	Acetone	230	---	
75-15-0	Carbon Disulfide	45	---	
75-35-4	1,1-Dichloroethene	45	---	
75-34-3	1,1-Dichloroethane	45	---	
156-60-5	trans-1,2-Dichloroethene	45	---	
156-59-2	cis-1,2-Dichloroethene	45	---	
67-66-3	Chloroform	45	---	
107-06-2	1,2-Dichloroethane	45	---	
78-93-3	2-Butanone	230	---	
71-55-6	1,1,1-Trichloroethane	45	---	
56-23-5	Carbon Tetrachloride	45	---	
108-05-4	Vinyl Acetate	230	---	
75-27-4	Bromodichloromethane	45	---	
78-87-5	1,2-Dichloropropane	45	---	
10061-01-5	cis-1,3-Dichloropropene	45	---	
79-01-6	Trichloroethene	45	---	
124-48-1	Dibromochloromethane	45	---	
79-00-5	1,1,2-Trichloroethane	45	---	
71-43-2	Benzene	45	---	
10061-02-6	trans-1,3-Dichloropropene	45	---	
110-75-8	2-Chloroethylvinylether	230	---	
75-25-2	Bromoform	45	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	230	---	
591-78-6	2-Hexanone	230	---	
127-18-4	Tetrachloroethene	45	---	
79-34-5	1,1,2,2-Tetrachloroethane	45	---	
108-88-3	Toluene	45	---	
108-90-7	Chlorobenzene	45	---	
100-41-4	Ethylbenzene	45	---	
100-42-5	Styrene	45	---	
75-69-4	Trichlorofluoromethane	45	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	91	---	
179601-23-1	m,p-Xylene	45	---	
95-47-6	o-Xylene	45	---	
95-50-1	1,2-Dichlorobenzene	45	---	
541-73-1	1,3-Dichlorobenzene	45	---	
106-46-7	1,4-Dichlorobenzene	45	---	
107-02-8	Acrolein	2,300	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-03-0555

MATRIX SPIKE DUP

Lab Sample ID: UG07E

LIMS ID: 12-1373

Matrix: Soil

Date Analyzed: 01/31/12 18:43

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	45	---	
74-96-4	Bromoethane	91	---	
107-13-1	Acrylonitrile	230	---	
563-58-6	1,1-Dichloropropene	45	---	
74-95-3	Dibromomethane	45	---	
630-20-6	1,1,1,2-Tetrachloroethane	45	---	
96-12-8	1,2-Dibromo-3-chloropropane	230	---	
96-18-4	1,2,3-Trichloropropane	91	---	
110-57-6	trans-1,4-Dichloro-2-butene	230	---	
108-67-8	1,3,5-Trimethylbenzene	45	---	
95-63-6	1,2,4-Trimethylbenzene	45	---	
87-68-3	Hexachlorobutadiene	230	---	
106-93-4	Ethylene Dibromide	45	---	
74-97-5	Bromochloromethane	45	---	
594-20-7	2,2-Dichloropropane	45	---	
142-28-9	1,3-Dichloropropane	45	---	
98-82-8	Isopropylbenzene	45	---	
103-65-1	n-Propylbenzene	45	---	
108-86-1	Bromobenzene	45	---	
95-49-8	2-Chlorotoluene	45	---	
106-43-4	4-Chlorotoluene	45	---	
98-06-6	tert-Butylbenzene	45	---	
135-98-8	sec-Butylbenzene	45	---	
99-87-6	4-Isopropyltoluene	45	---	
104-51-8	n-Butylbenzene	45	---	
120-82-1	1,2,4-Trichlorobenzene	230	---	
91-20-3	Naphthalene	230	---	
87-61-6	1,2,3-Trichlorobenzene	230	---	

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.0%
d8-Toluene	101%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	98.7%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

LIMS ID: 12-1375

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 01/31/12 09:19

LCSD: 01/31/12 09:40

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	51.2	50.0	102%	49.0	50.0	98.0%	4.4%
Bromomethane	41.6	QB	50.0	83.2%	44.6	QB	7.0%
Vinyl Chloride	56.0	50.0	112%	53.6	50.0	107%	4.4%
Chloroethane	45.0	50.0	90.0%	42.5	50.0	85.0%	5.7%
Methylene Chloride	47.4	B	50.0	94.8%	46.5	B	1.9%
Acetone	247	250	98.8%	258	250	103%	4.4%
Carbon Disulfide	60.3	50.0	121%	56.3	50.0	113%	6.9%
1,1-Dichloroethene	58.6	50.0	117%	54.9	50.0	110%	6.5%
1,1-Dichloroethane	55.6	50.0	111%	45.0	50.0	90.0%	21.1%
trans-1,2-Dichloroethene	55.1	50.0	110%	51.9	50.0	104%	6.0%
cis-1,2-Dichloroethene	53.5	50.0	107%	50.7	50.0	101%	5.4%
Chloroform	52.2	50.0	104%	50.0	50.0	100%	4.3%
1,2-Dichloroethane	46.8	50.0	93.6%	46.2	50.0	92.4%	1.3%
2-Butanone	226	250	90.4%	245	250	98.0%	8.1%
1,1,1-Trichloroethane	54.4	50.0	109%	51.8	50.0	104%	4.9%
Carbon Tetrachloride	45.1	50.0	90.2%	41.7	50.0	83.4%	7.8%
Vinyl Acetate	48.6	50.0	97.2%	49.9	50.0	99.8%	2.6%
Bromodichloromethane	53.5	50.0	107%	51.6	50.0	103%	3.6%
1,2-Dichloropropane	51.1	50.0	102%	49.5	50.0	99.0%	3.2%
cis-1,3-Dichloropropene	54.6	50.0	109%	52.9	50.0	106%	3.2%
Trichloroethene	53.3	50.0	107%	49.9	50.0	99.8%	6.6%
Dibromochloromethane	44.0	50.0	88.0%	42.7	50.0	85.4%	3.0%
1,1,2-Trichloroethane	49.5	50.0	99.0%	50.3	50.0	101%	1.6%
Benzene	52.4	50.0	105%	50.1	50.0	100%	4.5%
trans-1,3-Dichloropropene	54.8	50.0	110%	54.3	50.0	109%	0.9%
2-Chloroethylvinylether	44.2	50.0	88.4%	46.4	50.0	92.8%	4.9%
Bromoform	41.3	50.0	82.6%	40.3	50.0	80.6%	2.5%
4-Methyl-2-Pentanone (MIBK)	231	250	92.4%	257	250	103%	10.7%
2-Hexanone	217	250	86.8%	236	250	94.4%	8.4%
Tetrachloroethene	55.0	B	50.0	110%	51.3	B	7.0%
1,1,2,2-Tetrachloroethane	46.0	50.0	92.0%	46.5	50.0	93.0%	1.1%
Toluene	50.6	50.0	101%	49.5	50.0	99.0%	2.2%
Chlorobenzene	51.2	50.0	102%	48.6	50.0	97.2%	5.2%
Ethylbenzene	52.1	50.0	104%	49.7	50.0	99.4%	4.7%
Styrene	54.0	50.0	108%	52.1	50.0	104%	3.6%
Trichlorofluoromethane	59.6	50.0	119%	55.3	50.0	111%	7.5%
1,1,2-Trichloro-1,2,2-trifluoroethane	59.5	50.0	119%	55.2	50.0	110%	7.5%
m,p-Xylene	107	100	107%	103	100	103%	3.8%
o-Xylene	52.0	50.0	104%	50.2	50.0	100%	3.5%
1,2-Dichlorobenzene	48.9	50.0	97.8%	46.1	50.0	92.2%	5.9%
1,3-Dichlorobenzene	50.1	50.0	100%	47.2	50.0	94.4%	6.0%
1,4-Dichlorobenzene	49.4	50.0	98.8%	46.3	50.0	92.6%	6.5%
Acrolein	230	250	92.0%	246	250	98.4%	6.7%
Methyl Iodide	52.4	50.0	105%	55.8	50.0	112%	6.3%
Bromoethane	54.0	50.0	108%	52.8	50.0	106%	2.2%
Acrylonitrile	45.8	50.0	91.6%	48.8	50.0	97.6%	6.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

LIMS ID: 12-1375

Matrix: Soil

QC Report No: UG07-Windward Environmental, LLC

Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	52.8	50.0	106%	49.6	50.0	99.2%	6.2%
Dibromomethane	48.8	50.0	97.6%	48.8	50.0	97.6%	0.0%
1,1,1,2-Tetrachloroethane	54.4	50.0	109%	52.1	50.0	104%	4.3%
1,2-Dibromo-3-chloropropane	45.7	50.0	91.4%	47.7	50.0	95.4%	4.3%
1,2,3-Trichloropropane	45.3	50.0	90.6%	46.1	50.0	92.2%	1.8%
trans-1,4-Dichloro-2-butene	46.0	50.0	92.0%	46.4	50.0	92.8%	0.9%
1,3,5-Trimethylbenzene	51.3	50.0	103%	48.4	50.0	96.8%	5.8%
1,2,4-Trimethylbenzene	50.8	50.0	102%	47.9	50.0	95.8%	5.9%
Hexachlorobutadiene	52.9	50.0	106%	48.8	50.0	97.6%	8.1%
Ethylene Dibromide	49.3	50.0	98.6%	50.7	50.0	101%	2.8%
Bromochloromethane	51.8	50.0	104%	50.7	50.0	101%	2.1%
2,2-Dichloropropane	54.4	50.0	109%	51.2	50.0	102%	6.1%
1,3-Dichloropropane	47.4	50.0	94.8%	47.0	50.0	94.0%	0.8%
Isopropylbenzene	51.4	50.0	103%	48.5	50.0	97.0%	5.8%
n-Propylbenzene	52.3	50.0	105%	49.1	50.0	98.2%	6.3%
Bromobenzene	48.1	50.0	96.2%	46.0	50.0	92.0%	4.5%
2-Chlorotoluene	48.9	50.0	97.8%	46.4	50.0	92.8%	5.2%
4-Chlorotoluene	49.4	50.0	98.8%	46.5	50.0	93.0%	6.0%
tert-Butylbenzene	50.8	50.0	102%	47.9	50.0	95.8%	5.9%
sec-Butylbenzene	52.8	50.0	106%	49.4	50.0	98.8%	6.7%
4-Isopropyltoluene	53.1	50.0	106%	49.4	50.0	98.8%	7.2%
n-Butylbenzene	53.9	50.0	108%	49.4	50.0	98.8%	8.7%
1,2,4-Trichlorobenzene	50.5 B	50.0	101%	47.2 B	50.0	94.4%	6.8%
Naphthalene	44.3 B	50.0	88.6%	45.7 B	50.0	91.4%	3.1%
1,2,3-Trichlorobenzene	48.0	50.0	96.0%	46.7	50.0	93.4%	2.7%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.0%	96.9%
d8-Toluene	100%	102%
Bromofluorobenzene	98.8%	100%
d4-1,2-Dichlorobenzene	99.1%	99.3%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

LIMS ID: 12-1372

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSKO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 01/31/12 09:19

LCSD: 01/31/12 09:40

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2560	2500	102%	2450	2500	98.0%	4.4%
Bromomethane	2080 QB	2500	83.2%	2230 QB	2500	89.2%	7.0%
Vinyl Chloride	2800	2500	112%	2680	2500	107%	4.4%
Chloroethane	2250	2500	90.0%	2130	2500	85.2%	5.5%
Methylene Chloride	2370 B	2500	94.8%	2330 B	2500	93.2%	1.7%
Acetone	12300	12500	98.4%	12900	12500	103%	4.8%
Carbon Disulfide	3020	2500	121%	2810	2500	112%	7.2%
1,1-Dichloroethene	2930	2500	117%	2740	2500	110%	6.7%
1,1-Dichloroethane	2780	2500	111%	2250	2500	90.0%	21.1%
trans-1,2-Dichloroethene	2760	2500	110%	2600	2500	104%	6.0%
cis-1,2-Dichloroethene	2670	2500	107%	2540	2500	102%	5.0%
Chloroform	2610	2500	104%	2500	2500	100%	4.3%
1,2-Dichloroethane	2340	2500	93.6%	2310	2500	92.4%	1.3%
2-Butanone	11300	12500	90.4%	12200	12500	97.6%	7.7%
1,1,1-Trichloroethane	2720	2500	109%	2590	2500	104%	4.9%
Carbon Tetrachloride	2250	2500	90.0%	2090	2500	83.6%	7.4%
Vinyl Acetate	2430	2500	97.2%	2500	2500	100%	2.8%
Bromodichloromethane	2680	2500	107%	2580	2500	103%	3.8%
1,2-Dichloropropane	2550	2500	102%	2470	2500	98.8%	3.2%
cis-1,3-Dichloropropene	2730	2500	109%	2640	2500	106%	3.4%
Trichloroethene	2670	2500	107%	2500	2500	100%	6.6%
Dibromochloromethane	2200	2500	88.0%	2140	2500	85.6%	2.8%
1,1,2-Trichloroethane	2470	2500	98.8%	2520	2500	101%	2.0%
Benzene	2620	2500	105%	2500	2500	100%	4.7%
trans-1,3-Dichloropropene	2740	2500	110%	2720	2500	109%	0.7%
2-Chloroethylvinylether	2210	2500	88.4%	2320	2500	92.8%	4.9%
Bromoform	2060	2500	82.4%	2020	2500	80.8%	2.0%
4-Methyl-2-Pentanone (MIBK)	11600	12500	92.8%	12900	12500	103%	10.6%
2-Hexanone	10800	12500	86.4%	11800	12500	94.4%	8.8%
Tetrachloroethene	2750 B	2500	110%	2570 B	2500	103%	6.8%
1,1,2,2-Tetrachloroethane	2300	2500	92.0%	2330	2500	93.2%	1.3%
Toluene	2530	2500	101%	2480	2500	99.2%	2.0%
Chlorobenzene	2560	2500	102%	2430	2500	97.2%	5.2%
Ethylbenzene	2600	2500	104%	2490	2500	99.6%	4.3%
Styrene	2700	2500	108%	2610	2500	104%	3.4%
Trichlorofluoromethane	2980	2500	119%	2770	2500	111%	7.3%
1,1,2-Trichloro-1,2,2-trifluoroethane	2980	2500	119%	2760	2500	110%	7.7%
m,p-Xylene	5360	5000	107%	5150	5000	103%	4.0%
o-Xylene	2600	2500	104%	2510	2500	100%	3.5%
1,2-Dichlorobenzene	2440	2500	97.6%	2300	2500	92.0%	5.9%
1,3-Dichlorobenzene	2510	2500	100%	2360	2500	94.4%	6.2%
1,4-Dichlorobenzene	2470	2500	98.8%	2310	2500	92.4%	6.7%
Acrolein	11500	12500	92.0%	12300	12500	98.4%	6.7%
Methyl Iodide	2620	2500	105%	2790	2500	112%	6.3%
Bromoethane	2700	2500	108%	2640	2500	106%	2.2%
Acrylonitrile	2290	2500	91.6%	2440	2500	97.6%	6.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

QC Report No: UG07-Windward Environmental, LLC

LIMS ID: 12-1372

Project: ALSKO Dexter

Matrix: Soil

Analyte	LCS	Spike	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
1,1-Dichloropropene	2640	2500	106%	2480	2500	99.2%
Dibromomethane	2440	2500	97.6%	2440	2500	97.6%
1,1,1,2-Tetrachloroethane	2720	2500	109%	2610	2500	104%
1,2-Dibromo-3-chloropropane	2290	2500	91.6%	2390	2500	95.6%
1,2,3-Trichloropropane	2270	2500	90.8%	2310	2500	92.4%
trans-1,4-Dichloro-2-butene	2300	2500	92.0%	2320	2500	92.8%
1,3,5-Trimethylbenzene	2570	2500	103%	2420	2500	96.8%
1,2,4-Trimethylbenzene	2540	2500	102%	2400	2500	96.0%
Hexachlorobutadiene	2640	2500	106%	2440	2500	97.6%
Ethylene Dibromide	2460	2500	98.4%	2540	2500	102%
Bromochloromethane	2590	2500	104%	2530	2500	101%
2,2-Dichloropropane	2720	2500	109%	2560	2500	102%
1,3-Dichloropropane	2370	2500	94.8%	2350	2500	94.0%
Isopropylbenzene	2570	2500	103%	2430	2500	97.2%
n-Propylbenzene	2610	2500	104%	2460	2500	98.4%
Bromobenzene	2410	2500	96.4%	2300	2500	92.0%
2-Chlorotoluene	2450	2500	98.0%	2320	2500	92.8%
4-Chlorotoluene	2470	2500	98.8%	2320	2500	92.8%
tert-Butylbenzene	2540	2500	102%	2400	2500	96.0%
sec-Butylbenzene	2640	2500	106%	2470	2500	98.8%
4-Isopropyltoluene	2660	2500	106%	2470	2500	98.8%
n-Butylbenzene	2700	2500	108%	2470	2500	98.8%
1,2,4-Trichlorobenzene	2520 B	2500	101%	2360 B	2500	94.4%
Naphthalene	2210 B	2500	88.4%	2280 B	2500	91.2%
1,2,3-Trichlorobenzene	2400	2500	96.0%	2340	2500	93.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.0%	96.9%
d8-Toluene	100%	102%
Bromofluorobenzene	98.8%	100%
d4-1,2-Dichlorobenzene	99.1%	99.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-013112

METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG07-Windward Environmental, LLC

LIMS ID: 12-1375

Project: ALSCO Dexter

Matrix: Soil

Data Release Authorized: *JH*

Date Sampled: NA

Reported: 02/02/12

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 01/31/12 10:01

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	0.6	J
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	0.9	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	0.8	J
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	c-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG07-Windward Environmental, LLC
Project: ALSKO Dexter

LIMS ID: 12-1375

Matrix: Soil

Date Analyzed: 01/31/12 10:01

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	0.5	J
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	100%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

LIMS ID: 12-1372

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/02/12

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 10:01

Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	30	J
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	44	J
67-64-1	Acetone	250	< 250	U
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	42	J
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethylbenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	o-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG07-Windward Environmental, LLC
Project: ALS CO Dexter

LIMS ID: 12-1372

Matrix: Soil

Date Analyzed: 01/31/12 10:01

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	25	J
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	100%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG07H

QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1376

Matrix: Water

Data Release Authorized: *BB*

Date Sampled: 01/27/12

Reported: 02/02/12

Date Received: 01/27/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 18:01

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	0.8	JB
67-64-1	Acetone	10	4.3	J
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

**Sample ID: Trip Blank
SAMPLE**

 Lab Sample ID: UG07H
 LIMS ID: 12-1376
 Matrix: Water
 Date Analyzed: 01/31/12 18:01

 QC Report No: UG07-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

 Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	99.7%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	104%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

 QC Report No: UG07-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-013112	Method Blank	5	98.5%	100%	93.5%	102%	0
LCS-013112	Lab Control	5	94.0%	100%	98.8%	99.1%	0
LCSD-013112	Lab Control Dup	5	96.9%	102%	100%	99.3%	0
UG07H	Trip Blank	5	101%	99.7%	94.8%	104%	0

LCS/MB LIMITS **QC LIMITS**
SW8260C

(DCE) = d4-1,2-Dichloroethane	80-122	80-125
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

 Prep Method: SW5030B
 Log Number Range: 12-1376 to 12-1376

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112

LIMS ID: 12-1376

Matrix: Water

Data Release Authorized: *M*

Reported: 02/02/12

QC Report No: UG07-Windward Environmental, LLC

Project: ALSOCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 01/31/12 09:19

LCSD: 01/31/12 09:40

Sample Amount LCS: 5.00 mL

LCSD: 5.00 mL

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	51.2	50.0	102%	49.0	50.0	98.0%	4.4%
Bromomethane	41.6	QB	50.0	83.2%	44.6	QB	89.2%
Vinyl Chloride	56.0	50.0	112%	53.6	50.0	107%	4.4%
Chloroethane	45.0	50.0	90.0%	42.5	50.0	85.0%	5.7%
Methylene Chloride	47.4	B	50.0	94.8%	46.5	B	93.0%
Acetone	247		250	98.8%	258	250	103%
Carbon Disulfide	60.3		50.0	121%	56.3	50.0	113%
1,1-Dichloroethene	58.6		50.0	117%	54.9	50.0	110%
1,1-Dichloroethane	55.6		50.0	111%	45.0	50.0	90.0%
trans-1,2-Dichloroethene	55.1		50.0	110%	51.9	50.0	104%
cis-1,2-Dichloroethene	53.5		50.0	107%	50.7	50.0	101%
Chloroform	52.2		50.0	104%	50.0	50.0	100%
1,2-Dichloroethane	46.8		50.0	93.6%	46.2	50.0	92.4%
2-Butanone	226		250	90.4%	245	250	98.0%
1,1,1-Trichloroethane	54.4		50.0	109%	51.8	50.0	104%
Carbon Tetrachloride	45.1		50.0	90.2%	41.7	50.0	83.4%
Vinyl Acetate	48.6		50.0	97.2%	49.9	50.0	99.8%
Bromodichloromethane	53.5		50.0	107%	51.6	50.0	103%
1,2-Dichloropropane	51.1		50.0	102%	49.5	50.0	99.0%
cis-1,3-Dichloropropene	54.6		50.0	109%	52.9	50.0	106%
Trichloroethene	53.3		50.0	107%	49.9	50.0	99.8%
Dibromochloromethane	44.0		50.0	88.0%	42.7	50.0	85.4%
1,1,2-Trichloroethane	49.5		50.0	99.0%	50.3	50.0	101%
Benzene	52.4		50.0	105%	50.1	50.0	100%
trans-1,3-Dichloropropene	54.8		50.0	110%	54.3	50.0	109%
2-Chloroethylvinylether	44.2		50.0	88.4%	46.4	50.0	92.8%
Bromoform	41.3		50.0	82.6%	40.3	50.0	80.6%
4-Methyl-2-Pentanone (MIBK)	231		250	92.4%	257	250	103%
2-Hexanone	217		250	86.8%	236	250	94.4%
Tetrachloroethene	55.0	B	50.0	110%	51.3	B	103%
1,1,2,2-Tetrachloroethane	46.0		50.0	92.0%	46.5	50.0	93.0%
Toluene	50.6		50.0	101%	49.5	50.0	99.0%
Chlorobenzene	51.2		50.0	102%	48.6	50.0	97.2%
Ethylbenzene	52.1		50.0	104%	49.7	50.0	99.4%
Styrene	54.0		50.0	108%	52.1	50.0	104%
Trichlorofluoromethane	59.6		50.0	119%	55.3	50.0	111%
1,1,2-Trichloro-1,2,2-trifluoroethane	59.5		50.0	119%	55.2	50.0	110%
m,p-Xylene	107		100	107%	103	100	103%
o-Xylene	52.0		50.0	104%	50.2	50.0	100%
1,2-Dichlorobenzene	48.9		50.0	97.8%	46.1	50.0	92.2%
1,3-Dichlorobenzene	50.1		50.0	100%	47.2	50.0	94.4%
1,4-Dichlorobenzene	49.4		50.0	98.8%	46.3	50.0	92.6%
Acrolein	230		250	92.0%	246	250	98.4%
Methyl Iodide	52.4		50.0	105%	55.8	50.0	112%
Bromoethane	54.0		50.0	108%	52.8	50.0	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112
LIMS ID: 12-1376
Matrix: Water

QC Report No: UG07-Windward Environmental, LLC
Project: ALS CO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	45.8	50.0	91.6%	48.8	50.0	97.6%	6.3%
1,1-Dichloropropene	52.8	50.0	106%	49.6	50.0	99.2%	6.2%
Dibromomethane	48.8	50.0	97.6%	48.8	50.0	97.6%	0.0%
1,1,1,2-Tetrachloroethane	54.4	50.0	109%	52.1	50.0	104%	4.3%
1,2-Dibromo-3-chloropropane	45.7	50.0	91.4%	47.7	50.0	95.4%	4.3%
1,2,3-Trichloropropane	45.3	50.0	90.6%	46.1	50.0	92.2%	1.8%
trans-1,4-Dichloro-2-butene	46.0	50.0	92.0%	46.4	50.0	92.8%	0.9%
1,3,5-Trimethylbenzene	51.3	50.0	103%	48.4	50.0	96.8%	5.8%
1,2,4-Trimethylbenzene	50.8	50.0	102%	47.9	50.0	95.8%	5.9%
Hexachlorobutadiene	52.9	50.0	106%	48.8	50.0	97.6%	8.1%
Ethylene Dibromide	49.3	50.0	98.6%	50.7	50.0	101%	2.8%
Bromochloromethane	51.8	50.0	104%	50.7	50.0	102%	2.1%
2,2-Dichloropropane	54.4	50.0	109%	51.2	50.0	102%	6.1%
1,3-Dichloropropane	47.4	50.0	94.8%	47.0	50.0	94.0%	0.8%
Isopropylbenzene	51.4	50.0	103%	48.5	50.0	97.0%	5.8%
n-Propylbenzene	52.3	50.0	105%	49.1	50.0	98.2%	6.3%
Bromobenzene	48.1	50.0	96.2%	46.0	50.0	92.0%	4.5%
2-Chlorotoluene	48.9	50.0	97.8%	46.4	50.0	92.8%	5.2%
4-Chlorotoluene	49.4	50.0	98.8%	46.5	50.0	93.0%	6.0%
tert-Butylbenzene	50.8	50.0	102%	47.9	50.0	95.8%	5.9%
sec-Butylbenzene	52.8	50.0	106%	49.4	50.0	98.8%	6.7%
4-Isopropyltoluene	53.1	50.0	106%	49.4	50.0	98.8%	7.2%
n-Butylbenzene	53.9	50.0	108%	49.4	50.0	98.8%	8.7%
1,2,4-Trichlorobenzene	50.5 B	50.0	101%	47.2 B	50.0	94.4%	6.8%
Naphthalene	44.3 B	50.0	88.6%	45.7 B	50.0	91.4%	3.1%
1,2,3-Trichlorobenzene	48.0	50.0	96.0%	46.7	50.0	93.4%	2.7%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.0%	96.9%
d8-Toluene	100%	102%
Bromofluorobenzene	98.8%	100%
d4-1,2-Dichlorobenzene	99.1%	99.3%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: MB-013112
METHOD BLANK
Lab Sample ID: MB-013112
LIMS ID: 12-1376
Matrix: Water
Data Release Authorized:
Reported: 02/02/12
QC Report No: UG07-Windward Environmental, LLC
Project: ALSCO Dexter
Date Sampled: NA
Date Received: NA
Instrument/Analyst: NT9/PAB
Date Analyzed: 01/31/12 10:01
Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	0.6	J
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	0.9	J
67-64-1	Acetone	10	< 10	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	0.8	J
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG07-Windward Environmental, LLC
Project: ALSOCO Dexter

LIMS ID: 12-1376

Matrix: Water

Date Analyzed: 01/31/12 10:01

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	0.5	J
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	100%
Bromofluorobenzene	93.5%
d4-1,2-Dichlorobenzene	102%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 6, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: ALSCO Dexter
ARI Job No.: UG19

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) records, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted eleven soil samples, three waters samples, and two trip blanks on January 30, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 0.2°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The soil continuing calibration (CCAL) on February 1, 2012 was outside the 20% control limit high for Trichlorofluoromethane and Methyl Iodide. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

The soil CCAL on February 2, 2012 fell outside the 20% control limit low for Chloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Bromomethane, Methylene Chloride, Acetone, and Naphthalene were present in the soil method blank **MB-020112** at levels that were greater than $\frac{1}{2}$ the reporting limits. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

Methylene Chloride and Naphthalene were present in the soil method blank **MB-020212** at levels that were greater than $\frac{1}{2}$ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

The soil medium level LCS percent recovery of Methylene Chloride fell outside the control limits low for **LCS-020112**. No corrective action was taken.

The soil medium level LCSD percent recoveries of Chloroethane and Methylene Chloride fell outside the control limits low for **LCS-020212**. No corrective action was taken.

Several soil matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits for sample **SB-W-08-0090**. No corrective action is required for matrix QC.

The water CCAL on January 31, 2012 fell outside the 20% control limit low for 2-Chloroethylvinylether and was out high for Carbon Tetrachloride and 1,1,1,2-Tetrachloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.



Analytical Resources, Incorporated

Analytical Chemists and Consultants

The water CCAL on February 1, 2012 was outside the 20% control limit high for Carbon Tetrachloride, Bromodichloromethane, and 1,1,1,2-Tetrachloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Hexachlorobutadiene, 1,2,4-Trichlorobenzene, Naphthalene, and 1,2,3-Trichlorobenzene were present in both water method blanks **MB-013112** and **MB-020112** at levels that were greater than $\frac{1}{2}$ the reporting limits. All detected results associated with these method blanks have been flagged with a "B" qualifier. No further corrective action was taken.

The water LCS and LCSD percent recoveries of Carbon Tetrachloride and 1,1,1,2-Tetrachloroethane were outside the control limits high for **LCS-013112**. No corrective action was taken.

The water LCSD percent recoveries of Bromodichloromethane and 1,2-Dibromo-chloropropane were outside the control limits high for **LCS-013112**. No corrective action was taken.

The water LCS and LCSD percent recoveries of Carbon Tetrachloride, Bromodichloromethane, 1,1,1,2-Tetrachloroethane, and 1,2-Dibromo-3-chloropropane were outside the control limits high for **LCS-020112**. No corrective action was taken.

The water LCSD percent recovery of Bromoform and the LCS percent recovery of Trichlorofluoromethane were outside the control limits high for **LCS-020112**. No corrective action was taken.

Only one VOC vial was provided per **Trip Blank** for analysis. Due to detected results of Tetrachloroethene in the initial analysis, both trip blanks were re-analyzed from the same vials to confirm results. Detected Tetrachloroethene results in the trip blank samples were due to possible contamination in the auto-sampler injection needle. Both sets of results have been reported for review. No further corrective action was taken.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager

-For-

Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UG19

1 of 2

U619 CHAIN-OF-CUSTODY/TEST REQUEST FORM

No. 2878

Project/Client Name: Also Dexter
 Project Number:
 Contact Name: Nate Lewis / Ian Young
 Sampled By: Ian Young

Ship to: APJ
 Attn: Sue Daniels
 Airbill Number: _____
 Shipper: Wind Ward
 Turnaround requested: 5-day
 Form filled out by: T-D

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [jar tag number(s)]
					757421	5201	
01.28.12	1115	SB-W-08-0090	4	SOIL	X	X	Product present
01.28.12	1125	SB-W-08-0155	4	SOIL	X	X	
01.28.12	1150	SB-W-08-0200	3	H2O	X		
01.28.12	1330	SB-W-08-0265	4	SOIL	X	X	
01.28.12	1340	SB-W-08-0380	4	SOIL	X	X	
01.28.12	1405	SB-W-08-0400	3	H2O	X		
01.28.12	1515	SB-W-08-0480	4	SOIL	X	X	
01.28.12	1520	SB-W-08-0480	4	SOIL	X	X	
01.28.12	1630	SB-W-08-0590	4	SOIL	X	X	
01.28.12	—	TRIP BLACK	1	H2O	X		
01.29.12	0915	SB-W-08-0600	3	H2O	X		
01.29.12	1100	SB-W-08-0710	4	SOIL	X	V	
		Total Number of Containers			Purchase Order / Statement of Work #		
					1) Rec'd by:	<u>Taylor Streets</u>	2) Rec'd by:
					Print name:		Laboratory W.O. #:
					Signature:		Condition upon receipt:
					Company:		Date/Time:
							Time of receipt:
							Cooler temperature:
							Received by:

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward
environmental LLC

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Date/Time:
Cooler temperature:	Received by:

To be completed by Laboratory upon sample receipt:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

2879

Project/Client Name: ALSO Dexter
Project Number:
Contact Name: Nate Lewis / Ian Young
Sampled By: Ian Young

Distribution: Native to southern China; yellow retained by Chinese

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Vindward

COC No(s): 2878 79 NA

Assigned ARI Job No UG19

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry). 0.2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID# A0e4UT619

Cooler Accepted by: TS Date: 1/30/12 Time: 1145

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA 1/23/12

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____

Split by: _____

Samples Logged by AV Date: 1/30/12 Time: 1240

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

TB = 2sm (1/28/12)

By: AV

Date 1/30/12

Small Air Bubbles ~2mm • • •	Peabubbles' 2-4 mm • • •	LARGE Air Bubbles > 4 mm • • •	Small → "sm" Peabubbles → "pb" Large → "lg" Headspace → "hs"
------------------------------------	--------------------------------	--------------------------------------	---

Sample ID Cross Reference Report

ARI Job No: UG19

Client: Windward Environmental, LLC

Project Event: N/A

Project Name: Alsco Dexter

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SB-W-08-0090	UG19A	12-1519	Soil	01/28/12 11:15	01/30/12 11:45
2. SB-W-08-0155	UG19B	12-1520	Soil	01/28/12 11:25	01/30/12 11:45
3. SB-W-08-0265	UG19C	12-1521	Soil	01/28/12 13:30	01/30/12 11:45
4. SB-W-08-0380	UG19D	12-1522	Soil	01/28/12 13:40	01/30/12 11:45
5. SB-W-08-0480	UG19E	12-1523	Soil	01/28/12 15:15	01/30/12 11:45
6. SB-W-08-9480	UG19F	12-1524	Soil	01/28/12 15:20	01/30/12 11:45
7. SB-W-08-0590	UG19G	12-1525	Soil	01/28/12 16:30	01/30/12 11:45
8. SB-W-08-0710	UG19H	12-1526	Soil	01/29/12 11:00	01/30/12 11:45
9. SB-W-08-0760	UG19I	12-1527	Soil	01/29/12 11:25	01/30/12 11:45
10. SB-W-06-0900	UG19J	12-1528	Soil	01/29/12 15:15	01/30/12 11:45
11. SB-W-06-0185	UG19K	12-1529	Soil	01/29/12 15:20	01/30/12 11:45
12. SB-W-08-0200	UG19L	12-1530	Water	01/28/12 11:50	01/30/12 11:45
13. SB-W-08-0400	UG19M	12-1531	Water	01/28/12 14:05	01/30/12 11:45
14. SB-W-08-0600	UG19N	12-1532	Water	01/29/12 09:15	01/30/12 11:45
15. Trip Blank	UG19O	12-1533	Water	01/28/12	01/30/12 11:45
16. Trip Blank	UG19P	12-1534	Water	01/29/12	01/30/12 11:45

Printed 01/30/12



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0090
SAMPLE

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/01/12 20:15

Date Sampled: 01/28/12
Date Received: 01/30/12

Sample Amount: 18.9 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 44.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	270	< 270	U
74-83-9	Bromomethane	270	< 270	U
75-01-4	Vinyl Chloride	270	710	
75-00-3	Chloroethane	270	< 270	U
75-09-2	Methylene Chloride	530	< 530	U
67-64-1	Acetone	1,300	2,100	B
75-15-0	Carbon Disulfide	270	< 270	U
75-35-4	1,1-Dichloroethene	270	< 270	U
75-34-3	1,1-Dichloroethane	270	< 270	U
156-60-5	trans-1,2-Dichloroethene	270	220	J
156-59-2	cis-1,2-Dichloroethene	270	7,300	
67-66-3	Chloroform	270	< 270	U
107-06-2	1,2-Dichloroethane	270	< 270	U
78-93-3	2-Butanone	1,300	< 1,300	U
71-55-6	1,1,1-Trichloroethane	270	< 270	U
56-23-5	Carbon Tetrachloride	270	< 270	U
108-05-4	Vinyl Acetate	1,300	< 1,300	U
75-27-4	Bromodichloromethane	270	< 270	U
78-87-5	1,2-Dichloropropane	270	< 270	U
10061-01-5	cis-1,3-Dichloropropene	270	< 270	U
79-01-6	Trichloroethene	270	2,300	
124-48-1	Dibromo-chloromethane	270	< 270	U
79-00-5	1,1,2-Trichloroethane	270	< 270	U
71-43-2	Benzene	270	< 270	U
10061-02-6	trans-1,3-Dichloropropene	270	< 270	U
110-75-8	2-Chloroethylvinylether	1,300	< 1,300	U
75-25-2	Bromoform	270	< 270	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	< 1,300	U
591-78-6	2-Hexanone	1,300	< 1,300	U
127-18-4	Tetrachloroethene	270	9,500	
79-34-5	1,1,2,2-Tetrachloroethane	270	< 270	U
108-88-3	Toluene	270	< 270	U
108-90-7	Chlorobenzene	270	< 270	U
100-41-4	Ethylbenzene	270	< 270	U
100-42-5	Styrene	270	< 270	U
75-69-4	Trichlorofluoromethane	270	< 270	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	530	< 530	U
179601-23-1	m,p-Xylene	270	< 270	U
95-47-6	<i>o</i> -Xylene	270	< 270	U
95-50-1	1,2-Dichlorobenzene	270	< 270	U
541-73-1	1,3-Dichlorobenzene	270	< 270	U
106-46-7	1,4-Dichlorobenzene	270	< 270	U
107-02-8	Acrolein	13,000	< 13,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0090
SAMPLE

Lab Sample ID: UG19A

LIMS ID: 12-1519

Matrix: Soil

Date Analyzed: 02/01/12 20:15

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	270	< 270	U
74-96-4	Bromoethane	530	< 530	U
107-13-1	Acrylonitrile	1,300	< 1,300	U
563-58-6	1,1-Dichloropropene	270	< 270	U
74-95-3	Dibromomethane	270	< 270	U
630-20-6	1,1,1,2-Tetrachloroethane	270	< 270	U
96-12-8	1,2-Dibromo-3-chloropropane	1,300	< 1,300	U
96-18-4	1,2,3-Trichloropropane	530	< 530	U
110-57-6	trans-1,4-Dichloro-2-butene	1,300	< 1,300	U
108-67-8	1,3,5-Trimethylbenzene	270	< 270	U
95-63-6	1,2,4-Trimethylbenzene	270	< 270	U
87-68-3	Hexachlorobutadiene	1,300	< 1,300	U
106-93-4	Ethylene Dibromide	270	< 270	U
74-97-5	Bromochloromethane	270	< 270	U
594-20-7	2,2-Dichloropropane	270	< 270	U
142-28-9	1,3-Dichloropropane	270	< 270	U
98-82-8	Isopropylbenzene	270	< 270	U
103-65-1	n-Propylbenzene	270	< 270	U
108-86-1	Bromobenzene	270	< 270	U
95-49-8	2-Chlorotoluene	270	< 270	U
106-43-4	4-Chlorotoluene	270	< 270	U
98-06-6	tert-Butylbenzene	270	< 270	U
135-98-8	sec-Butylbenzene	270	< 270	U
99-87-6	4-Isopropyltoluene	270	11,000	
104-51-8	n-Butylbenzene	270	< 270	U
120-82-1	1,2,4-Trichlorobenzene	1,300	< 1,300	U
91-20-3	Naphthalene	1,300	< 1,300	U
87-61-6	1,2,3-Trichlorobenzene	1,300	< 1,300	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.8%
d8-Toluene	99.3%
Bromofluorobenzene	97.9%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

 Sample ID: SB-W-08-0155
 SAMPLE

Lab Sample ID: UG19B

QC Report No: UG19-Windward Environmental, LLC

LIMS ID: 12-1520

Project: ALSCO Dexter

Matrix: Soil

 Data Release Authorized: *J*

Date Sampled: 01/28/12

Reported: 02/03/12

Date Received: 01/30/12

Instrument/Analyst: NT9/PAB

Sample Amount: 5.85 g-dry-wt

Date Analyzed: 02/01/12 20:36

Purge Volume: 5.0 mL

Moisture: 12.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	120	
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	3.0	B
67-64-1	Acetone	4.3	5.3	B
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	0.7	J
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	3.9	
156-59-2	cis-1,2-Dichloroethene	0.9	260	E
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	< 4.3	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	110	
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethene	0.9	330	E
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	0.6	J
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	U

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

 Sample ID: SB-W-08-0155
 SAMPLE

 Lab Sample ID: UG19B
 LIMS ID: 12-1520
 Matrix: Soil
 Date Analyzed: 02/01/12 20:36

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	97.6%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0155
REANALYSIS

Lab Sample ID: UG19B
LIMS ID: 12-1520
Matrix: Soil
Data Release Authorized: *R*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/28/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/01/12 14:15

Sample Amount: 95.2 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 12.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	52	< 52	U
74-83-9	Bromomethane	52	< 52	U
75-01-4	Vinyl Chloride	52	36	J
75-00-3	Chloroethane	52	< 52	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	260	< 260	U
75-15-0	Carbon Disulfide	52	< 52	U
75-35-4	1,1-Dichloroethene	52	< 52	U
75-34-3	1,1-Dichloroethane	52	< 52	U
156-60-5	trans-1,2-Dichloroethene	52	< 52	U
156-59-2	cis-1,2-Dichloroethene	52	120	
67-66-3	Chloroform	52	< 52	U
107-06-2	1,2-Dichloroethane	52	< 52	U
78-93-3	2-Butanone	260	< 260	U
71-55-6	1,1,1-Trichloroethane	52	< 52	U
56-23-5	Carbon Tetrachloride	52	< 52	U
108-05-4	Vinyl Acetate	260	< 260	U
75-27-4	Bromodichloromethane	52	< 52	U
78-87-5	1,2-Dichloropropane	52	< 52	U
10061-01-5	cis-1,3-Dichloropropene	52	< 52	U
79-01-6	Trichloroethene	52	73	
124-48-1	Dibromochloromethane	52	< 52	U
79-00-5	1,1,2-Trichloroethane	52	< 52	U
71-43-2	Benzene	52	< 52	U
10061-02-6	trans-1,3-Dichloropropene	52	< 52	U
110-75-8	2-Chloroethylvinylether	260	< 260	U
75-25-2	Bromoform	52	< 52	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	260	< 260	U
591-78-6	2-Hexanone	260	< 260	U
127-18-4	Tetrachloroethene	52	380	
79-34-5	1,1,2,2-Tetrachloroethane	52	< 52	U
108-88-3	Toluene	52	< 52	U
108-90-7	Chlorobenzene	52	< 52	U
100-41-4	Ethylbenzene	52	< 52	U
100-42-5	Styrene	52	< 52	U
75-69-4	Trichlorofluoromethane	52	< 52	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	100	< 100	U
179601-23-1	m,p-Xylene	52	< 52	U
95-47-6	o-Xylene	52	< 52	U
95-50-1	1,2-Dichlorobenzene	52	< 52	U
541-73-1	1,3-Dichlorobenzene	52	< 52	U
106-46-7	1,4-Dichlorobenzene	52	< 52	U
107-02-8	Acrolein	2,600	< 2,600	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0155
REANALYSIS

Lab Sample ID: UG19B
LIMS ID: 12-1520
Matrix: Soil
Date Analyzed: 02/01/12 14:15

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	52	< 52	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	260	< 260	U
563-58-6	1,1-Dichloropropene	52	< 52	U
74-95-3	Dibromomethane	52	< 52	U
630-20-6	1,1,1,2-Tetrachloroethane	52	< 52	U
96-12-8	1,2-Dibromo-3-chloropropane	260	< 260	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	260	< 260	U
108-67-8	1,3,5-Trimethylbenzene	52	< 52	U
95-63-6	1,2,4-Trimethylbenzene	52	< 52	U
87-68-3	Hexachlorobutadiene	260	< 260	U
106-93-4	Ethylene Dibromide	52	< 52	U
74-97-5	Bromochloromethane	52	< 52	U
594-20-7	2,2-Dichloropropane	52	< 52	U
142-28-9	1,3-Dichloropropane	52	< 52	U
98-82-8	Isopropylbenzene	52	< 52	U
103-65-1	n-Propylbenzene	52	< 52	U
108-86-1	Bromobenzene	52	< 52	U
95-49-8	2-Chlorotoluene	52	< 52	U
106-43-4	4-Chlorotoluene	52	< 52	U
98-06-6	tert-Butylbenzene	52	< 52	U
135-98-8	sec-Butylbenzene	52	< 52	U
99-87-6	4-Isopropyltoluene	52	< 52	U
104-51-8	n-Butylbenzene	52	< 52	U
120-82-1	1,2,4-Trichlorobenzene	260	< 260	U
91-20-3	Naphthalene	260	< 260	U
87-61-6	1,2,3-Trichlorobenzene	260	< 260	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.1%
d8-Toluene	98.3%
Bromofluorobenzene	94.4%
d4-1,2-Dichlorobenzene	103%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

 Sample ID: SB-W-08-0265
 SAMPLE

Lab Sample ID: UG19C

LIMS ID: 12-1521

Matrix: Soil

 Data Release Authorized: *B*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 20:58

 Sample Amount: 5.82 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 14.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	3.3	B
67-64-1	Acetone	4.3	5.2	B
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	4.3	
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	< 4.3	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	5.2	
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethene	0.9	240	E
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	0.6	J
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0265
SAMPLE

Lab Sample ID: UG19C
LIMS ID: 12-1521
Matrix: Soil
Date Analyzed: 02/01/12 20:58

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.5%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0265
REANALYSIS

Lab Sample ID: UG19C
LIMS ID: 12-1521
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/28/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/01/12 14:36

Sample Amount: 96.7 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	52	< 52	U
74-83-9	Bromomethane	52	< 52	U
75-01-4	Vinyl Chloride	52	< 52	U
75-00-3	Chloroethane	52	< 52	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	260	< 260	U
75-15-0	Carbon Disulfide	52	< 52	U
75-35-4	1,1-Dichloroethene	52	< 52	U
75-34-3	1,1-Dichloroethane	52	< 52	U
156-60-5	trans-1,2-Dichloroethene	52	< 52	U
156-59-2	cis-1,2-Dichloroethene	52	< 52	U
67-66-3	Chloroform	52	< 52	U
107-06-2	1,2-Dichloroethane	52	< 52	U
78-93-3	2-Butanone	260	< 260	U
71-55-6	1,1,1-Trichloroethane	52	< 52	U
56-23-5	Carbon Tetrachloride	52	< 52	U
108-05-4	Vinyl Acetate	260	< 260	U
75-27-4	Bromodichloromethane	52	< 52	U
78-87-5	1,2-Dichloropropane	52	< 52	U
10061-01-5	cis-1,3-Dichloropropene	52	< 52	U
79-01-6	Trichloroethene	52	< 52	U
124-48-1	Dibromochloromethane	52	< 52	U
79-00-5	1,1,2-Trichloroethane	52	< 52	U
71-43-2	Benzene	52	< 52	U
10061-02-6	trans-1,3-Dichloropropene	52	< 52	U
110-75-8	2-Chloroethylvinylether	260	< 260	U
75-25-2	Bromoform	52	< 52	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	260	< 260	U
591-78-6	2-Hexanone	260	< 260	U
127-18-4	Tetrachloroethene	52	370	
79-34-5	1,1,2,2-Tetrachloroethane	52	< 52	U
108-88-3	Toluene	52	< 52	U
108-90-7	Chlorobenzene	52	< 52	U
100-41-4	Ethylbenzene	52	< 52	U
100-42-5	Styrene	52	< 52	U
75-69-4	Trichlorofluoromethane	52	< 52	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	100	< 100	U
179601-23-1	m,p-Xylene	52	< 52	U
95-47-6	o-Xylene	52	< 52	U
95-50-1	1,2-Dichlorobenzene	52	< 52	U
541-73-1	1,3-Dichlorobenzene	52	< 52	U
106-46-7	1,4-Dichlorobenzene	52	< 52	U
107-02-8	Acrolein	2,600	< 2,600	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0265
REANALYSIS

Lab Sample ID: UG19C
LIMS ID: 12-1521
Matrix: Soil
Date Analyzed: 02/01/12 14:36

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	52	< 52	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	260	< 260	U
563-58-6	1,1-Dichloropropene	52	< 52	U
74-95-3	Dibromomethane	52	< 52	U
630-20-6	1,1,1,2-Tetrachloroethane	52	< 52	U
96-12-8	1,2-Dibromo-3-chloropropane	260	< 260	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	260	< 260	U
108-67-8	1,3,5-Trimethylbenzene	52	< 52	U
95-63-6	1,2,4-Trimethylbenzene	52	< 52	U
87-68-3	Hexachlorobutadiene	260	< 260	U
106-93-4	Ethylene Dibromide	52	< 52	U
74-97-5	Bromochloromethane	52	< 52	U
594-20-7	2,2-Dichloropropane	52	< 52	U
142-28-9	1,3-Dichloropropane	52	< 52	U
98-82-8	Isopropylbenzene	52	< 52	U
103-65-1	n-Propylbenzene	52	< 52	U
108-86-1	Bromobenzene	52	< 52	U
95-49-8	2-Chlorotoluene	52	< 52	U
106-43-4	4-Chlorotoluene	52	< 52	U
98-06-6	tert-Butylbenzene	52	< 52	U
135-98-8	sec-Butylbenzene	52	< 52	U
99-87-6	4-Isopropyltoluene	52	< 52	U
104-51-8	n-Butylbenzene	52	< 52	U
120-82-1	1,2,4-Trichlorobenzene	260	< 260	U
91-20-3	Naphthalene	260	< 260	U
87-61-6	1,2,3-Trichlorobenzene	260	< 260	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	88.5%
d8-Toluene	97.1%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	104%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: SB-W-08-0380
SAMPLE

 Lab Sample ID: UG19D
 LIMS ID: 12-1522
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/28/12
 Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 21:19

 Sample Amount: 5.88 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 16.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.7	3.8	B
67-64-1	Acetone	4.2	5.3	B
75-15-0	Carbon Disulfide	0.8	< 0.8	U
75-35-4	1,1-Dichloroethene	0.8	< 0.8	U
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	1.2	
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	4.2	< 4.2	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	4.2	< 4.2	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloroproppane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	1.9	
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	4.2	< 4.2	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.2	< 4.2	U
591-78-6	2-Hexanone	4.2	< 4.2	U
127-18-4	Tetrachloroethene	0.8	220	E
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	0.6	J
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	42	< 42	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0380
SAMPLE

Lab Sample ID: UG19D
LIMS ID: 12-1522
Matrix: Soil
Date Analyzed: 02/01/12 21:19

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.2	< 4.2	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.2	< 4.2	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.2	< 4.2	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	4.2	< 4.2	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	4.2	< 4.2	U
91-20-3	Naphthalene	4.2	< 4.2	U
87-61-6	1,2,3-Trichlorobenzene	4.2	< 4.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	99.1%
Bromofluorobenzene	99.3%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: SB-W-08-0380
REANALYSIS

 Lab Sample ID: UG19D
 LIMS ID: 12-1522
 Matrix: Soil
 Data Release Authorized: *BB*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/28/12
 Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 14:57

 Sample Amount: 81.5 mg-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 16.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	61	< 61	U
74-83-9	Bromomethane	61	< 61	U
75-01-4	Vinyl Chloride	61	< 61	U
75-00-3	Chloroethane	61	< 61	U
75-09-2	Methylene Chloride	120	< 120	U
67-64-1	Acetone	310	< 310	U
75-15-0	Carbon Disulfide	61	< 61	U
75-35-4	1,1-Dichloroethene	61	< 61	U
75-34-3	1,1-Dichloroethane	61	< 61	U
156-60-5	trans-1,2-Dichloroethene	61	< 61	U
156-59-2	cis-1,2-Dichloroethene	61	< 61	U
67-66-3	Chloroform	61	< 61	U
107-06-2	1,2-Dichloroethane	61	< 61	U
78-93-3	2-Butanone	310	< 310	U
71-55-6	1,1,1-Trichloroethane	61	< 61	U
56-23-5	Carbon Tetrachloride	61	< 61	U
108-05-4	Vinyl Acetate	310	< 310	U
75-27-4	Bromodichloromethane	61	< 61	U
78-87-5	1,2-Dichloropropane	61	< 61	U
10061-01-5	cis-1,3-Dichloropropene	61	< 61	U
79-01-6	Trichloroethene	61	< 61	U
124-48-1	Dibromo-chloromethane	61	< 61	U
79-00-5	1,1,2-Trichloroethane	61	< 61	U
71-43-2	Benzene	61	< 61	U
10061-02-6	trans-1,3-Dichloropropene	61	< 61	U
110-75-8	2-Chloroethylvinylether	310	< 310	U
75-25-2	Bromoform	61	< 61	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	310	< 310	U
591-78-6	2-Hexanone	310	< 310	U
127-18-4	Tetrachloroethene	61	480	
79-34-5	1,1,2,2-Tetrachloroethane	61	< 61	U
108-88-3	Toluene	61	< 61	U
108-90-7	Chlorobenzene	61	< 61	U
100-41-4	Ethylbenzene	61	< 61	U
100-42-5	Styrene	61	< 61	U
75-69-4	Trichlorofluoromethane	61	< 61	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	120	< 120	U
179601-23-1	m,p-Xylene	61	< 61	U
95-47-6	o-Xylene	61	< 61	U
95-50-1	1,2-Dichlorobenzene	61	< 61	U
541-73-1	1,3-Dichlorobenzene	61	< 61	U
106-46-7	1,4-Dichlorobenzene	61	< 61	U
107-02-8	Acrolein	3,100	< 3,100	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0380
REANALYSIS

Lab Sample ID: UG19D
LIMS ID: 12-1522
Matrix: Soil
Date Analyzed: 02/01/12 14:57

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	61	< 61	U
74-96-4	Bromoethane	120	< 120	U
107-13-1	Acrylonitrile	310	< 310	U
563-58-6	1,1-Dichloropropene	61	< 61	U
74-95-3	Dibromomethane	61	< 61	U
630-20-6	1,1,1,2-Tetrachloroethane	61	< 61	U
96-12-8	1,2-Dibromo-3-chloropropane	310	< 310	U
96-18-4	1,2,3-Trichloropropane	120	< 120	U
110-57-6	trans-1,4-Dichloro-2-butene	310	< 310	U
108-67-8	1,3,5-Trimethylbenzene	61	< 61	U
95-63-6	1,2,4-Trimethylbenzene	61	< 61	U
87-68-3	Hexachlorobutadiene	310	< 310	U
106-93-4	Ethylene Dibromide	61	< 61	U
74-97-5	Bromochloromethane	61	< 61	U
594-20-7	2,2-Dichloropropane	61	< 61	U
142-28-9	1,3-Dichloropropane	61	< 61	U
98-82-8	Isopropylbenzene	61	< 61	U
103-65-1	n-Propylbenzene	61	< 61	U
108-86-1	Bromobenzene	61	< 61	U
95-49-8	2-Chlorotoluene	61	< 61	U
106-43-4	4-Chlorotoluene	61	< 61	U
98-06-6	tert-Butylbenzene	61	< 61	U
135-98-8	sec-Butylbenzene	61	< 61	U
99-87-6	4-Isopropyltoluene	61	< 61	U
104-51-8	n-Butylbenzene	61	< 61	U
120-82-1	1,2,4-Trichlorobenzene	310	< 310	U
91-20-3	Naphthalene	310	< 310	U
87-61-6	1,2,3-Trichlorobenzene	310	< 310	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.8%
d8-Toluene	98.3%
Bromofluorobenzene	95.6%
d4-1,2-Dichlorobenzene	104%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

**Sample ID: SB-W-08-0480
SAMPLE**

 Lab Sample ID: UG19E
 LIMS ID: 12-1523
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/28/12
 Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 21:40

 Sample Amount: 5.38 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 7.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.9	8.2	B
67-64-1	Acetone	4.6	20	B
75-15-0	Carbon Disulfide	0.9	10	
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	0.9	J
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.6	4.1	J
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.6	< 4.6	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	0.7	J
124-48-1	Dibromo-chloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	0.5	J
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.6	< 4.6	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.6	< 4.6	U
591-78-6	2-Hexanone	4.6	< 4.6	U
127-18-4	Tetrachloroethene	0.9	25	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	1.3	
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.9	< 1.9	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	<i>o</i> -Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	46	< 46	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-08-0480

SAMPLE

Lab Sample ID: UG19E

LIMS ID: 12-1523

Matrix: Soil

Date Analyzed: 02/01/12 21:40

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.6	< 4.6	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	< 4.6	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.6	< 4.6	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.6	< 4.6	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.6	< 4.6	U
91-20-3	Naphthalene	4.6	< 4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	< 4.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	98.5%
Bromofluorobenzene	96.4%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-08-9480

SAMPLE

Lab Sample ID: UG19F

LIMS ID: 12-1524

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 02/01/12 22:01

Sample Amount: 5.87 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 6.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	3.3	B
67-64-1	Acetone	4.3	15	B
75-15-0	Carbon Disulfide	0.9	8.5	
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	0.5	J
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	3.5	J
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropene	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromo-chloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	0.4	J
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethene	0.9	16	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	0.8	J
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-9480
SAMPLE

Lab Sample ID: UG19F
LIMS ID: 12-1524
Matrix: Soil
Date Analyzed: 02/01/12 22:01

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	99.2%
Bromofluorobenzene	96.3%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**Sample ID: SB-W-08-0590
SAMPLE**

Lab Sample ID: UG19G

LIMS ID: 12-1525

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSOO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 02/02/12 15:06

Sample Amount: 39.3 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 12.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	130	< 130	U
74-83-9	Bromomethane	130	< 130	U
75-01-4	Vinyl Chloride	130	< 130	U
75-00-3	Chloroethane	130	< 130	U
75-09-2	Methylene Chloride	250	< 250	U
67-64-1	Acetone	640	320	J
75-15-0	Carbon Disulfide	130	< 130	U
75-35-4	1,1-Dichloroethene	130	< 130	U
75-34-3	1,1-Dichloroethane	130	< 130	U
156-60-5	trans-1,2-Dichloroethene	130	< 130	U
156-59-2	cis-1,2-Dichloroethene	130	< 130	U
67-66-3	Chloroform	130	< 130	U
107-06-2	1,2-Dichloroethane	130	< 130	U
78-93-3	2-Butanone	640	< 640	U
71-55-6	1,1,1-Trichloroethane	130	< 130	U
56-23-5	Carbon Tetrachloride	130	< 130	U
108-05-4	Vinyl Acetate	640	< 640	U
75-27-4	Bromodichloromethane	130	< 130	U
78-87-5	1,2-Dichloropropane	130	< 130	U
10061-01-5	cis-1,3-Dichloropropene	130	< 130	U
79-01-6	Trichloroethene	130	81	J
124-48-1	Dibromochloromethane	130	< 130	U
79-00-5	1,1,2-Trichloroethane	130	< 130	U
71-43-2	Benzene	130	< 130	U
10061-02-6	trans-1,3-Dichloropropene	130	< 130	U
110-75-8	2-Chloroethylvinylether	640	< 640	U
75-25-2	Bromoform	130	< 130	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	640	< 640	U
591-78-6	2-Hexanone	640	< 640	U
127-18-4	Tetrachloroethene	130	10,000	
79-34-5	1,1,2,2-Tetrachloroethane	130	< 130	U
108-88-3	Toluene	130	< 130	U
108-90-7	Chlorobenzene	130	< 130	U
100-41-4	Ethylbenzene	130	< 130	U
100-42-5	Styrene	130	< 130	U
75-69-4	Trichlorofluoromethane	130	< 130	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	250	< 250	U
179601-23-1	m,p-Xylene	130	< 130	U
95-47-6	o-Xylene	130	< 130	U
95-50-1	1,2-Dichlorobenzene	130	< 130	U
541-73-1	1,3-Dichlorobenzene	130	< 130	U
106-46-7	1,4-Dichlorobenzene	130	< 130	U
107-02-8	Acrolein	6,400	< 6,400	U

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

 Sample ID: SB-W-08-0590
 SAMPLE

 Lab Sample ID: UG19G
 LIMS ID: 12-1525
 Matrix: Soil
 Date Analyzed: 02/02/12 15:06

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	130	< 130	U
74-96-4	Bromoethane	250	< 250	U
107-13-1	Acrylonitrile	640	< 640	U
563-58-6	1,1-Dichloropropene	130	< 130	U
74-95-3	Dibromomethane	130	< 130	U
630-20-6	1,1,1,2-Tetrachloroethane	130	< 130	U
96-12-8	1,2-Dibromo-3-chloropropane	640	< 640	U
96-18-4	1,2,3-Trichloropropane	250	< 250	U
110-57-6	trans-1,4-Dichloro-2-butene	640	< 640	U
108-67-8	1,3,5-Trimethylbenzene	130	< 130	U
95-63-6	1,2,4-Trimethylbenzene	130	< 130	U
87-68-3	Hexachlorobutadiene	640	< 640	U
106-93-4	Ethylene Dibromide	130	< 130	U
74-97-5	Bromochloromethane	130	< 130	U
594-20-7	2,2-Dichloropropane	130	< 130	U
142-28-9	1,3-Dichloropropane	130	< 130	U
98-82-8	Isopropylbenzene	130	< 130	U
103-65-1	n-Propylbenzene	130	< 130	U
108-86-1	Bromobenzene	130	< 130	U
95-49-8	2-Chlorotoluene	130	< 130	U
106-43-4	4-Chlorotoluene	130	< 130	U
98-06-6	tert-Butylbenzene	130	< 130	U
135-98-8	sec-Butylbenzene	130	< 130	U
99-87-6	4-Isopropyltoluene	130	< 130	U
104-51-8	n-Butylbenzene	130	< 130	U
120-82-1	1,2,4-Trichlorobenzene	640	< 640	U
91-20-3	Naphthalene	640	< 640	U
87-61-6	1,2,3-Trichlorobenzene	640	< 640	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	83.0%
d8-Toluene	96.5%
Bromofluorobenzene	93.8%
d4-1,2-Dichlorobenzene	100%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: SB-W-08-0710
SAMPLE

 Lab Sample ID: UG19H
 LIMS ID: 12-1526
 Matrix: Soil
 Data Release Authorized: *JP*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/29/12
 Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/02/12 15:27

 Sample Amount: 25.3 mg-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 6.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	200	< 200	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	200	< 200	U
75-00-3	Chloroethane	200	< 200	U
75-09-2	Methylene Chloride	400	< 400	U
67-64-1	Acetone	990	< 990	U
75-15-0	Carbon Disulfide	200	< 200	U
75-35-4	1,1-Dichloroethene	200	< 200	U
75-34-3	1,1-Dichloroethane	200	< 200	U
156-60-5	trans-1,2-Dichloroethene	200	< 200	U
156-59-2	cis-1,2-Dichloroethene	200	< 200	U
67-66-3	Chloroform	200	< 200	U
107-06-2	1,2-Dichloroethane	200	< 200	U
78-93-3	2-Butanone	990	< 990	U
71-55-6	1,1,1-Trichloroethane	200	< 200	U
56-23-5	Carbon Tetrachloride	200	< 200	U
108-05-4	Vinyl Acetate	990	< 990	U
75-27-4	Bromodichloromethane	200	< 200	U
78-87-5	1,2-Dichloropropane	200	< 200	U
10061-01-5	cis-1,3-Dichloropropene	200	< 200	U
79-01-6	Trichloroethene	200	330	
124-48-1	Dibromochlormethane	200	< 200	U
79-00-5	1,1,2-Trichloroethane	200	< 200	U
71-43-2	Benzene	200	< 200	U
10061-02-6	trans-1,3-Dichloropropene	200	< 200	U
110-75-8	2-Chloroethylvinylether	990	< 990	U
75-25-2	Bromoform	200	< 200	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	990	< 990	U
591-78-6	2-Hexanone	990	< 990	U
127-18-4	Tetrachloroethene	200	9,400	
79-34-5	1,1,2,2-Tetrachloroethane	200	< 200	U
108-88-3	Toluene	200	< 200	U
108-90-7	Chlorobenzene	200	< 200	U
100-41-4	Ethylbenzene	200	< 200	U
100-42-5	Styrene	200	< 200	U
75-69-4	Trichlorofluoromethane	200	< 200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	400	< 400	U
179601-23-1	m,p-Xylene	200	< 200	U
95-47-6	o-Xylene	200	< 200	U
95-50-1	1,2-Dichlorobenzene	200	< 200	U
541-73-1	1,3-Dichlorobenzene	200	< 200	U
106-46-7	1,4-Dichlorobenzene	200	< 200	U
107-02-8	Acrolein	9,900	< 9,900	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0710
SAMPLE

Lab Sample ID: UG19H
LIMS ID: 12-1526
Matrix: Soil
Date Analyzed: 02/02/12 15:27

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	400	< 400	U
107-13-1	Acrylonitrile	990	< 990	U
563-58-6	1,1-Dichloropropene	200	< 200	U
74-95-3	Dibromomethane	200	< 200	U
630-20-6	1,1,1,2-Tetrachloroethane	200	< 200	U
96-12-8	1,2-Dibromo-3-chloropropane	990	< 990	U
96-18-4	1,2,3-Trichloropropane	400	< 400	U
110-57-6	trans-1,4-Dichloro-2-butene	990	< 990	U
108-67-8	1,3,5-Trimethylbenzene	200	< 200	U
95-63-6	1,2,4-Trimethylbenzene	200	< 200	U
87-68-3	Hexachlorobutadiene	990	< 990	U
106-93-4	Ethylene Dibromide	200	< 200	U
74-97-5	Bromochloromethane	200	< 200	U
594-20-7	2,2-Dichloropropane	200	< 200	U
142-28-9	1,3-Dichloropropane	200	< 200	U
98-82-8	Isopropylbenzene	200	< 200	U
103-65-1	n-Propylbenzene	200	< 200	U
108-86-1	Bromobenzene	200	< 200	U
95-49-8	2-Chlorotoluene	200	< 200	U
106-43-4	4-Chlorotoluene	200	< 200	U
98-06-6	tert-Butylbenzene	200	< 200	U
135-98-8	sec-Butylbenzene	200	< 200	U
99-87-6	4-Isopropyltoluene	200	< 200	U
104-51-8	n-Butylbenzene	200	< 200	U
120-82-1	1,2,4-Trichlorobenzene	990	< 990	U
91-20-3	Naphthalene	990	< 990	U
87-61-6	1,2,3-Trichlorobenzene	990	< 990	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.9%
d8-Toluene	97.0%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	99.8%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

**Sample ID: SB-W-08-0760
SAMPLE**

Lab Sample ID: UG19I

LIMS ID: 12-1527

Matrix: Soil

 Data Release Authorized: *JB*

Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

Date Sampled: 01/29/12

Date Received: 01/30/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 02/02/12 15:48

Sample Amount: 5.30 g-dry-wt

Purge Volume: 5.0 mL

Moisture: 11.6%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.9	1.9	B
67-64-1	Acetone	4.7	13	
75-15-0	Carbon Disulfide	0.9	0.6	J
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.7	< 4.7	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.7	< 4.7	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.7	< 4.7	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.7	< 4.7	U
591-78-6	2-Hexanone	4.7	< 4.7	U
127-18-4	Tetrachloroethene	0.9	17	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	< 0.9	U
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.9	< 1.9	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	47	< 47	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: SB-W-08-0760
SAMPLE

 Lab Sample ID: UG19I
 LIMS ID: 12-1527
 Matrix: Soil
 Date Analyzed: 02/02/12 15:48

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.7	< 4.7	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	< 4.7	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.7	< 4.7	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.7	< 4.7	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.7	< 4.7	U
91-20-3	Naphthalene	4.7	< 4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	< 4.7	U

 Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	96.1%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

**Sample ID: SB-W-06-0900
SAMPLE**

 Lab Sample ID: UG19J
 LIMS ID: 12-1528
 Matrix: Soil
 Data Release Authorized: *BB*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/02/12 16:09

 Date Sampled: 01/29/12
 Date Received: 01/30/12

 Sample Amount: 3.73 g-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 30.08

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.3	< 1.3	U
74-83-9	Bromomethane	1.3	< 1.3	U
75-01-4	Vinyl Chloride	1.3	< 1.3	U
75-00-3	Chloroethane	1.3	< 1.3	U
75-09-2	Methylene Chloride	2.7	< 2.7	U
67-64-1	Acetone	6.7	34	
75-15-0	Carbon Disulfide	1.3	1.8	
75-35-4	1,1-Dichloroethene	1.3	< 1.3	U
75-34-3	1,1-Dichloroethane	1.3	< 1.3	U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3	U
67-66-3	Chloroform	1.3	< 1.3	U
107-06-2	1,2-Dichloroethane	1.3	< 1.3	U
78-93-3	2-Butanone	6.7	< 6.7	U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3	U
56-23-5	Carbon Tetrachloride	1.3	< 1.3	U
108-05-4	Vinyl Acetate	6.7	< 6.7	U
75-27-4	Bromodichloromethane	1.3	< 1.3	U
78-87-5	1,2-Dichloropropane	1.3	< 1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3	U
79-01-6	Trichloroethene	1.3	8.1	
124-48-1	Dibromochloromethane	1.3	< 1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3	U
71-43-2	Benzene	1.3	0.9	J
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3	U
110-75-8	2-Chloroethylvinylether	6.7	< 6.7	U
75-25-2	Bromoform	1.3	< 1.3	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.7	< 6.7	U
591-78-6	2-Hexanone	6.7	< 6.7	U
127-18-4	Tetrachloroethene	1.3	58	
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3	U
108-88-3	Toluene	1.3	< 1.3	U
108-90-7	Chlorobenzene	1.3	< 1.3	U
100-41-4	Ethylbenzene	1.3	< 1.3	U
100-42-5	Styrene	1.3	< 1.3	U
75-69-4	Trichlorofluoromethane	1.3	< 1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	2.7	< 2.7	U
179601-23-1	m,p-Xylene	1.3	< 1.3	U
95-47-6	o-Xylene	1.3	< 1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	< 1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	< 1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	< 1.3	U
107-02-8	Acrolein	67	< 67	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0900
SAMPLE

Lab Sample ID: UG19J
LIMS ID: 12-1528
Matrix: Soil
Date Analyzed: 02/02/12 16:09

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.3	< 1.3	U
74-96-4	Bromoethane	2.7	< 2.7	U
107-13-1	Acrylonitrile	6.7	< 6.7	U
563-58-6	1,1-Dichloropropene	1.3	< 1.3	U
74-95-3	Dibromomethane	1.3	< 1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	< 1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	< 6.7	U
96-18-4	1,2,3-Trichloropropane	2.7	< 2.7	U
110-57-6	trans-1,4-Dichloro-2-butene	6.7	< 6.7	U
108-67-8	1,3,5-Trimethylbenzene	1.3	< 1.3	U
95-63-6	1,2,4-Trimethylbenzene	1.3	< 1.3	U
87-68-3	Hexachlorobutadiene	6.7	< 6.7	U
106-93-4	Ethylene Dibromide	1.3	< 1.3	U
74-97-5	Bromochloromethane	1.3	< 1.3	U
594-20-7	2,2-Dichloropropane	1.3	< 1.3	U
142-28-9	1,3-Dichloropropane	1.3	< 1.3	U
98-82-8	Isopropylbenzene	1.3	< 1.3	U
103-65-1	n-Propylbenzene	1.3	< 1.3	U
108-86-1	Bromobenzene	1.3	< 1.3	U
95-49-8	2-Chlorotoluene	1.3	< 1.3	U
106-43-4	4-Chlorotoluene	1.3	< 1.3	U
98-06-6	tert-Butylbenzene	1.3	< 1.3	U
135-98-8	sec-Butylbenzene	1.3	< 1.3	U
99-87-6	4-Isopropyltoluene	1.3	< 1.3	U
104-51-8	n-Butylbenzene	1.3	< 1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.7	< 6.7	U
91-20-3	Naphthalene	6.7	< 6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	< 6.7	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.2%
d8-Toluene	95.1%
Bromofluorobenzene	84.2%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0185
SAMPLE

Lab Sample ID: UG19K
LIMS ID: 12-1529
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/29/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 16:31

Sample Amount: 5.87 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 21.8%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	2.4	B
67-64-1	Acetone	4.3	38	
75-15-0	Carbon Disulfide	0.9	2.1	
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	2.4	J
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	0.8	J
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	0.6	J
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	U

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

 Sample ID: SB-W-06-0185
 SAMPLE

 Lab Sample ID: UG19K
 LIMS ID: 12-1529
 Matrix: Soil
 Date Analyzed: 02/02/12 16:31

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.1%
d8-Toluene	97.0%
Bromofluorobenzene	93.3%
d4-1,2-Dichlorobenzene	101%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT	OUT
MB-020112	Method Blank	Med	93.6%	98.3%	92.0%	105%	0	
LCS-020112	Lab Control	Med	85.9%	99.6%	97.9%	99.4%	0	
LCSD-020112	Lab Control Dup	Med	87.8%	98.1%	97.1%	99.2%	0	
UG19A	SB-W-08-0090	Med	94.8%	99.3%	97.9%	102%	0	
UG19AMS	SB-W-08-0090	Med	92.1%	99.3%	102%	102%	0	
UG19AMSD	SB-W-08-0090	Med	96.8%	97.0%	99.6%	103%	0	
UG19B	SB-W-08-0155	Low	101%	97.6%	96.5%	105%	0	
UG19BRE	SB-W-08-0155	Med	89.1%	98.3%	94.4%	103%	0	
UG19C	SB-W-08-0265	Low	103%	98.5%	99.2%	104%	0	
UG19CRE	SB-W-08-0265	Med	88.5%	97.1%	93.8%	104%	0	
UG19D	SB-W-08-0380	Low	106%	99.1%	99.3%	104%	0	
UG19DRE	SB-W-08-0380	Med	87.8%	98.3%	95.6%	104%	0	
UG19E	SB-W-08-0480	Low	105%	98.5%	96.4%	106%	0	
MB-020112	Method Blank	Low	93.6%	98.3%	92.0%	105%	0	
LCS-020112	Lab Control	Low	85.9%	99.6%	97.9%	99.4%	0	
LCSD-020112	Lab Control Dup	Low	87.8%	98.1%	97.1%	99.2%	0	
UG19F	SB-W-08-9480	Low	102%	99.2%	96.3%	103%	0	
MB-020212	Method Blank	Med	89.8%	96.4%	95.7%	99.8%	0	
LCS-020212	Lab Control	Med	84.6%	96.6%	97.6%	98.4%	0	
LCSD-020212	Lab Control Dup	Med	88.3%	96.5%	99.2%	98.7%	0	
UG19G	SB-W-08-0590	Med	83.0%	96.5%	93.8%	100%	0	
UG19H	SB-W-08-0710	Med	85.9%	97.0%	95.8%	99.8%	0	
MB-020212	Method Blank	Low	89.8%	96.4%	95.7%	99.8%	0	
LCS-020212	Lab Control	Low	84.6%	96.6%	97.6%	98.4%	0	
LCSD-020212	Lab Control Dup	Low	88.3%	96.5%	99.2%	98.7%	0	
UG19I	SB-W-08-0760	Low	101%	96.1%	96.2%	105%	0	
UG19J	SB-W-06-0900	Low	95.2%	95.1%	84.2%	102%	0	
UG19K	SB-W-06-0185	Low	98.1%	97.0%	93.3%	101%	0	

LCS/MB LIMITS

Low	Med
79-121	76-120
80-120	80-120
80-120	80-120
80-120	80-120

QC LIMITS

Low	Med
75-152	69-120
82-115	80-120
64-120	76-128
80-120	80-120

SW8260C

(DCE) = d4-1,2-Dichloroethane

(TOL) = d8-Toluene

(BFB) = Bromofluorobenzene

(DCB) = d4-1,2-Dichlorobenzene

Log Number Range: 12-1519 to 12-1529

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/28/12
Date Received: 01/30/12

Instrument/Analyst MS: NT9/PAB
MSD: NT9/PAB
Date Analyzed MS: 02/01/12 22:23
MSD: 02/01/12 22:44

Sample Amount MS: 18.9 mg-dry-wt
MSD: 18.9 mg-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 44.3%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RFD
Chloromethane	< 265 U	11900	13200	90.2%	11200	13200	84.8%	6.1%
Bromomethane	< 265 U	12200	B	13200	92.4%	11300 B	13200	85.6%
Vinyl Chloride	710	12600	13200	90.1%	11900	13200	84.8%	5.7%
Chloroethane	< 265 U	9610	13200	72.8%	9250	13200	70.1%	3.8%
Methylene Chloride	< 530 U	11700	B	13200	88.6%	11200 B	13200	84.8%
Acetone	2080 B	63700	B	66100	93.2%	70300 B	66100	103%
Carbon Disulfide	< 265 U	12700	13200	96.2%	12100	13200	91.7%	4.8%
1,1-Dichloroethene	< 265 U	12500	13200	94.7%	12100	13200	91.7%	3.3%
1,1-Dichloroethane	< 265 U	12500	13200	94.7%	12200	13200	92.4%	2.4%
trans-1,2-Dichloroethene	223 J	12200	13200	90.7%	11800	13200	87.7%	3.3%
cis-1,2-Dichloroethene	7300	17700	13200	78.8%	19000	13200	88.6%	7.1%
Chloroform	< 265 U	12300	13200	93.2%	12100	13200	91.7%	1.6%
1,2-Dichloroethane	< 265 U	12700	13200	96.2%	13000	13200	98.5%	2.3%
2-Butanone	< 1330 U	58700	66100	88.8%	64300	66100	97.3%	9.1%
1,1,1-Trichloroethane	< 265 U	11800	13200	89.4%	11700	13200	88.6%	0.9%
Carbon Tetrachloride	< 265 U	9990	13200	75.7%	9980	13200	75.6%	0.1%
Vinyl Acetate	< 1330 U	12300	13200	93.2%	13200	13200	100%	7.1%
Bromodichloromethane	< 265 U	13700	13200	104%	13700	13200	104%	0.0%
1,2-Dichloropropane	< 265 U	13300	13200	101%	13100	13200	99.2%	1.5%
cis-1,3-Dichloropropene	< 265 U	14000	13200	106%	13800	13200	105%	1.4%
Trichloroethene	2280	14200	13200	90.3%	14300	13200	91.1%	0.7%
Dibromochloromethane	< 265 U	11600	13200	87.9%	12000	13200	90.9%	3.4%
1,1,2-Trichloroethane	< 265 U	13700	13200	104%	13700	13200	104%	0.0%
Benzene	< 265 U	13100	13200	99.2%	12600	13200	95.5%	3.9%
trans-1,3-Dichloropropene	< 265 U	14300	13200	108%	14200	13200	108%	0.7%
2-Chloroethylvinylether	< 1330 U	11600	13200	87.9%	13800	13200	105%	17.3%
Bromoform	< 265 U	10800	13200	81.8%	11800	13200	89.4%	8.8%
4-Methyl-2-Pentanone (MIBK)	< 1330 U	66600	66100	101%	70400	66100	107%	5.5%
2-Hexanone	< 1330 U	64100	66100	97.0%	72500	66100	110%	12.3%
Tetrachloroethene	9500	18400	13200	67.4%	20900	13200	86.4%	12.7%
1,1,2,2-Tetrachloroethane	< 265 U	13800	13200	105%	15400	13200	117%	11.0%
Toluene	< 265 U	12600	13200	95.5%	12000	13200	90.9%	4.9%
Chlorobenzene	< 265 U	12700	13200	96.2%	12600	13200	95.5%	0.8%
Ethylbenzene	< 265 U	12500	13200	94.7%	12300	13200	93.2%	1.6%
Styrene	< 265 U	13700	13200	104%	13000	13200	98.5%	5.2%
Trichlorofluoromethane	< 265 U	12700	Q	13200	96.2%	12000 Q	13200	90.9%
1,1,2-Trichloro-1,2,2-trifl	< 530 U	11900	13200	90.2%	11400	13200	86.4%	4.3%
m,p-Xylene	< 265 U	25800	26500	97.4%	25200	26500	95.1%	2.4%
c-Xylene	< 265 U	13000	13200	98.5%	12800	13200	97.0%	1.6%
1,2-Dichlorobenzene	< 265 U	13000	13200	98.5%	13400	13200	102%	3.0%
1,3-Dichlorobenzene	< 265 U	12300	13200	93.2%	12600	13200	95.5%	2.4%
1,4-Dichlorobenzene	< 265 U	12200	13200	92.4%	12500	13200	94.7%	2.4%
Acrolein	< 13300 U	58000	66100	87.7%	64300	66100	97.3%	10.3%
Methyl Iodide	< 265 U	15800	Q	13200	120%	16200 Q	13200	123%
Bromoethane	< 530 U	12700	13200	96.2%	12300	13200	93.2%	3.2%
Acrylonitrile	< 1330 U	11600	13200	87.9%	12700	13200	96.2%	9.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	Sample	MS	Spike	MS	Spike	MSD	MSD	RPD
			Added-MS	Recovery	Added-MSD	Recovery		
1,1-Dichloropropene	< 265 U	12000	13200	90.9%	11800	13200	89.4%	1.7%
Dibromomethane	< 265 U	13400	13200	102%	13600	13200	103%	1.5%
1,1,1,2-Tetrachloroethane	< 265 U	14100	13200	107%	14100	13200	107%	0.0%
1,2-Dibromo-3-chloropropane	< 1330 U	14000	13200	106%	16100	13200	122%	14.0%
1,2,3-Trichloropropane	< 530 U	13000	13200	98.5%	14700	13200	111%	12.3%
trans-1,4-Dichloro-2-butene	< 1330 U	12800	13200	97.0%	14600	13200	111%	13.1%
1,3,5-Trimethylbenzene	< 265 U	12500	13200	94.7%	12700	13200	96.2%	1.6%
1,2,4-Trimethylbenzene	< 265 U	12600	13200	95.5%	12700	13200	96.2%	0.8%
Hexachlorobutadiene	< 1330 U	12800	13200	97.0%	12700	13200	96.2%	0.8%
Ethylene Dibromide	< 265 U	13600	13200	103%	13900	13200	105%	2.2%
Bromochloromethane	< 265 U	12800	13200	97.0%	12800	13200	97.0%	0.0%
2,2-Dichloropropane	< 265 U	11200	13200	84.8%	11200	13200	84.8%	0.0%
1,3-Dichloropropane	< 265 U	13000	13200	98.5%	13600	13200	103%	4.5%
Isopropylbenzene	< 265 U	12200	13200	92.4%	12500	13200	94.7%	2.4%
n-Propylbenzene	< 265 U	12200	13200	92.4%	12400	13200	93.9%	1.6%
Bromobenzene	< 265 U	12400	13200	93.9%	12900	13200	97.7%	4.0%
2-Chlorotoluene	< 265 U	11800	13200	89.4%	12400	13200	93.9%	5.0%
4-Chlorotoluene	< 265 U	11800	13200	89.4%	12200	13200	92.4%	3.3%
tert-Butylbenzene	< 265 U	12300	13200	93.2%	12500	13200	94.7%	1.6%
sec-Butylbenzene	< 265 U	12400	13200	93.9%	12600	13200	95.5%	1.6%
4-Isopropyltoluene	10800	20400	13200	72.7%	23500	13200	96.2%	14.1%
n-Butylbenzene	< 265 U	12000	13200	90.9%	12300	13200	93.2%	2.5%
1,2,4-Trichlorobenzene	< 1330 U	12200	13200	92.4%	12400	13200	93.9%	1.6%
Naphthalene	< 1330 U	13400 B	13200	102%	14800 B	13200	112%	9.9%
1,2,3-Trichlorobenzene	< 1330 U	12800	13200	97.0%	13200	13200	100%	3.1%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil
Data Release Authorized: *R*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/28/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/01/12 22:23

Sample Amount: 18.9 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 44.3%

CAS Number	Analyte	RL	Result Q
74-87-3	Chloromethane	260	---
74-83-9	Bromomethane	260	---
75-01-4	Vinyl Chloride	260	---
75-00-3	Chloroethane	260	---
75-09-2	Methylene Chloride	530	---
67-64-1	Acetone	1,300	---
75-15-0	Carbon Disulfide	260	---
75-35-4	1,1-Dichloroethene	260	---
75-34-3	1,1-Dichloroethane	260	---
156-60-5	trans-1,2-Dichloroethene	260	---
156-59-2	cis-1,2-Dichloroethene	260	---
67-66-3	Chloroform	260	---
107-06-2	1,2-Dichloroethane	260	---
78-93-3	2-Butanone	1,300	---
71-55-6	1,1,1-Trichloroethane	260	---
56-23-5	Carbon Tetrachloride	260	---
108-05-4	Vinyl Acetate	1,300	---
75-27-4	Bromodichloromethane	260	---
78-87-5	1,2-Dichloropropane	260	---
10061-01-5	cis-1,3-Dichloropropene	260	---
79-01-6	Trichloroethene	260	---
124-48-1	Dibromochloromethane	260	---
79-00-5	1,1,2-Trichloroethane	260	---
71-43-2	Benzene	260	---
10061-02-6	trans-1,3-Dichloropropene	260	---
110-75-8	2-Chloroethylvinylether	1,300	---
75-25-2	Bromoform	260	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	---
591-78-6	2-Hexanone	1,300	---
127-18-4	Tetrachloroethene	260	---
79-34-5	1,1,2,2-Tetrachloroethane	260	---
108-88-3	Toluene	260	---
108-90-7	Chlorobenzene	260	---
100-41-4	Ethylbenzene	260	---
100-42-5	Styrene	260	---
75-69-4	Trichlorofluoromethane	260	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	530	---
179601-23-1	m,p-Xylene	260	---
95-47-6	o-Xylene	260	---
95-50-1	1,2-Dichlorobenzene	260	---
541-73-1	1,3-Dichlorobenzene	260	---
106-46-7	1,4-Dichlorobenzene	260	---
107-02-8	Acrolein	13,000	---

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil
Date Analyzed: 02/01/12 22:23

QC Report No: UG19-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	260	---	
74-96-4	Bromoethane	530	---	
107-13-1	Acrylonitrile	1,300	---	
563-58-6	1,1-Dichloropropene	260	---	
74-95-3	Dibromomethane	260	---	
630-20-6	1,1,1,2-Tetrachloroethane	260	---	
96-12-8	1,2-Dibromo-3-chloropropane	1,300	---	
96-18-4	1,2,3-Trichloropropane	530	---	
110-57-6	trans-1,4-Dichloro-2-butene	1,300	---	
108-67-8	1,3,5-Trimethylbenzene	260	---	
95-63-6	1,2,4-Trimethylbenzene	260	---	
87-68-3	Hexachlorobutadiene	1,300	---	
106-93-4	Ethylene Dibromide	260	---	
74-97-5	Bromochloromethane	260	---	
594-20-7	2,2-Dichloropropane	260	---	
142-28-9	1,3-Dichloropropane	260	---	
98-82-8	Isopropylbenzene	260	---	
103-65-1	n-Propylbenzene	260	---	
108-86-1	Bromobenzene	260	---	
95-49-8	2-Chlorotoluene	260	---	
106-43-4	4-Chlorotoluene	260	---	
98-06-6	tert-Butylbenzene	260	---	
135-98-8	sec-Butylbenzene	260	---	
99-87-6	4-Isopropyltoluene	260	---	
104-51-8	n-Butylbenzene	260	---	
120-82-1	1,2,4-Trichlorobenzene	1,300	---	
91-20-3	Naphthalene	1,300	---	
87-61-6	1,2,3-Trichlorobenzene	1,300	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.1%
d8-Toluene	99.3%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE DUP

 Lab Sample ID: UG19A
 LIMS ID: 12-1519
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

 Date Sampled: 01/28/12
 Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 22:44

 Sample Amount: 18.9 mg-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 44.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	260	---	
74-83-9	Bromomethane	260	---	
75-01-4	Vinyl Chloride	260	---	
75-00-3	Chloroethane	260	---	
75-09-2	Methylene Chloride	530	---	
67-64-1	Acetone	1,300	---	
75-15-0	Carbon Disulfide	260	---	
75-35-4	1,1-Dichloroethene	260	---	
75-34-3	1,1-Dichloroethane	260	---	
156-60-5	trans-1,2-Dichloroethene	260	---	
156-59-2	cis-1,2-Dichloroethene	260	---	
67-66-3	Chloroform	260	---	
107-06-2	1,2-Dichloroethane	260	---	
78-93-3	2-Butanone	1,300	---	
71-55-6	1,1,1-Trichloroethane	260	---	
56-23-5	Carbon Tetrachloride	260	---	
108-05-4	Vinyl Acetate	1,300	---	
75-27-4	Bromodichloromethane	260	---	
78-87-5	1,2-Dichloropropane	260	---	
10061-01-5	cis-1,3-Dichloropropene	260	---	
79-01-6	Trichloroethene	260	---	
124-48-1	Dibromochloromethane	260	---	
79-00-5	1,1,2-Trichloroethane	260	---	
71-43-2	Benzene	260	---	
10061-02-6	trans-1,3-Dichloropropene	260	---	
110-75-8	2-Chloroethylvinylether	1,300	---	
75-25-2	Bromoform	260	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	---	
591-78-6	2-Hexanone	1,300	---	
127-18-4	Tetrachloroethene	260	---	
79-34-5	1,1,2,2-Tetrachloroethane	260	---	
108-88-3	Toluene	260	---	
108-90-7	Chlorobenzene	260	---	
100-41-4	Ethylbenzene	260	---	
100-42-5	Styrene	260	---	
75-69-4	Trichlorofluoromethane	260	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	530	---	
179601-23-1	m,p-Xylene	260	---	
95-47-6	o-Xylene	260	---	
95-50-1	1,2-Dichlorobenzene	260	---	
541-73-1	1,3-Dichlorobenzene	260	---	
106-46-7	1,4-Dichlorobenzene	260	---	
107-02-8	Acrolein	13,000	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0090
MATRIX SPIKE DUP

Lab Sample ID: UG19A
LIMS ID: 12-1519
Matrix: Soil
Date Analyzed: 02/01/12 22:44

QC Report No: UG19-Windward Environmental, LLC
Project: ALSO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	260	---	
74-96-4	Bromoethane	530	---	
107-13-1	Acrylonitrile	1,300	---	
563-58-6	1,1-Dichloropropene	260	---	
74-95-3	Dibromomethane	260	---	
630-20-6	1,1,1,2-Tetrachloroethane	260	---	
96-12-8	1,2-Dibromo-3-chloropropane	1,300	---	
96-18-4	1,2,3-Trichloropropane	530	---	
110-57-6	trans-1,4-Dichloro-2-butene	1,300	---	
108-67-8	1,3,5-Trimethylbenzene	260	---	
95-63-6	1,2,4-Trimethylbenzene	260	---	
87-68-3	Hexachlorobutadiene	1,300	---	
106-93-4	Ethylene Dibromide	260	---	
74-97-5	Bromochloromethane	260	---	
594-20-7	2,2-Dichloropropane	260	---	
142-28-9	1,3-Dichloropropane	260	---	
98-82-8	Isopropylbenzene	260	---	
103-65-1	n-Propylbenzene	260	---	
108-86-1	Bromobenzene	260	---	
95-49-8	2-Chlorotoluene	260	---	
106-43-4	4-Chlorotoluene	260	---	
98-06-6	tert-Butylbenzene	260	---	
135-98-8	sec-Butylbenzene	260	---	
99-87-6	4-Isopropyltoluene	260	---	
104-51-8	n-Butylbenzene	260	---	
120-82-1	1,2,4-Trichlorobenzene	1,300	---	
91-20-3	Naphthalene	1,300	---	
87-61-6	1,2,3-Trichlorobenzene	1,300	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.8%
d8-Toluene	97.0%
Bromofluorobenzene	99.6%
d4-1,2-Dichlorobenzene	103%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112
LIMS ID: 12-1524
Matrix: Soil
Data Release Authorized: *A*
Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT9/PAB
LCSD: NT9/PAB
Date Analyzed LCS: 02/01/12 11:46
LCSD: 02/01/12 12:08

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	50.9	50.0	102%	47.4	50.0	94.8%	7.1%
Bromomethane	46.8	B	50.0	44.2	B	50.0	88.4%
Vinyl Chloride	52.2	50.0	104%	51.2	50.0	102%	1.9%
Chloroethane	41.5	50.0	83.0%	39.3	50.0	78.6%	5.4%
Methylene Chloride	39.8	B	50.0	79.6%	B	50.0	83.2%
Acetone	224	B	250	89.6%	235	B	94.0%
Carbon Disulfide	55.9	50.0	112%	54.2	50.0	108%	3.1%
1,1-Dichloroethene	54.9	50.0	110%	53.9	50.0	108%	1.8%
1,1-Dichloroethane	47.8	50.0	95.6%	44.1	50.0	88.2%	8.1%
trans-1,2-Dichloroethene	47.2	50.0	94.4%	49.1	50.0	98.2%	3.9%
cis-1,2-Dichloroethene	46.0	50.0	92.0%	45.8	50.0	91.6%	0.4%
Chloroform	45.4	50.0	90.8%	45.5	50.0	91.0%	0.2%
1,2-Dichloroethane	43.4	50.0	86.8%	44.9	50.0	89.8%	3.4%
2-Butanone	215	250	86.0%	223	250	89.2%	3.7%
1,1,1-Trichloroethane	48.6	50.0	97.2%	48.5	50.0	97.0%	0.2%
Carbon Tetrachloride	42.0	50.0	84.0%	42.3	50.0	84.6%	0.7%
Vinyl Acetate	41.5	50.0	83.0%	42.8	50.0	85.6%	3.1%
Bromodichloromethane	49.2	50.0	98.4%	49.7	50.0	99.4%	1.0%
1,2-Dichloropropane	47.8	50.0	95.6%	48.6	50.0	97.2%	1.7%
cis-1,3-Dichloropropene	51.1	50.0	102%	51.7	50.0	103%	1.2%
Trichloroethene	50.3	50.0	101%	50.5	50.0	101%	0.4%
Dibromochloromethane	42.1	50.0	84.2%	43.0	50.0	86.0%	2.1%
1,1,2-Trichloroethane	47.9	50.0	95.8%	48.2	50.0	96.4%	0.6%
Benzene	49.8	50.0	99.6%	50.3	50.0	101%	1.0%
trans-1,3-Dichloropropene	51.7	50.0	103%	52.0	50.0	104%	0.6%
2-Chloroethylvinylether	41.3	50.0	82.6%	42.5	50.0	85.0%	2.9%
Bromoform	40.4	50.0	80.8%	41.9	50.0	83.8%	3.6%
4-Methyl-2-Pentanone (MIBK)	237	250	94.8%	244	250	97.6%	2.9%
2-Hexanone	227	250	90.8%	239	250	95.6%	5.2%
Tetrachloroethene	54.3	50.0	109%	54.4	50.0	109%	0.2%
1,1,2,2-Tetrachloroethane	47.3	50.0	94.6%	49.8	50.0	99.6%	5.1%
Toluene	49.0	50.0	98.0%	47.9	50.0	95.8%	2.3%
Chlorobenzene	50.1	50.0	100%	49.9	50.0	99.8%	0.4%
Ethylbenzene	51.1	50.0	102%	50.5	50.0	101%	1.2%
Styrene	53.2	50.0	106%	52.6	50.0	105%	1.1%
Trichlorofluoromethane	60.0	Q	50.0	120%	58.2	Q	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	55.3	50.0	111%	54.0	50.0	108%	2.4%
m,p-Xylene	107	100	107%	105	100	105%	1.9%
o-Xylene	51.3	50.0	103%	50.8	50.0	102%	1.0%
1,2-Dichlorobenzene	48.1	50.0	96.2%	48.9	50.0	97.8%	1.6%
1,3-Dichlorobenzene	49.2	50.0	98.4%	49.6	50.0	99.2%	0.8%
1,4-Dichlorobenzene	48.4	50.0	96.8%	49.1	50.0	98.2%	1.4%
Acrolein	202	250	80.8%	224	250	89.6%	10.3%
Methyl Iodide	61.3	Q	50.0	123%	58.2	Q	50.0
Bromoethane	51.4	50.0	103%	49.5	50.0	99.0%	3.8%
Acrylonitrile	41.6	50.0	83.2%	42.1	50.0	84.2%	1.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112
LIMS ID: 12-1524
Matrix: Soil

QC Report No: UG19-Windward Environmental, LLC
Project: ALSOCO Dexter

Analyte	LCS	Spike	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
1,1-Dichloropropene	50.5	50.0	101%	50.5	50.0	101% 0.0%
Dibromomethane	46.6	50.0	93.2%	47.8	50.0	95.6% 2.5%
1,1,1,2-Tetrachloroethane	52.2	50.0	104%	53.0	50.0	106% 1.5%
1,2-Dibromo-3-chloropropane	48.1	50.0	96.2%	50.0	50.0	100% 3.9%
1,2,3-Trichloropropane	46.8	50.0	93.6%	49.0	50.0	98.0% 4.6%
trans-1,4-Dichloro-2-butene	48.8	50.0	97.6%	50.1	50.0	100% 2.6%
1,3,5-Trimethylbenzene	49.9	50.0	99.8%	50.2	50.0	100% 0.6%
1,2,4-Trimethylbenzene	49.5	50.0	99.0%	50.0	50.0	100% 1.0%
Hexachlorobutadiene	53.0	50.0	106%	53.6	50.0	107% 1.1%
Ethylene Dibromide	48.4	50.0	96.8%	48.5	50.0	97.0% 0.2%
Bromochloromethane	45.3	50.0	90.6%	45.6	50.0	91.2% 0.7%
2,2-Dichloropropane	46.9	50.0	93.8%	46.7	50.0	93.4% 0.4%
1,3-Dichloropropane	47.0	50.0	94.0%	48.4	50.0	96.8% 2.9%
Isopropylbenzene	49.9	50.0	99.8%	50.5	50.0	101% 1.2%
n-Propylbenzene	51.2	50.0	102%	51.4	50.0	103% 0.4%
Bromobenzene	46.5	50.0	93.0%	47.8	50.0	95.6% 2.8%
2-Chlorotoluene	48.0	50.0	96.0%	48.6	50.0	97.2% 1.2%
4-Chlorotoluene	48.2	50.0	96.4%	48.5	50.0	97.0% 0.6%
tert-Butylbenzene	49.7	50.0	99.4%	50.0	50.0	100% 0.6%
sec-Butylbenzene	51.8	50.0	104%	52.2	50.0	104% 0.8%
4-Isopropyltoluene	52.0	50.0	104%	52.2	50.0	104% 0.4%
n-Butylbenzene	53.1	50.0	106%	53.1	50.0	106% 0.0%
1,2,4-Trichlorobenzene	50.1	50.0	100%	50.4	50.0	101% 0.6%
Naphthalene	46.4 B	50.0	92.8%	48.6 B	50.0	97.2% 4.6%
1,2,3-Trichlorobenzene	48.2	50.0	96.4%	49.0	50.0	98.0% 1.6%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	85.9%	87.8%
d8-Toluene	99.6%	98.1%
Bromofluorobenzene	97.9%	97.1%
d4-1,2-Dichlorobenzene	99.4%	99.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112

LIMS ID: 12-1519

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/01/12 11:46

LCSD: 02/01/12 12:08

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2540	2500	102%	2370	2500	94.8%	6.9%
Bromomethane	2340	B	93.6%	2210	B	2500	88.4%
Vinyl Chloride	2610	2500	104%	2560	2500	102%	1.9%
Chloroethane	2070	2500	82.8%	1970	2500	78.8%	5.0%
Methylene Chloride	1990	B	79.6%	2080	B	2500	83.2%
Acetone	11200	B	89.6%	11800	B	12500	94.4%
Carbon Disulfide	2800	2500	112%	2710	2500	108%	3.3%
1,1-Dichloroethene	2740	2500	110%	2690	2500	108%	1.8%
1,1-Dichloroethane	2390	2500	95.6%	2200	2500	88.0%	8.3%
trans-1,2-Dichloroethene	2360	2500	94.4%	2460	2500	98.4%	4.1%
cis-1,2-Dichloroethene	2300	2500	92.0%	2290	2500	91.6%	0.4%
Chloroform	2270	2500	90.8%	2270	2500	90.8%	0.0%
1,2-Dichloroethane	2170	2500	86.8%	2250	2500	90.0%	3.6%
2-Butanone	10700	12500	85.6%	11100	12500	88.8%	3.7%
1,1,1-Trichloroethane	2430	2500	97.2%	2420	2500	96.8%	0.4%
Carbon Tetrachloride	2100	2500	84.0%	2120	2500	84.8%	0.9%
Vinyl Acetate	2080	2500	83.2%	2140	2500	85.6%	2.8%
Bromodichloromethane	2460	2500	98.4%	2480	2500	99.2%	0.8%
1,2-Dichloropropane	2390	2500	95.6%	2430	2500	97.2%	1.7%
cis-1,3-Dichloropropene	2550	2500	102%	2580	2500	103%	1.2%
Trichloroethene	2520	2500	101%	2520	2500	101%	0.0%
Dibromochloromethane	2110	2500	84.4%	2150	2500	86.0%	1.9%
1,1,2-Trichloroethane	2390	2500	95.6%	2410	2500	96.4%	0.8%
Benzene	2490	2500	99.6%	2520	2500	101%	1.2%
trans-1,3-Dichloropropene	2580	2500	103%	2600	2500	104%	0.8%
2-Chloroethylvinylether	2060	2500	82.4%	2130	2500	85.2%	3.3%
Bromoform	2020	2500	80.8%	2090	2500	83.6%	3.4%
4-Methyl-2-Pentanone (MIBK)	11800	12500	94.4%	12200	12500	97.6%	3.3%
2-Hexanone	11400	12500	91.2%	12000	12500	96.0%	5.1%
Tetrachloroethene	2710	2500	108%	2720	2500	109%	0.4%
1,1,2,2-Tetrachloroethane	2370	2500	94.8%	2490	2500	99.6%	4.9%
Toluene	2450	2500	98.0%	2400	2500	96.0%	2.1%
Chlorobenzene	2500	2500	100%	2490	2500	99.6%	0.4%
Ethylbenzene	2560	2500	102%	2530	2500	101%	1.2%
Styrene	2660	2500	106%	2630	2500	105%	1.1%
Trichlorofluoromethane	3000	Q	120%	2910	Q	2500	116%
1,1,2-Trichloro-1,2,2-trifluoroethane	2770	2500	111%	2700	2500	108%	2.6%
m,p-Xylene	5340	5000	107%	5240	5000	105%	1.9%
o-Xylene	2560	2500	102%	2540	2500	102%	0.8%
1,2-Dichlorobenzene	2410	2500	96.4%	2450	2500	98.0%	1.6%
1,3-Dichlorobenzene	2460	2500	98.4%	2480	2500	99.2%	0.8%
1,4-Dichlorobenzene	2420	2500	96.8%	2460	2500	98.4%	1.6%
Acrolein	10100	12500	80.8%	11200	12500	89.6%	10.3%
Methyl Iodide	3060	Q	122%	2910	Q	2500	116%
Bromoethane	2570	2500	103%	2470	2500	98.8%	4.0%
Acrylonitrile	2080	2500	83.2%	2100	2500	84.0%	1.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112
LIMS ID: 12-1519
Matrix: Soil

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	2520	2500	101%	2530	2500	101%	0.4%
Dibromomethane	2330	2500	93.2%	2390	2500	95.6%	2.5%
1,1,1,2-Tetrachloroethane	2610	2500	104%	2650	2500	106%	1.5%
1,2-Dibromo-3-chloropropane	2400	2500	96.0%	2500	2500	100%	4.1%
1,2,3-Trichloropropane	2340	2500	93.6%	2450	2500	98.0%	4.6%
trans-1,4-Dichloro-2-butene	2440	2500	97.6%	2500	2500	100%	2.4%
1,3,5-Trimethylbenzene	2490	2500	99.6%	2510	2500	100%	0.8%
1,2,4-Trimethylbenzene	2480	2500	99.2%	2500	2500	100%	0.8%
Hexachlorobutadiene	2650	2500	106%	2680	2500	107%	1.1%
Ethylene Dibromide	2420	2500	96.8%	2420	2500	96.8%	0.0%
Bromochloromethane	2260	2500	90.4%	2280	2500	91.2%	0.9%
2,2-Dichloropropane	2340	2500	93.6%	2340	2500	93.6%	0.0%
1,3-Dichloropropane	2350	2500	94.0%	2420	2500	96.8%	2.9%
Isopropylbenzene	2490	2500	99.6%	2520	2500	101%	1.2%
n-Propylbenzene	2560	2500	102%	2570	2500	103%	0.4%
Bromobenzene	2330	2500	93.2%	2390	2500	95.6%	2.5%
2-Chlorotoluene	2400	2500	96.0%	2430	2500	97.2%	1.2%
4-Chlorotoluene	2410	2500	96.4%	2420	2500	96.8%	0.4%
tert-Butylbenzene	2480	2500	99.2%	2500	2500	100%	0.8%
sec-Butylbenzene	2590	2500	104%	2610	2500	104%	0.8%
4-Isopropyltoluene	2600	2500	104%	2610	2500	104%	0.4%
n-Butylbenzene	2650	2500	106%	2660	2500	106%	0.4%
1,2,4-Trichlorobenzene	2500	2500	100%	2520	2500	101%	0.8%
Naphthalene	2320 B	2500	92.8%	2430 B	2500	97.2%	4.6%
1,2,3-Trichlorobenzene	2410	2500	96.4%	2450	2500	98.0%	1.6%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	85.9%	87.8%
d8-Toluene	99.6%	98.1%
Bromofluorobenzene	97.9%	97.1%
d4-1,2-Dichlorobenzene	99.4%	99.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020212
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1527

Matrix: Soil

Data Release Authorized: *J*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/02/12 09:58

LCSD: 02/02/12 10:19

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.2	50.0	92.4%	40.4	50.0	80.8%	13.4%
Bromomethane	46.6	50.0	93.2%	39.2	50.0	78.4%	17.2%
Vinyl Chloride	49.5	50.0	99.0%	43.8	50.0	87.6%	12.2%
Chloroethane	38.7 Q	50.0	77.4%	34.2 Q	50.0	68.4%	12.3%
Methylene Chloride	40.2 B	50.0	80.4%	37.6 B	50.0	75.2%	6.7%
Acetone	233	250	93.2%	213	250	85.2%	9.0%
Carbon Disulfide	50.8	50.0	102%	45.5	50.0	91.0%	11.0%
1,1-Dichloroethene	49.4	50.0	98.8%	44.8	50.0	89.6%	9.8%
1,1-Dichloroethane	48.1	50.0	96.2%	41.3	50.0	82.6%	15.2%
trans-1,2-Dichloroethene	46.9	50.0	93.8%	43.1	50.0	86.2%	8.4%
cis-1,2-Dichloroethene	45.3	50.0	90.6%	42.3	50.0	84.6%	6.8%
Chloroform	45.0	50.0	90.0%	42.2	50.0	84.4%	6.4%
1,2-Dichloroethane	47.1	50.0	94.2%	43.5	50.0	87.0%	7.9%
2-Butanone	212	250	84.8%	196	250	78.4%	7.8%
1,1,1-Trichloroethane	48.3	50.0	96.6%	44.5	50.0	89.0%	8.2%
Carbon Tetrachloride	45.9	50.0	91.8%	40.9	50.0	81.8%	11.5%
Vinyl Acetate	45.1	50.0	90.2%	42.5	50.0	85.0%	5.9%
Bromodichloromethane	51.8	50.0	104%	47.9	50.0	95.8%	7.8%
1,2-Dichloropropane	48.9	50.0	97.8%	45.3	50.0	90.6%	7.6%
cis-1,3-Dichloropropene	52.6	50.0	105%	48.5	50.0	97.0%	8.1%
Trichloroethene	52.4	50.0	105%	46.6	50.0	93.2%	11.7%
Dibromochloromethane	46.0	50.0	92.0%	41.9	50.0	83.8%	9.3%
1,1,2-Trichloroethane	48.0	50.0	96.0%	44.4	50.0	88.8%	7.8%
Benzene	50.5	50.0	101%	45.8	50.0	91.6%	9.8%
trans-1,3-Dichloropropene	53.2	50.0	106%	49.1	50.0	98.2%	8.0%
2-Chloroethylvinylether	44.9	50.0	89.8%	39.4	50.0	78.8%	13.0%
Bromoform	45.3	50.0	90.6%	40.1	50.0	80.2%	12.2%
4-Methyl-2-Pentanone (MIBK)	245	250	98.0%	222	250	88.8%	9.9%
2-Hexanone	256	250	102%	227	250	90.8%	12.0%
Tetrachloroethene	56.6	50.0	113%	49.2	50.0	98.4%	14.0%
1,1,2,2-Tetrachloroethane	51.2	50.0	102%	45.9	50.0	91.8%	10.9%
Toluene	48.8	50.0	97.6%	43.6	50.0	87.2%	11.3%
Chlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
Ethylbenzene	53.8	50.0	108%	47.2	50.0	94.4%	13.1%
Styrene	54.8	50.0	110%	48.8	50.0	97.6%	11.6%
Trichlorofluoromethane	50.6	50.0	101%	44.9	50.0	89.8%	11.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	49.7	50.0	99.4%	45.0	50.0	90.0%	9.9%
m,p-Xylene	110	100	110%	95.6	100	95.6%	14.0%
o-Xylene	53.0	50.0	106%	47.3	50.0	94.6%	11.4%
1,2-Dichlorobenzene	50.4	50.0	101%	44.7	50.0	89.4%	12.0%
1,3-Dichlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
1,4-Dichlorobenzene	51.0	50.0	102%	44.9	50.0	89.8%	12.7%
Acrolein	217	250	86.8%	201	250	80.4%	7.7%
Methyl Iodide	59.9	50.0	120%	51.0	50.0	102%	16.1%
Bromoethane	47.0	50.0	94.0%	42.3	50.0	84.6%	10.5%
Acrylonitrile	43.0	50.0	86.0%	39.2	50.0	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1527
Matrix: Soil

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	52.8	50.0	106%	47.1	50.0	94.2%	11.4%
Dibromomethane	48.5	50.0	97.0%	44.4	50.0	88.8%	8.8%
1,1,1,2-Tetrachloroethane	55.8	50.0	112%	50.5	50.0	101%	10.0%
1,2-Dibromo-3-chloropropane	54.6	50.0	109%	47.2	50.0	94.4%	14.5%
1,2,3-Trichloropropane	51.4	50.0	103%	45.5	50.0	91.0%	12.2%
trans-1,4-Dichloro-2-butene	54.5	50.0	109%	47.7	50.0	95.4%	13.3%
1,3,5-Trimethylbenzene	54.0	50.0	108%	47.6	50.0	95.2%	12.6%
1,2,4-Trimethylbenzene	53.3	50.0	107%	47.2	50.0	94.4%	12.1%
Hexachlorobutadiene	53.1	50.0	106%	46.0	50.0	92.0%	14.3%
Ethylene Dibromide	49.4	50.0	98.8%	45.1	50.0	90.2%	9.1%
Bromochloromethane	44.2	50.0	88.4%	41.5	50.0	83.0%	6.3%
2,2-Dichloropropane	48.7	50.0	97.4%	44.9	50.0	89.8%	8.1%
1,3-Dichloropropane	49.9	50.0	99.8%	45.9	50.0	91.8%	8.4%
Isopropylbenzene	54.3	50.0	109%	47.8	50.0	95.6%	12.7%
n-Propylbenzene	55.3	50.0	111%	48.3	50.0	96.6%	13.5%
Bromobenzene	50.0	50.0	100%	45.0	50.0	90.0%	10.5%
2-Chlorotoluene	52.7	50.0	105%	46.2	50.0	92.4%	13.1%
4-Chlorotoluene	52.3	50.0	105%	45.9	50.0	91.8%	13.0%
tert-Butylbenzene	53.5	50.0	107%	47.1	50.0	94.2%	12.7%
sec-Butylbenzene	55.5	50.0	111%	48.6	50.0	97.2%	13.3%
4-Isopropyltoluene	55.8	50.0	112%	48.6	50.0	97.2%	13.8%
n-Butylbenzene	56.8	50.0	114%	48.8	50.0	97.6%	15.2%
1,2,4-Trichlorobenzene	51.7	50.0	103%	45.5	50.0	91.0%	12.8%
Naphthalene	50.4 B	50.0	101%	43.6 B	50.0	87.2%	14.5%
1,2,3-Trichlorobenzene	50.0	50.0	100%	43.8	50.0	87.6%	13.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1525

Matrix: Soil

Data Release Authorized: *JB*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/02/12 09:58

LCSD: 02/02/12 10:19

Sample Amount LCS: 100 mg-dry-wt

LCSD: 100 mg-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2310	2500	92.4%	2020	2500	80.8%	13.4%
Bromomethane	2330	2500	93.2%	1960	2500	78.4%	17.2%
Vinyl Chloride	2480	2500	99.2%	2190	2500	87.6%	12.4%
Chloroethane	1930 Q	2500	77.2%	1710 Q	2500	68.4%	12.1%
Methylene Chloride	2010 B	2500	80.4%	1880 B	2500	75.2%	6.7%
Acetone	11600	12500	92.8%	10700	12500	85.6%	8.1%
Carbon Disulfide	2540	2500	102%	2280	2500	91.2%	10.8%
1,1-Dichloroethene	2470	2500	98.8%	2240	2500	89.5%	9.8%
1,1-Dichloroethane	2400	2500	96.0%	2060	2500	82.4%	15.2%
trans-1,2-Dichloroethene	2350	2500	94.0%	2150	2500	86.0%	8.9%
cis-1,2-Dichloroethene	2270	2500	90.8%	2120	2500	84.8%	6.8%
Chloroform	2250	2500	90.0%	2110	2500	84.4%	6.4%
1,2-Dichloroethane	2350	2500	94.0%	2180	2500	87.2%	7.5%
2-Butanone	10600	12500	84.8%	9790	12500	78.3%	7.9%
1,1,1-Trichloroethane	2410	2500	96.4%	2230	2500	89.2%	7.8%
Carbon Tetrachloride	2290	2500	91.6%	2040	2500	81.6%	11.5%
Vinyl Acetate	2250	2500	90.0%	2120	2500	84.8%	5.9%
Bromodichloromethane	2590	2500	104%	2390	2500	95.6%	8.0%
1,2-Dichloropropane	2440	2500	97.6%	2270	2500	90.8%	7.2%
cis-1,3-Dichloropropene	2630	2500	105%	2420	2500	96.8%	8.3%
Trichloroethene	2620	2500	105%	2330	2500	93.2%	11.7%
Dibromochloromethane	2300	2500	92.0%	2090	2500	83.6%	9.6%
1,1,2-Trichloroethane	2400	2500	96.0%	2220	2500	88.8%	7.8%
Benzene	2520	2500	101%	2290	2500	91.6%	9.6%
trans-1,3-Dichloropropene	2660	2500	106%	2450	2500	98.0%	8.2%
2-Chloroethylvinylether	2240	2500	89.6%	1970	2500	78.8%	12.8%
Bromoform	2270	2500	90.8%	2010	2500	80.4%	12.1%
4-Methyl-2-Pentanone (MIBK)	12300	12500	98.4%	11100	12500	88.8%	10.3%
2-Hexanone	12800	12500	102%	11400	12500	91.2%	11.6%
Tetrachloroethene	2830	2500	113%	2460	2500	98.4%	14.0%
1,1,2,2-Tetrachloroethane	2560	2500	102%	2290	2500	91.6%	11.1%
Toluene	2440	2500	97.6%	2180	2500	87.2%	11.3%
Chlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
Ethylbenzene	2690	2500	108%	2360	2500	94.4%	13.1%
Styrene	2740	2500	110%	2440	2500	97.6%	11.6%
Trichlorofluoromethane	2530	2500	101%	2240	2500	89.6%	12.2%
1,1,2-Trichloro-1,2,2-trifluoroethane	2490	2500	99.6%	2250	2500	90.0%	10.1%
m,p-Xylene	5480	5000	110%	4780	5000	95.6%	13.6%
o-Xylene	2650	2500	106%	2360	2500	94.4%	11.6%
1,2-Dichlorobenzene	2520	2500	101%	2230	2500	89.2%	12.2%
1,3-Dichlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
1,4-Dichlorobenzene	2550	2500	102%	2240	2500	89.6%	12.9%
Acrolein	10800	12500	86.4%	10100	12500	80.8%	6.7%
Methyl Iodide	3000	2500	120%	2550	2500	102%	16.2%
Bromoethane	2350	2500	94.0%	2110	2500	84.4%	10.8%
Acrylonitrile	2150	2500	86.0%	1960	2500	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: LCS-020212
LAB CONTROL SAMPLE

 Lab Sample ID: LCS-020212
 LIMS ID: 1Z-1525
 Matrix: Soil

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

Analyte	LCS	Spike	LCS	Spike	LCS	RPD	
		Added-LCS	Recovery	LCSD	Added-LCSD		
1,1-Dichloropropene	2640	2500	106%	2360	2500	94.4%	11.2%
Dibromomethane	2420	2500	96.8%	2220	2500	88.8%	8.6%
1,1,1,2-Tetrachloroethane	2790	2500	112%	2520	2500	101%	10.2%
1,2-Dibromo-3-chloropropane	2730	2500	109%	2360	2500	94.4%	14.5%
1,2,3-Trichloropropane	2570	2500	103%	2280	2500	91.2%	12.0%
trans-1,4-Dichloro-2-butene	2720	2500	109%	2390	2500	95.6%	12.9%
1,3,5-Trimethylbenzene	2700	2500	108%	2380	2500	95.2%	12.6%
1,2,4-Trimethylbenzene	2660	2500	106%	2360	2500	94.4%	12.0%
Hexachlorobutadiene	2650	2500	106%	2300	2500	92.0%	14.1%
Ethylene Dibromide	2470	2500	98.8%	2260	2500	90.4%	8.9%
Bromochloromethane	2210	2500	88.4%	2070	2500	82.8%	6.5%
2,2-Dichloropropane	2430	2500	97.2%	2250	2500	90.0%	7.7%
1,3-Dichloropropane	2500	2500	100%	2300	2500	92.0%	8.3%
Isopropylbenzene	2720	2500	109%	2390	2500	95.6%	12.9%
n-Propylbenzene	2760	2500	110%	2420	2500	96.8%	13.1%
Bromobenzene	2500	2500	100%	2250	2500	90.0%	10.5%
2-Chlorotoluene	2630	2500	105%	2310	2500	92.4%	13.0%
4-Chlorotoluene	2610	2500	104%	2300	2500	92.0%	12.6%
tert-Butylbenzene	2670	2500	107%	2360	2500	94.4%	12.3%
sec-Butylbenzene	2770	2500	111%	2430	2500	97.2%	13.1%
4-Isopropyltoluene	2790	2500	112%	2430	2500	97.2%	13.8%
n-Butylbenzene	2840	2500	114%	2440	2500	97.6%	15.2%
1,2,4-Trichlorobenzene	2580	2500	103%	2270	2500	90.8%	12.8%
Naphthalene	2520 B	2500	101%	2180 B	2500	87.2%	14.5%
1,2,3-Trichlorobenzene	2500	2500	100%	2190	2500	87.6%	13.2%

 Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

LIMS ID: 12-1524

Matrix: Soil

Data Release Authorized: *[Signature]*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/01/12 12:29

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	0.5	J
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.7	J
67-64-1	Acetone	5.0	3.0	J
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1524

Matrix: Soil

Date Analyzed: 02/01/12 12:29

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.6%
d8-Toluene	98.3%
Bromofluorobenzene	92.0%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

Sample ID: MB-020112
METHOD BLANK

 Lab Sample ID: MB-020112
 LIMS ID: 12-1519
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 02/03/12

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter
 Date Sampled: NA
 Date Received: NA

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/01/12 12:29

 Sample Amount: 100 mg-dry-wt
 Purge Volume: 5.0 mL
 Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	24	J
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	86	J
67-64-1	Acetone	250	150	J
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	< 50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethylbenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	o-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

LIMS ID: 12-1519

Matrix: Soil

Date Analyzed: 02/01/12 12:29

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	< 250	U
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.6%
d8-Toluene	98.3%
Bromofluorobenzene	92.0%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1527

Matrix: Soil

Data Release Authorized: *P*

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT9/PAB

Date Analyzed: 02/02/12 10:41

Sample Amount: 5.00 g-dry-wt

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.0	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chlroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 2 of 2

 Sample ID: MB-020212
 METHOD BLANK

Lab Sample ID: MB-020212

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

LIMS ID: 12-1527

Matrix: Soil

Date Analyzed: 02/02/12 10:41

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1525

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 10:41

Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	< 50	U
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	50	J
67-64-1	Acetone	250	< 250	U
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	< 50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethybenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	o-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1525

Matrix: Soil

Date Analyzed: 02/02/12 10:41

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	< 250	U
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0200
SAMPLE

Lab Sample ID: UG19L

LIMS ID: 12-1530

Matrix: Water

Data Release Authorized:

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 01/31/12 12:16

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	37	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	3.6	J
75-15-0	Carbon Disulfide	0.2	0.1	J
75-35-4	1,1-Dichloroethene	0.2	0.1	J
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	0.4	
156-59-2	cis-1,2-Dichloroethene	0.2	37	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	8.4	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	0.7	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	19	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	0.2	J
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	0.1	J
95-47-6	o-Xylene	0.2	0.2	J
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0200
SAMPLE

Lab Sample ID: UG19L
LIMS ID: 12-1530
Matrix: Water
Date Analyzed: 01/31/12 12:16

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	0.1	J
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	0.2	
103-65-1	n-Propylbenzene	0.2	0.3	
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	0.8	
104-51-8	n-Butylbenzene	0.2	0.2	
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.8%
d8-Toluene	95.2%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-08-0400

SAMPLE

Lab Sample ID: UG19M

LIMS ID: 12-1531

Matrix: Water

Data Release Authorized: *B*

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSKO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 01/31/12 12:43

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	12	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	3.6	J
75-15-0	Carbon Disulfide	0.2	0.2	J
75-35-4	1,1-Dichloroethene	0.2	0.2	
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	0.4	
156-59-2	cis-1,2-Dichloroethene	0.2	47	
67-66-3	Chloroform	0.2	0.1	J
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	26	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	0.2	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	830	ES
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	0.2	J
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	0.1	J
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0400
SAMPLE

Lab Sample ID: UG19M
LIMS ID: 12-1531
Matrix: Water
Date Analyzed: 01/31/12 12:43

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	0.1	J
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	0.4	
104-51-8	n-Butylbenzene	0.2	0.1	J
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	94.4%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-08-0400

DILUTION

Lab Sample ID: UG19M

LIMS ID: 12-1531

Matrix: Water

Data Release Authorized:

[Signature]

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSKO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/01/12 11:12

Sample Amount: 0.100 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	18	J
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	< 500	U
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	< 20	U
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	63	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	34	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	2,800	
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	<i>o</i> -Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0400
DILUTION

Lab Sample ID: UG19M
LIMS ID: 12-1531
Matrix: Water
Date Analyzed: 02/01/12 11:12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.3%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-08-0600
SAMPLE

Lab Sample ID: UG19N

LIMS ID: 12-1532

Matrix: Water

Data Release Authorized: *B*

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/29/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 01/31/12 13:10

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	3.4	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	11	
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	2.8	
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	0.2	
156-59-2	cis-1,2-Dichloroethene	0.2	190	ES
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	1.2	J
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	170	ES
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	0.4	
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	2.0	J
127-18-4	Tetrachloroethene	0.2	1,800	ES
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	0.6	
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	0.1	J
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	0.4	
95-47-6	o-Xylene	0.2	0.2	J
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0600
SAMPLE

Lab Sample ID: UG19N
LIMS ID: 12-1532
Matrix: Water
Date Analyzed: 01/31/12 13:10

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	0.3	
95-63-6	1,2,4-Trimethylbenzene	0.2	0.9	
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	0.2	J
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.7%
d8-Toluene	93.1%
Bromofluorobenzene	91.8%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-08-0600
DILUTION

Lab Sample ID: UG19N
LIMS ID: 12-1532
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/02/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/01/12 11:39

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter
Date Sampled: 01/29/12
Date Received: 01/30/12
Sample Amount: 0.0500 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	< 100	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	40	< 40	U
75-00-3	Chloroethane	40	< 40	U
75-09-2	Methylene Chloride	200	< 200	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	40	< 40	U
75-35-4	1,1-Dichloroethene	40	< 40	U
75-34-3	1,1-Dichloroethane	40	< 40	U
156-60-5	trans-1,2-Dichloroethene	40	< 40	U
156-59-2	cis-1,2-Dichloroethene	40	270	
67-66-3	Chloroform	40	< 40	U
107-06-2	1,2-Dichloroethane	40	< 40	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	40	< 40	U
56-23-5	Carbon Tetrachloride	40	< 40	U
108-05-4	Vinyl Acetate	40	< 40	U
75-27-4	Bromodichloromethane	40	< 40	U
78-87-5	1,2-Dichloropropane	40	< 40	U
10061-01-5	cis-1,3-Dichloropropene	40	< 40	U
79-01-6	Trichloroethene	40	230	
124-48-1	Dibromo-chloromethane	40	< 40	U
79-00-5	1,1,2-Trichloroethane	40	< 40	U
71-43-2	Benzene	40	< 40	U
10061-02-6	trans-1,3-Dichloropropene	40	< 40	U
110-75-8	2-Chloroethylvinylether	200	< 200	U
75-25-2	Bromoform	40	< 40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	40	12,000	E
79-34-5	1,1,2,2-Tetrachloroethane	40	< 40	U
108-88-3	Toluene	40	< 40	U
108-90-7	Chlorobenzene	40	< 40	U
100-41-4	Ethylbenzene	40	< 40	U
100-42-5	Styrene	40	< 40	U
75-69-4	Trichlorofluoromethane	40	< 40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	40	< 40	U
179601-23-1	m,p-Xylene	80	< 80	U
95-47-6	c-Xylene	40	< 40	U
95-50-1	1,2-Dichlorobenzene	40	< 40	U
541-73-1	1,3-Dichlorobenzene	40	< 40	U
106-46-7	1,4-Dichlorobenzene	40	< 40	U
107-02-8	Acrolein	1,000	< 1,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0600
DILUTION

Lab Sample ID: UG19N
LIMS ID: 12-1532
Matrix: Water
Date Analyzed: 02/01/12 11:39

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	40	< 40	U
107-13-1	Acrylonitrile	200	< 200	U
563-58-6	1,1-Dichloropropene	40	< 40	U
74-95-3	Dibromomethane	40	< 40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	< 40	U
96-12-8	1,2-Dibromo-3-chloropropane	100	< 100	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	200	< 200	U
108-67-8	1,3,5-Trimethylbenzene	40	< 40	U
95-63-6	1,2,4-Trimethylbenzene	40	< 40	U
87-68-3	Hexachlorobutadiene	100	< 100	U
106-93-4	Ethylene Dibromide	40	< 40	U
74-97-5	Bromochloromethane	40	< 40	U
594-20-7	2,2-Dichloropropane	40	< 40	U
142-28-9	1,3-Dichloropropane	40	< 40	U
98-82-8	Isopropylbenzene	40	< 40	U
103-65-1	n-Propylbenzene	40	< 40	U
108-86-1	Bromobenzene	40	< 40	U
95-49-8	2-Chlorotoluene	40	< 40	U
106-43-4	4-Chlorotoluene	40	< 40	U
98-06-6	tert-Butylbenzene	40	< 40	U
135-98-8	sec-Butylbenzene	40	< 40	U
99-87-6	4-Isopropyltoluene	40	< 40	U
104-51-8	n-Butylbenzene	40	< 40	U
120-82-1	1,2,4-Trichlorobenzene	100	< 100	U
91-20-3	Naphthalene	100	< 100	U
87-61-6	1,2,3-Trichlorobenzene	100	< 100	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	96.3%
Bromofluorobenzene	96.9%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-08-0600

DILUTION

Lab Sample ID: UG19N

LIMS ID: 12-1532

Matrix: Water

Data Release Authorized: *B*

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/29/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/01/12 18:18

Sample Amount: 0.0333 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	150	< 150	U
74-83-9	Bromomethane	300	< 300	U
75-01-4	Vinyl Chloride	60	< 60	U
75-00-3	Chloroethane	60	< 60	U
75-09-2	Methylene Chloride	300	< 300	U
67-64-1	Acetone	1,500	< 1,500	U
75-15-0	Carbon Disulfide	60	< 60	U
75-35-4	1,1-Dichloroethene	60	< 60	U
75-34-3	1,1-Dichloroethane	60	< 60	U
156-60-5	trans-1,2-Dichloroethene	60	< 60	U
156-59-2	cis-1,2-Dichloroethene	60	270	
67-66-3	Chloroform	60	< 60	U
107-06-2	1,2-Dichloroethane	60	< 60	U
78-93-3	2-Butanone	1,500	< 1,500	U
71-55-6	1,1,1-Trichloroethane	60	< 60	U
56-23-5	Carbon Tetrachloride	60	< 60	U
108-05-4	Vinyl Acetate	60	< 60	U
75-27-4	Bromodichloromethane	60	< 60	U
78-87-5	1,2-Dichloropropane	60	< 60	U
10061-01-5	cis-1,3-Dichloropropene	60	< 60	U
79-01-6	Trichloroethene	60	220	
124-48-1	Dibromochloromethane	60	< 60	U
79-00-5	1,1,2-Trichloroethane	60	< 60	U
71-43-2	Benzene	60	< 60	U
10061-02-6	trans-1,3-Dichloropropene	60	< 60	U
110-75-8	2-Chloroethylvinylether	300	< 300	U
75-25-2	Bromoform	60	< 60	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,500	< 1,500	U
591-78-6	2-Hexanone	1,500	< 1,500	U
127-18-4	Tetrachloroethene	60	12,000	
79-34-5	1,1,2,2-Tetrachloroethane	60	< 60	U
108-88-3	Toluene	60	< 60	U
108-90-7	Chlorobenzene	60	< 60	U
100-41-4	Ethylbenzene	60	< 60	U
100-42-5	Styrene	60	< 60	U
75-69-4	Trichlorofluoromethane	60	< 60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	60	< 60	U
179601-23-1	m,p-Xylene	120	< 120	U
95-47-6	o-Xylene	60	< 60	U
95-50-1	1,2-Dichlorobenzene	60	< 60	U
541-73-1	1,3-Dichlorobenzene	60	< 60	U
106-46-7	1,4-Dichlorobenzene	60	< 60	U
107-02-8	Acrolein	1,500	< 1,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-08-0600
DILUTION

Lab Sample ID: UG19N
LIMS ID: 12-1532
Matrix: Water
Date Analyzed: 02/01/12 18:18

QC Report No: UG19-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	300	< 300	U
74-96-4	Bromoethane	60	< 60	U
107-13-1	Acrylonitrile	300	< 300	U
563-58-6	1,1-Dichloropropene	60	< 60	U
74-95-3	Dibromomethane	60	< 60	U
630-20-6	1,1,1,2-Tetrachloroethane	60	< 60	U
96-12-8	1,2-Dibromo-3-chloropropane	150	< 150	U
96-18-4	1,2,3-Trichloropropane	150	< 150	U
110-57-6	trans-1,4-Dichloro-2-butene	300	< 300	U
108-67-8	1,3,5-Trimethylbenzene	60	< 60	U
95-63-6	1,2,4-Trimethylbenzene	60	< 60	U
87-68-3	Hexachlorobutadiene	150	< 150	U
106-93-4	Ethylene Dibromide	60	< 60	U
74-97-5	Bromochloromethane	60	< 60	U
594-20-7	2,2-Dichloropropane	60	< 60	U
142-28-9	1,3-Dichloropropane	60	< 60	U
98-82-8	Isopropylbenzene	60	< 60	U
103-65-1	n-Propylbenzene	60	< 60	U
108-86-1	Bromobenzene	60	< 60	U
95-49-8	2-Chlorotoluene	60	< 60	U
106-43-4	4-Chlorotoluene	60	< 60	U
98-06-6	tert-Butylbenzene	60	< 60	U
135-98-8	sec-Butylbenzene	60	< 60	U
99-87-6	4-Isopropyltoluene	60	< 60	U
104-51-8	n-Butylbenzene	60	< 60	U
120-82-1	1,2,4-Trichlorobenzene	150	< 150	U
91-20-3	Naphthalene	150	< 150	U
87-61-6	1,2,3-Trichlorobenzene	150	< 150	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	97.3%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG190
LIMS ID: 12-1533
Matrix: Water
Data Release Authorized: *EB*
Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/28/12
Date Received: 01/30/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 01/31/12 13:36

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG190
LIMS ID: 12-1533
Matrix: Water
Date Analyzed: 01/31/12 13:36

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in pg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.7%
d8-Toluene	97.7%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: Trip Blank
REANALYSIS

Lab Sample ID: UG190

LIMS ID: 12-1533

Matrix: Water

Data Release Authorized: *B*

Reported: 02/02/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/01/12 12:05

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

Date Sampled: 01/28/12

Date Received: 01/30/12

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	1.1	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
REANALYSIS

Lab Sample ID: UG190
LIMS ID: 12-1533
Matrix: Water
Date Analyzed: 02/01/12 12:05

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	97.3%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG19P

LIMS ID: 12-1534

Matrix: Water

Data Release Authorized: *JB*

Reported: 02/02/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 01/31/12 14:02

QC Report No: UG19-Windward Environmental, LLC

Project: ALSO Dexter

Date Sampled: 01/29/12

Date Received: 01/30/12

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	1.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG19P
LIMS ID: 12-1534
Matrix: Water
Date Analyzed: 01/31/12 14:02

QC Report No: UG19-Windward Environmental, LLC
Project: ALSO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	98.4%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: Trip Blank
REANALYSIS

Lab Sample ID: UG19P
LIMS ID: 12-1534
Matrix: Water
Data Release Authorized: *J*
Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSO Dexter

Date Sampled: 01/29/12
Date Received: 01/30/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/01/12 12:32

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
REANALYSIS

Lab Sample ID: UG19P
LIMS ID: 12-1534
Matrix: Water
Date Analyzed: 02/01/12 12:32

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in pg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.3%
Bromofluorobenzene	98.7%
d4-1,2-Dichlorobenzene	100%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

 QC Report No: UG19-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-013112	Method Blank	10	102%	95.8%	97.3%	100%	0
LCS-013112	Lab Control	10	102%	97.7%	99.6%	100%	0
LCSD-013112	Lab Control Dup	10	98.7%	97.3%	100%	100%	0
UG19L	SB-W-08-0200	10	99.8%	95.2%	99.2%	100%	0
MB-020112	Method Blank	10	102%	96.8%	100%	100%	0
LCS-020112	Lab Control	10	102%	99.2%	99.5%	100%	0
LCSD-020112	Lab Control Dup	10	105%	98.8%	98.1%	100%	0
UG19M	SB-W-08-0400	10	96.7%	94.4%	95.9%	100%	0
UG19MDL	SB-W-08-0400	10	100%	98.3%	102%	100%	0
UG19N	SB-W-08-0600	10	87.7%	93.1%	91.8%	100%	0
UG19NDL	SB-W-08-0600	10	104%	96.3%	96.9%	100%	0
UG19NDL	SB-W-08-0600	10	106%	97.3%	97.0%	100%	0
UG19O	Trip Blank	10	98.7%	97.7%	102%	100%	0
UG19ORE	Trip Blank	10	103%	97.3%	99.0%	100%	0
UG19P	Trip Blank	10	98.9%	98.4%	101%	100%	0
UG19PRE	Trip Blank	10	103%	98.3%	98.7%	100%	0

LCS/MB LIMITS
QC LIMITS
SW8260C

(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

 Prep Method: SW5030B
 Log Number Range: 12-1530 to 12-1534

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-013112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112
LIMS ID: 12-1530
Matrix: Water
Data Release Authorized: *B*
Reported: 02/02/12

Instrument/Analyst LCS: NT2/PKC
LCSD: NT2/PKC
Date Analyzed LCS: 01/31/12 09:30
LCSD: 01/31/12 09:56

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

Date Sampled: NA
Date Received: NA

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chlcromethane	9.5	10.0	95.0%	10.5	10.0	105%	10.0%
Bromomethane	9.9	10.0	99.0%	10.6	10.0	106%	6.8%
Vinyl Chloride	9.4	10.0	94.0%	10.4	10.0	104%	10.1%
Chloroethane	9.7	10.0	97.0%	10.8	10.0	108%	10.7%
Methylene Chloride	10.3	10.0	103%	11.4	10.0	114%	10.1%
Acetone	46.9	50.0	93.8%	49.3	50.0	98.6%	5.0%
Carbon Disulfide	10.5	10.0	105%	11.6	10.0	116%	10.0%
1,1-Dichloroethene	9.9	10.0	99.0%	11.0	10.0	110%	10.5%
1,1-Dichloroethane	10.2	10.0	102%	11.0	10.0	110%	7.5%
trans-1,2-Dichloroethene	10.2	10.0	102%	11.3	10.0	113%	10.2%
cis-1,2-Dichloroethene	10.4	10.0	104%	11.2	10.0	112%	7.4%
Chloroform	10.6	10.0	106%	11.3	10.0	113%	6.4%
1,2-Dichloroethane	10.4	10.0	104%	10.7	10.0	107%	2.8%
2-Butanone	47.4	50.0	94.8%	47.5	50.0	95.0%	0.2%
1,1,1-Trichloroethane	10.6	10.0	106%	11.6	10.0	116%	9.0%
Carbon Tetrachloride	12.6 Q	10.0	126%	14.0 Q	10.0	140%	10.5%
Vinyl Acetate	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
Bromodichloromethane	11.9	10.0	119%	12.3	10.0	123%	3.3%
1,2-Dichloropropane	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
cis-1,3-Dichloropropene	10.0	10.0	100%	10.0	10.0	100%	0.0%
Trichloroethene	10.5	10.0	105%	11.2	10.0	112%	6.5%
Dibromochloromethane	9.7	10.0	97.0%	9.9	10.0	99.0%	2.0%
1,1,2-Trichloroethane	10.0	10.0	100%	10.0	10.0	100%	0.0%
Benzene	10.4	10.0	104%	10.9	10.0	109%	4.7%
trans-1,3-Dichloropropene	10.1	10.0	101%	9.8	10.0	98.0%	3.0%
2-Chloroethylvinylether	8.2 Q	10.0	82.0%	8.1 Q	10.0	81.0%	1.2%
Bromoform	11.5	10.0	115%	11.3	10.0	113%	1.8%
4-Methyl-2-Pentanone (MIBK)	49.8	50.0	99.6%	51.8	50.0	104%	3.9%
2-Hexanone	46.8	50.0	93.6%	47.2	50.0	94.4%	0.9%
Tetrachloroethene	10.4	10.0	104%	10.9	10.0	109%	4.7%
1,1,2,2-Tetrachloroethane	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
Toluene	9.8	10.0	98.0%	10.2	10.0	102%	4.0%
Chlorobenzene	9.8	10.0	98.0%	10.2	10.0	102%	4.0%
Ethylbenzene	10.0	10.0	100%	10.6	10.0	106%	5.8%
Styrene	10.1	10.0	101%	10.6	10.0	106%	4.8%
Trichlorofluoromethane	10.8	10.0	108%	11.9	10.0	119%	9.7%
1,1,2-Trichloro-1,2,2-trifluoroethane	10.2	10.0	102%	11.4	10.0	114%	11.1%
m,p-Xylene	20.5	20.0	102%	21.6	20.0	108%	5.2%
o-Xylene	10.4	10.0	104%	11.1	10.0	111%	6.5%
1,2-Dichlorobenzene	9.8	10.0	98.0%	10.3	10.0	103%	5.0%
1,3-Dichlorobenzene	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
1,4-Dichlorobenzene	9.7	10.0	97.0%	10.0	10.0	100%	3.0%
Acrolein	42.0	50.0	84.0%	45.3	50.0	90.6%	7.6%
Methyl Iodide	10.1	10.0	101%	11.3	10.0	113%	11.2%
Bromoethane	10.2	10.0	102%	11.4	10.0	114%	11.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-013112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-013112
LIMS ID: 12-1530
Matrix: Water

QC Report No: UG19-Windward Environmental, LLC
Project: ALS CO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	10.2	10.0	102%	10.6	10.0	106%	3.8%
1,1-Dichloropropene	10.6	10.0	106%	11.1	10.0	111%	4.6%
Dibromomethane	10.5	10.0	105%	10.7	10.0	107%	1.9%
1,1,1,2-Tetrachloroethane	12.3 Q	10.0	123%	13.4 Q	10.0	134%	8.6%
1,2-Dibromo-3-chloropropane	11.2	10.0	112%	12.3	10.0	123%	9.4%
1,2,3-Trichloropropane	9.8	10.0	98.0%	10.1	10.0	101%	3.0%
trans-1,4-Dichloro-2-butene	9.2	10.0	92.0%	8.4	10.0	84.0%	9.1%
1,3,5-Trimethylbenzene	10.2	10.0	102%	10.5	10.0	105%	2.9%
1,2,4-Trimethylbenzene	10.1	10.0	101%	10.5	10.0	105%	3.9%
Hexachlorobutadiene	10.4 B	10.0	104%	11.2 B	10.0	112%	7.4%
Ethylene Dibromide	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
Bromochloromethane	10.6	10.0	106%	11.0	10.0	110%	3.7%
2,2-Dichloropropane	10.0	10.0	100%	10.8	10.0	108%	7.7%
1,3-Dichloropropane	9.4	10.0	94.0%	9.6	10.0	96.0%	2.1%
Isopropylbenzene	10.0	10.0	100%	10.4	10.0	104%	3.9%
n-Propylbenzene	9.8	10.0	98.0%	10.0	10.0	100%	2.0%
Bromobenzene	9.7	10.0	97.0%	9.7	10.0	97.0%	0.0%
2-Chlorotoluene	9.6	10.0	96.0%	10.0	10.0	100%	4.1%
4-Chlorotoluene	9.5	10.0	95.0%	9.6	10.0	96.0%	1.0%
tert-Butylbenzene	10.2	10.0	102%	10.5	10.0	105%	2.9%
sec-Butylbenzene	10.3	10.0	103%	10.7	10.0	107%	3.8%
4-Isopropyltoluene	10.3	10.0	103%	10.7	10.0	107%	3.8%
n-Butylbenzene	10.3	10.0	103%	10.7	10.0	107%	3.8%
1,2,4-Trichlorobenzene	10.5 B	10.0	105%	11.4 B	10.0	114%	8.2%
Naphthalene	10.4 B	10.0	104%	11.3 B	10.0	113%	8.3%
1,2,3-Trichlorobenzene	10.7 B	10.0	107%	11.4 B	10.0	114%	6.3%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	98.7%
d8-Toluene	97.7%	97.3%
Bromofluorobenzene	99.6%	100%
d4-1,2-Dichlorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112

LIMS ID: 12-1531

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC
Project: ALSKO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT2/PKC

LCSD: NT2/PKC

Date Analyzed LCS: 02/01/12 09:44

LCSD: 02/01/12 10:11

Sample Amount LCS: 10.0 mL

LCSD: 10.0 mL

Purge Volume LCS: 10.0 mL

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	10.8	10.0	108%	10.4	10.0	104%	3.8%
Bromomethane	11.2	10.0	112%	10.8	10.0	108%	3.6%
Vinyl Chloride	10.6	10.0	106%	10.4	10.0	104%	1.9%
Chloroethane	10.9	10.0	109%	10.6	10.0	106%	2.8%
Methylene Chloride	11.6	10.0	116%	11.2	10.0	112%	3.5%
Acetone	50.3	50.0	101%	52.9	50.0	106%	5.0%
Carbon Disulfide	11.7	10.0	117%	11.4	10.0	114%	2.6%
1,1-Dichloroethene	11.1	10.0	111%	10.8	10.0	108%	2.7%
1,1-Dichloroethane	11.5	10.0	115%	11.4	10.0	114%	0.9%
trans-1,2-Dichloroethene	11.6	10.0	116%	11.3	10.0	113%	2.6%
cis-1,2-Dichloroethene	11.5	10.0	115%	11.5	10.0	115%	0.0%
Chloroform	11.7	10.0	117%	11.8	10.0	118%	0.9%
1,2-Dichloroethane	11.0	10.0	110%	11.4	10.0	114%	3.6%
2-Butanone	49.8	50.0	99.6%	53.9	50.0	108%	7.9%
1,1,1-Trichloroethane	11.8	10.0	118%	11.6	10.0	116%	1.7%
Carbon Tetrachloride	14.0 Q	10.0	140%	13.8 Q	10.0	138%	1.4%
Vinyl Acetate	10.3	10.0	103%	10.8	10.0	108%	4.7%
Bromodichloromethane	12.8 Q	10.0	128%	13.0 Q	10.0	130%	1.6%
1,2-Dichloropropane	10.5	10.0	105%	10.7	10.0	107%	1.9%
cis-1,3-Dichloropropene	10.7	10.0	107%	10.8	10.0	108%	0.9%
Trichloroethene	11.2	10.0	112%	11.4	10.0	114%	1.8%
Dibromochloromethane	10.2	10.0	102%	10.5	10.0	105%	2.9%
1,1,2-Trichloroethane	10.4	10.0	104%	10.8	10.0	108%	3.8%
Benzene	11.1	10.0	111%	11.3	10.0	113%	1.8%
trans-1,3-Dichloropropene	10.6	10.0	106%	11.1	10.0	111%	4.6%
2-Chloroethylvinylether	8.6	10.0	86.0%	9.1	10.0	91.0%	5.6%
Bromoform	11.6	10.0	116%	12.2	10.0	122%	5.0%
4-Methyl-2-Pentanone (MIBK)	52.7	50.0	105%	55.6	50.0	111%	5.4%
2-Hexanone	47.1	50.0	94.2%	49.4	50.0	98.8%	4.8%
Tetrachloroethene	11.1	10.0	111%	11.0	10.0	110%	0.9%
1,1,2,2-Tetrachloroethane	10.2	10.0	102%	10.5	10.0	105%	2.9%
Toluene	10.5	10.0	105%	10.6	10.0	106%	0.9%
Chlorobenzene	10.3	10.0	103%	10.4	10.0	104%	1.0%
Ethylbenzene	10.6	10.0	106%	10.5	10.0	105%	0.9%
Styrene	10.6	10.0	106%	10.8	10.0	108%	1.9%
Trichlorofluoromethane	12.2	10.0	122%	11.8	10.0	118%	3.3%
1,1,2-Trichloro-1,2,2-trifluoroethane	11.3	10.0	113%	11.4	10.0	114%	0.9%
m,p-Xylene	21.5	20.0	108%	21.6	20.0	108%	0.5%
o-Xylene	11.0	10.0	110%	10.8	10.0	108%	1.8%
1,2-Dichlorobenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,3-Dichlorobenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,4-Dichlorobenzene	10.0	10.0	100%	10.2	10.0	102%	2.0%
Acrolein	47.8	50.0	95.6%	47.1	50.0	94.2%	1.5%
Methyl Iodide	11.2	10.0	112%	11.0	10.0	110%	1.8%
Bromoethane	11.2	10.0	112%	11.0	10.0	110%	1.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112
LIMS ID: 12-1531
Matrix: Water

QC Report No: UG19-Windward Environmental, LLC
Project: ALSOCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	10.9	10.0	109%	11.4	10.0	114%	4.5%
1,1-Dichloropropene	11.3	10.0	113%	11.5	10.0	115%	1.8%
Dibromomethane	11.2	10.0	112%	11.6	10.0	116%	3.5%
1,1,1,2-Tetrachloroethane	13.0 Q	10.0	130%	12.9 Q	10.0	129%	0.8%
1,2-Dibromo-3-chloropropane	12.1	10.0	121%	12.5	10.0	125%	3.3%
1,2,3-Trichloropropane	10.0	10.0	100%	10.2	10.0	102%	2.0%
trans-1,4-Dichloro-2-butene	9.4	10.0	94.0%	9.8	10.0	98.0%	4.2%
1,3,5-Trimethylbenzene	10.5	10.0	105%	10.6	10.0	106%	0.9%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.4	10.0	104%	0.0%
Hexachlorobutadiene	10.9 B	10.0	109%	10.9 B	10.0	109%	0.0%
Ethylene Dibromide	10.5	10.0	105%	11.0	10.0	110%	4.7%
Bromochloromethane	11.7	10.0	117%	11.5	10.0	115%	1.7%
2,2-Dichloropropane	11.2	10.0	112%	10.6	10.0	106%	5.5%
1,3-Dichloropropane	9.8	10.0	98.0%	10.0	10.0	100%	2.0%
Isopropylbenzene	10.4	10.0	104%	10.5	10.0	105%	1.0%
n-Propylbenzene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Bromobenzene	9.7	10.0	97.0%	10.0	10.0	100%	3.0%
2-Chlorotoluene	10.0	10.0	100%	10.0	10.0	100%	0.0%
4-Chlorotoluene	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
tert-Butylbenzene	10.4	10.0	104%	10.6	10.0	106%	1.9%
sec-Butylbenzene	10.6	10.0	106%	10.7	10.0	107%	0.9%
4-Isopropyltoluene	10.5	10.0	105%	10.7	10.0	107%	1.9%
n-Butylbenzene	10.6	10.0	106%	10.6	10.0	106%	0.0%
1,2,4-Trichlorobenzene	11.0 B	10.0	110%	11.1 B	10.0	111%	0.9%
Naphthalene	11.0 B	10.0	110%	11.1 B	10.0	111%	0.9%
1,2,3-Trichlorobenzene	11.5 B	10.0	115%	11.6 B	10.0	116%	0.9%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	105%
d8-Toluene	99.2%	98.8%
Bromofluorobenzene	99.5%	98.1%
d4-1,2-Dichlorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET

Volatile s by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: MB-013112

METHOD BLANK

Lab Sample ID: MB-013112

LIMS ID: 12-1530

Matrix: Water

Data Release Authorized: *BB*

Reported: 02/02/12

QC Report No: UG19-Windward Environmental, LLC

Project: ALSKO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT2/PKC

Date Analyzed: 01/31/12 10:23

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-013112
METHOD BLANK

Lab Sample ID: MB-013112

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1530

Matrix: Water

Date Analyzed: 01/31/12 10:23

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	0.2	J
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	0.1	J
91-20-3	Naphthalene	0.5	0.2	J
87-61-6	1,2,3-Trichlorobenzene	0.5	0.2	J

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	95.8%
Bromofluorobenzene	97.3%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

QC Report No: UG19-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1531

Matrix: Water

Data Release Authorized:

Reported: 02/02/12

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT2/PKC

Sample Amount: 10.0 mL

Date Analyzed: 02/01/12 10:38

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

QC Report No: UG19-Windward Environmental, LLC
Project: ALS CO Dexter

LIMS ID: 12-1531

Matrix: Water

Date Analyzed: 02/01/12 10:38

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	0.2	J
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	0.1	J
91-20-3	Naphthalene	0.5	0.2	J
87-61-6	1,2,3-Trichlorobenzene	0.5	0.2	J

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	96.8%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	100%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 6, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: ALSCO Dexter
ARI Job No.: UG31

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted five soil samples, three waters samples, and one trip blank on January 30, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 4.6°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The soil continuing calibration (CCAL) fell outside the 20% control limit low for Chloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Methylene Chloride and Naphthalene were present in the soil method blank **MB-020212** at levels that were greater than ½ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

The soil medium level LCSD percent recoveries of Chloroethane and Methylene Chloride fell outside the control limits low for **LCS-020212**. No corrective action was taken.

Several soil matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits for sample **SB-W-06-0305**. No corrective action is required for matrix QC.

The water CCAL on February 1, 2012 was outside the 20% control limit high for Carbon Tetrachloride, Bromodichloromethane, and 1,1,1,2-Tetrachloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

The water CCAL on February 2, 2012 was outside the 20% control limit high for Carbon Tetrachloride, Bromodichloromethane, 1,1,1,2-Tetrachloroethane, and Bromoform. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

The water LCS and LCSD percent recoveries of Carbon Tetrachloride, Bromodichloromethane, 1,1,1,2-Tetrachloroethane, and 1,2-Dibromo-3-chloropropane were outside the control limits high for **LCS-020112**. No corrective action was taken.

The water LCSD percent recovery of Bromoform and the LCS percent recovery of Trichlorofluoromethane were outside the control limits high for **LCS-020112**. No corrective action was taken.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

The water LCS and LCSD percent recoveries of Carbon Tetrachloride, Bromodichloromethane, Bromoform, 1,1,1,2-Tetrachloroethane, and 1,2-Dibromo-3-chloropropane were outside the control limits high for **LCS-020212**. No corrective action was taken.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature of "Cheronne Oreiro" is written over a large, faint oval-shaped redaction mark.

Cheronne Oreiro
Project Manager
-For-
Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UG31



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward

COC No(s): 2880 NA

Assigned ARI Job No: 16731

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 4.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9094619

Cooler Accepted by: AV

Date: 1/30/12

Time: 1725

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other

Was sufficient ice used (if appropriate)? YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: 1/23/12

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____

Split by: _____

Samples Logged by: AV Date: 1/30/12 Time: 1735

*** Notify Project Manager of discrepancies or concerns ***

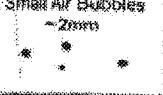
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

TB=1pb

By: AV

Date: 1/30/12

<small>Small Air Bubbles ~2mm</small> 	<small>Peabubbles 2-4 mm</small> 	<small>LARGE Air Bubbles > 4 mm</small> 	<small>Small → "sm"</small> <small>Peabubbles → "pb"</small> <small>Large → "lg"</small> <small>Headspace → "hs"</small>

Sample ID Cross Reference Report

ARI Job No: UG31
Client: Windward Environmental, LLC
Project Event: N/A
Project Name: Alsco Dexter

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SB-W-06-0305	UG31A	12-1560	Soil	01/30/12 12:30	01/30/12 17:25
2. SB-W-06-0380	UG31B	12-1561	Soil	01/30/12 12:35	01/30/12 17:25
3. SB-W-06-0485	UG31C	12-1562	Soil	01/30/12 13:40	01/30/12 17:25
4. SB-W-06-9485	UG31D	12-1563	Soil	01/30/12 13:45	01/30/12 17:25
5. SB-W-06-0405	UG31E	12-1564	Soil	01/30/12 13:30	01/30/12 17:25
6. SB-W-06-0200	UG31F	12-1565	Water	01/30/12 09:40	01/30/12 17:25
7. SB-W-06-0400	UG31G	12-1566	Water	01/30/12 12:25	01/30/12 17:25
8. SB-W-06-0600	UG31H	12-1567	Water	01/30/12 15:35	01/30/12 17:25
9. Trip Blank	UG31I	12-1568	Water	01/30/12	01/30/12 17:25

Printed 01/30/12

UG31 : 000005



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-06-0305
SAMPLE

Lab Sample ID: UG31A

LIMS ID: 12-1560

Matrix: Soil

Data Release Authorized: *B*

Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12

Date Received: 01/30/12

Instrument/Analyst: NT9/PAB

Date Analyzed: 02/02/12 16:52

Sample Amount: 18.8 mg-dry-wt

Purge Volume: 5.0 mL

Moisture: 10.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	270	< 270	U
74-83-9	Bromomethane	270	< 270	U
75-01-4	Vinyl Chloride	270	< 270	U
75-00-3	Chloroethane	270	< 270	U
75-09-2	Methylene Chloride	530	< 530	U
67-64-1	Acetone	1,300	< 1,300	U
75-15-0	Carbon Disulfide	270	< 270	U
75-35-4	1,1-Dichloroethene	270	< 270	U
75-34-3	1,1-Dichloroethane	270	< 270	U
156-60-5	trans-1,2-Dichloroethene	270	< 270	U
156-59-2	cis-1,2-Dichloroethene	270	400	
67-66-3	Chloroform	270	< 270	U
107-06-2	1,2-Dichloroethane	270	< 270	U
78-93-3	2-Butanone	1,300	< 1,300	U
71-55-6	1,1,1-Trichloroethane	270	< 270	U
56-23-5	Carbon Tetrachloride	270	< 270	U
108-05-4	Vinyl Acetate	1,300	< 1,300	U
75-27-4	Bromodichloromethane	270	< 270	U
78-87-5	1,2-Dichloropropane	270	< 270	U
10061-01-5	cis-1,3-Dichloropropene	270	< 270	U
79-01-6	Trichloroethene	270	410	
124-48-1	Dibromochloromethane	270	< 270	U
79-00-5	1,1,2-Trichloroethane	270	< 270	U
71-43-2	Benzene	270	< 270	U
10061-02-6	trans-1,3-Dichloropropene	270	< 270	U
110-75-8	2-Chloroethylvinylether	1,300	< 1,300	U
75-25-2	Bromoform	270	< 270	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	< 1,300	U
591-78-6	2-Hexanone	1,300	< 1,300	U
127-18-4	Tetrachloroethene	270	18,000	
79-34-5	1,1,2,2-Tetrachloroethane	270	< 270	U
108-88-3	Toluene	270	< 270	U
108-90-7	Chlorobenzene	270	< 270	U
100-41-4	Ethylbenzene	270	< 270	U
100-42-5	Styrene	270	< 270	U
75-69-4	Trichlorofluoromethane	270	< 270	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	530	< 530	U
179601-23-1	m,p-Xylene	270	< 270	U
95-47-6	o-Xylene	270	< 270	U
95-50-1	1,2-Dichlorobenzene	270	< 270	U
541-73-1	1,3-Dichlorobenzene	270	< 270	U
106-46-7	1,4-Dichlorobenzene	270	< 270	U
107-02-8	Acrolein	13,000	< 13,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0305
SAMPLE

Lab Sample ID: UG31A
LIMS ID: 12-1560
Matrix: Soil
Date Analyzed: 02/02/12 16:52

QC Report No: UG31-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	270	< 270	U
74-96-4	Bromoethane	530	< 530	U
107-13-1	Acrylonitrile	1,300	< 1,300	U
563-58-6	1,1-Dichloropropene	270	< 270	U
74-95-3	Dibromomethane	270	< 270	U
630-20-6	1,1,1,2-Tetrachloroethane	270	< 270	U
96-12-8	1,2-Dibromo-3-chloropropane	1,300	< 1,300	U
96-18-4	1,2,3-Trichloropropane	530	< 530	U
110-57-6	trans-1,4-Dichloro-2-butene	1,300	< 1,300	U
108-67-8	1,3,5-Trimethylbenzene	270	< 270	U
95-63-6	1,2,4-Trimethylbenzene	270	< 270	U
87-68-3	Hexachlorobutadiene	1,300	< 1,300	U
106-93-4	Ethylene Dibromide	270	< 270	U
74-97-5	Bromochloromethane	270	< 270	U
594-20-7	2,2-Dichloropropane	270	< 270	U
142-28-9	1,3-Dichloropropane	270	< 270	U
98-82-8	Isopropylbenzene	270	< 270	U
103-65-1	n-Propylbenzene	270	< 270	U
108-86-1	Bromobenzene	270	< 270	U
95-49-8	2-Chlorotoluene	270	< 270	U
106-43-4	4-Chlorotoluene	270	< 270	U
98-06-6	tert-Butylbenzene	270	< 270	U
135-98-8	sec-Butylbenzene	270	< 270	U
99-87-6	4-Isopropyltoluene	270	< 270	U
104-51-8	n-Butylbenzene	270	< 270	U
120-82-1	1,2,4-Trichlorobenzene	1,300	< 1,300	U
91-20-3	Naphthalene	1,300	< 1,300	U
87-61-6	1,2,3-Trichlorobenzene	1,300	< 1,300	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.7%
d8-Toluene	96.8%
Bromofluorobenzene	94.4%
d4-1,2-Dichlorobenzene	100%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0380
SAMPLE

Lab Sample ID: UG31B
LIMS ID: 12-1561
Matrix: Soil
Data Release Authorized: *P*
Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 12:07

Sample Amount: 108 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	46	< 46	U
74-83-9	Bromomethane	46	25	J
75-01-4	Vinyl Chloride	46	< 46	U
75-00-3	Chloroethane	46	< 46	U
75-09-2	Methylene Chloride	92	< 92	U
67-64-1	Acetone	230	150	J
75-15-0	Carbon Disulfide	46	< 46	U
75-35-4	1,1-Dichloroethene	46	< 46	U
75-34-3	1,1-Dichloroethane	46	< 46	U
156-60-5	trans-1,2-Dichloroethene	46	< 46	U
156-59-2	cis-1,2-Dichloroethene	46	520	
67-66-3	Chloroform	46	< 46	U
107-06-2	1,2-Dichloroethane	46	< 46	U
78-93-3	2-Butanone	230	< 230	U
71-55-6	1,1,1-Trichloroethane	46	< 46	U
56-23-5	Carbon Tetrachloride	46	< 46	U
108-05-4	Vinyl Acetate	230	< 230	U
75-27-4	Bromodichloromethane	46	< 46	U
78-87-5	1,2-Dichloropropane	46	< 46	U
10061-01-5	cis-1,3-Dichloropropene	46	< 46	U
79-01-6	Trichloroethene	46	57	
124-48-1	Dibromochloromethane	46	< 46	U
79-00-5	1,1,2-Trichloroethane	46	< 46	U
71-43-2	Benzene	46	< 46	U
10061-02-6	trans-1,3-Dichloropropene	46	< 46	U
110-75-8	2-Chloroethylvinylether	230	< 230	U
75-25-2	Bromoform	46	< 46	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	230	< 230	U
591-78-6	2-Hexanone	230	< 230	U
127-18-4	Tetrachloroethene	46	140	
79-34-5	1,1,2,2-Tetrachloroethane	46	< 46	U
108-88-3	Toluene	46	< 46	U
108-90-7	Chlorobenzene	46	< 46	U
100-41-4	Ethylbenzene	46	< 46	U
100-42-5	Styrene	46	< 46	U
75-69-4	Trichlorofluoromethane	46	< 46	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	92	< 92	U
179601-23-1	m,p-Xylene	46	< 46	U
95-47-6	o-Xylene	46	< 46	U
95-50-1	1,2-Dichlorobenzene	46	< 46	U
541-73-1	1,3-Dichlorobenzene	46	< 46	U
106-46-7	1,4-Dichlorobenzene	46	< 46	U
107-02-8	Acrolein	2,300	< 2,300	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0380
SAMPLE

Lab Sample ID: UG31B
LIMS ID: 12-1561
Matrix: Soil
Date Analyzed: 02/02/12 12:07

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	46	< 46	U
74-96-4	Bromoethane	92	< 92	U
107-13-1	Acrylonitrile	230	< 230	U
563-58-6	1,1-Dichloropropene	46	< 46	U
74-95-3	Dibromomethane	46	< 46	U
630-20-6	1,1,1,2-Tetrachloroethane	46	< 46	U
96-12-8	1,2-Dibromo-3-chloropropane	230	< 230	U
96-18-4	1,2,3-Trichloropropane	92	< 92	U
110-57-6	trans-1,4-Dichloro-2-butene	230	< 230	U
108-67-8	1,3,5-Trimethylbenzene	46	< 46	U
95-63-6	1,2,4-Trimethylbenzene	46	< 46	U
87-68-3	Hexachlorobutadiene	230	< 230	U
106-93-4	Ethylene Dibromide	46	< 46	U
74-97-5	Bromochloromethane	46	< 46	U
594-20-7	2,2-Dichloropropane	46	< 46	U
142-28-9	1,3-Dichloropropane	46	< 46	U
98-82-8	Isopropylbenzene	46	< 46	U
103-65-1	n-Propylbenzene	46	< 46	U
108-86-1	Bromobenzene	46	< 46	U
95-49-8	2-Chlorotoluene	46	< 46	U
106-43-4	4-Chlorotoluene	46	< 46	U
98-06-6	tert-Butylbenzene	46	< 46	U
135-98-8	sec-Butylbenzene	46	< 46	U
99-87-6	4-Isopropyltoluene	46	< 46	U
104-51-8	n-Butylbenzene	46	< 46	U
120-82-1	1,2,4-Trichlorobenzene	230	< 230	U
91-20-3	Naphthalene	230	< 230	U
87-61-6	1,2,3-Trichlorobenzene	230	< 230	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.8%
d8-Toluene	96.0%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	101%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0485
SAMPLE

Lab Sample ID: UG31C
LIMS ID: 12-1562
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSOCO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 17:13

Sample Amount: 6.21 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 6.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.6	1.6	B
67-64-1	Acetone	4.0	8.8	
75-15-0	Carbon Disulfide	0.8	0.5	J
75-35-4	1,1-Dichloroethene	0.8	< 0.8	U
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	0.9	
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	4.0	< 4.0	U
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	4.0	< 4.0	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	0.7	J
124-48-1	Dibromo-chloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	4.0	< 4.0	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.0	< 4.0	U
591-78-6	2-Hexanone	4.0	< 4.0	U
127-18-4	Tetrachloroethene	0.8	33	
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	< 0.8	U
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.6	< 1.6	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	40	< 40	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-06-0485

**ANALYTICAL
RESOURCES
INCORPORATED**


Lab Sample ID: UG31C

LIMS ID: 12-1562

Matrix: Soil

Date Analyzed: 02/02/12 17:13

 QC Report No: UG31-Windward Environmental, LLC
 Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.6	< 1.6	U
107-13-1	Acrylonitrile	4.0	< 4.0	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.0	< 4.0	U
96-18-4	1,2,3-Trichloropropane	1.6	< 1.6	U
110-57-6	trans-1,4-Dichloro-2-butene	4.0	< 4.0	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	4.0	< 4.0	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	4.0	< 4.0	U
91-20-3	Naphthalene	4.0	< 4.0	U
87-61-6	1,2,3-Trichlorobenzene	4.0	< 4.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	97.9%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-9485
SAMPLE

Lab Sample ID: UG31D
LIMS ID: 12-1563
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 17:34

Sample Amount: 5.48 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 6.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.8	1.9	B
67-64-1	Acetone	4.6	10	
75-15-0	Carbon Disulfide	0.9	0.7	J
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	1.0	
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.6	< 4.6	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.6	< 4.6	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	1.1	
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.6	< 4.6	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.6	< 4.6	U
591-78-6	2-Hexanone	4.6	< 4.6	U
127-18-4	Tetrachloroethene	0.9	52	
79-34-5	1,1,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	< 0.9	U
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.8	< 1.8	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	46	< 46	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-06-9485
SAMPLE

Lab Sample ID: UG31D

LIMS ID: 12-1563

Matrix: Soil

Date Analyzed: 02/02/12 17:34

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.8	< 1.8	U
107-13-1	Acrylonitrile	4.6	< 4.6	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	< 4.6	U
96-18-4	1,2,3-Trichloropropane	1.8	< 1.8	U
110-57-6	trans-1,4-Dichloro-2-butene	4.6	< 4.6	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.6	< 4.6	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.6	< 4.6	U
91-20-3	Naphthalene	4.6	< 4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	< 4.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.4%
d8-Toluene	96.5%
Bromofluorobenzene	96.0%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Lab Sample ID: UG31E

LIMS ID: 12-1564

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

Sample ID: SB-W-06-0405

SAMPLE

**ANALYTICAL
RESOURCES
INCORPORATED**


 QC Report No: UG31-Windward Environmental, LLC
 Project: ALSCO Dexter

Date Sampled: 01/30/12

Date Received: 01/30/12

 Instrument/Analyst: NT9/PAB
 Date Analyzed: 02/02/12 13:11

 Sample Amount: 139 mg-dry-wt
 Purge Volume: 5.0 mL
 Moisture: 7.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	36	< 36	U
74-83-9	Bromomethane	36	< 36	U
75-01-4	Vinyl Chloride	36	< 36	U
75-00-3	Chloroethane	36	< 36	U
75-09-2	Methylene Chloride	72	< 72	U
67-64-1	Acetone	180	190	
75-15-0	Carbon Disulfide	36	< 36	U
75-35-4	1,1-Dichloroethene	36	< 36	U
75-34-3	1,1-Dichloroethane	36	< 36	U
156-60-5	trans-1,2-Dichloroethene	36	< 36	U
156-59-2	cis-1,2-Dichloroethene	36	150	
67-66-3	Chloroform	36	< 36	U
107-06-2	1,2-Dichloroethane	36	< 36	U
78-93-3	2-Butanone	180	< 180	U
71-55-6	1,1,1-Trichloroethane	36	< 36	U
56-23-5	Carbon Tetrachloride	36	< 36	U
108-05-4	Vinyl Acetate	180	< 180	U
75-27-4	Bromodichloromethane	36	< 36	U
78-87-5	1,2-Dichloropropane	36	< 36	U
10061-01-5	cis-1,3-Dichloropropene	36	< 36	U
79-01-6	Trichloroethene	36	200	
124-48-1	Dibromochloromethane	36	< 36	U
79-00-5	1,1,2-Trichloroethane	36	< 36	U
71-43-2	Benzene	36	< 36	U
10061-02-6	trans-1,3-Dichloropropene	36	< 36	U
110-75-8	2-Chloroethylvinylether	180	< 180	U
75-25-2	Bromoform	36	< 36	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	180	< 180	U
591-78-6	2-Hexanone	180	< 180	U
127-18-4	Tetrachloroethene	36	5,200	
79-34-5	1,1,2,2-Tetrachloroethane	36	< 36	U
108-88-3	Toluene	36	< 36	U
108-90-7	Chlorobenzene	36	< 36	U
100-41-4	Ethylbenzene	36	< 36	U
100-42-5	Styrene	36	< 36	U
75-69-4	Trichlorofluoromethane	36	< 36	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	72	< 72	U
179601-23-1	m,p-Xylene	36	< 36	U
95-47-6	<i>o</i> -Xylene	36	< 36	U
95-50-1	1,2-Dichlorobenzene	36	< 36	U
541-73-1	1,3-Dichlorobenzene	36	< 36	U
106-46-7	1,4-Dichlorobenzene	36	< 36	U
107-02-8	Acrolein	1,800	< 1,800	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0405
SAMPLE

Lab Sample ID: UG31E
LIMS ID: 12-1564
Matrix: Soil
Date Analyzed: 02/02/12 13:11

QC Report No: UG31-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	36	< 36	U
74-96-4	Bromoethane	72	< 72	U
107-13-1	Acrylonitrile	180	< 180	U
563-58-6	1,1-Dichloropropene	36	< 36	U
74-95-3	Dibromomethane	36	< 36	U
630-20-6	1,1,1,2-Tetrachloroethane	36	< 36	U
96-12-8	1,2-Dibromo-3-chloropropane	180	< 180	U
96-18-4	1,2,3-Trichloropropane	72	< 72	U
110-57-6	trans-1,4-Dichloro-2-butene	180	< 180	U
108-67-8	1,3,5-Trimethylbenzene	36	< 36	U
95-63-6	1,2,4-Trimethylbenzene	36	< 36	U
87-68-3	Hexachlorobutadiene	180	< 180	U
106-93-4	Ethylene Dibromide	36	< 36	U
74-97-5	Bromochloromethane	36	< 36	U
594-20-7	2,2-Dichloropropane	36	< 36	U
142-28-9	1,3-Dichloropropane	36	< 36	U
98-82-8	Isopropylbenzene	36	< 36	U
103-65-1	n-Propylbenzene	36	< 36	U
108-86-1	Bromobenzene	36	< 36	U
95-49-8	2-Chlorotoluene	36	< 36	U
106-43-4	4-Chlorotoluene	36	< 36	U
98-06-6	tert-Butylbenzene	36	< 36	U
135-98-8	sec-Butylbenzene	36	< 36	U
99-87-6	4-Isopropyltoluene	36	< 36	U
104-51-8	n-Butylbenzene	36	< 36	U
120-82-1	1,2,4-Trichlorobenzene	180	< 180	U
91-20-3	Naphthalene	180	< 180	U
87-61-6	1,2,3-Trichlorobenzene	180	< 180	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.1%
d8-Toluene	97.3%
Bromofluorobenzene	96.7%
d4-1,2-Dichlorobenzene	99.5%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

 QC Report No: UG31-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-020212	Method Blank	Med	89.8%	96.4%	95.7%	99.8%	0
LCS-020212	Lab Control	Med	84.6%	96.6%	97.6%	98.4%	0
LCSD-020212	Lab Control Dup	Med	88.3%	96.5%	99.2%	98.7%	0
UG31A	SB-W-06-0305	Med	85.7%	96.8%	94.4%	100%	0
UG31AMS	SB-W-06-0305	Med	84.7%	98.4%	99.2%	99.1%	0
UG31AMSD	SB-W-06-0305	Med	85.1%	98.5%	97.9%	98.1%	0
UG31B	SB-W-06-0380	Med	87.8%	96.0%	96.2%	101%	0
UG31C	SB-W-06-0485	Low	101%	97.9%	98.4%	105%	0
MB-020212	Method Blank	Low	89.8%	96.4%	95.7%	99.8%	0
LCS-020212	Lab Control	Low	84.6%	96.6%	97.6%	98.4%	0
LCSD-020212	Lab Control Dup	Low	88.3%	96.5%	99.2%	98.7%	0
UG31D	SB-W-06-9485	Low	97.4%	96.5%	96.0%	104%	0
UG31E	SB-W-06-0405	Med	87.1%	97.3%	96.7%	99.5%	0

LCS/ME LIMITS

SW8260C	LOW	Med	LOW	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 12-1560 to 12-1564

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: SB-W-06-0305

MATRIX SPIKE

Lab Sample ID: UG31A

LIMS ID: 12-1560

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: 01/30/12

Date Received: 01/30/12

Instrument/Analyst MS: NT9/PAB

MSD: NT9/PAB

Date Analyzed MS: 02/02/12 19:21

MSD: 02/02/12 19:42

Sample Amount MS: 18.8 mg-dry-wt

MSD: 18.8 mg-dry-wt

Purge Volume MS: 5.0 mL

MSD: 5.0 mL

Moisture: 10.9%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	MSD RPD
Chloromethane	< 266 U	10600	13300	79.7%	10700	13300	80.5%	0.9%
Bromomethane	< 266 U	9980	13300	75.0%	10200	13300	76.7%	2.2%
Vinyl Chloride	< 266 U	11000	13300	82.7%	11000	13300	82.7%	0.0%
Chloroethane	< 266 U	8730 Q	13300	65.6%	8900 Q	13300	66.9%	1.9%
Methylene Chloride	< 532 U	9960 B	13300	74.9%	10600 B	13300	79.7%	6.2%
Acetone	< 1330 U	56100	66500	84.4%	59500	66500	89.5%	5.9%
Carbon Disulfide	< 266 U	10300	13300	77.4%	10600	13300	79.7%	2.9%
1,1-Dichloroethene	< 266 U	10200	13300	76.7%	10600	13300	79.7%	3.8%
1,1-Dichloroethane	< 266 U	9350	13300	70.3%	9900	13300	74.4%	5.7%
trans-1,2-Dichloroethene	< 266 U	10400	13300	78.2%	10700	13300	80.5%	2.8%
cis-1,2-Dichloroethene	405	11400	13300	82.7%	11500	13300	83.4%	0.9%
Chloroform	< 266 U	10800	13300	81.2%	11000	13300	82.7%	1.8%
1,2-Dichloroethane	< 266 U	12200	13300	91.7%	12600	13300	94.7%	3.2%
2-Butanone	< 1330 U	55900	66500	84.1%	59900	66500	90.1%	6.9%
1,1,1-Trichloroethane	< 266 U	10200	13300	76.7%	10600	13300	79.7%	3.8%
Carbon Tetrachloride	< 266 U	9260	13300	69.6%	9610	13300	72.3%	3.7%
Vinyl Acetate	< 1330 U	11200	13300	84.2%	11800	13300	88.7%	5.2%
Bromodichloromethane	< 266 U	13100	13300	98.5%	13400	13300	101%	2.3%
1,2-Dichloropropane	< 266 U	12700	13300	95.5%	13100	13300	98.5%	3.1%
cis-1,3-Dichloropropene	< 266 U	13400	13300	101%	13800	13300	104%	2.9%
Trichloroethene	410	12300	13300	89.4%	12500	13300	90.9%	1.6%
Dibromochloromethane	< 266 U	11300	13300	85.0%	11600	13300	87.2%	2.6%
1,1,2-Trichloroethane	< 266 U	13500	13300	102%	13900	13300	105%	2.9%
Benzene	< 266 U	12300	13300	92.5%	12700	13300	95.5%	3.2%
trans-1,3-Dichloropropene	< 266 U	13800	13300	104%	14300	13300	108%	3.6%
2-Chloroethylvinylether	< 1330 U	11000	13300	82.7%	12100	13300	91.0%	9.5%
Bromoform	< 266 U	11100	13300	83.5%	11800	13300	88.7%	6.1%
4-Methyl-2-Pentanone (MIBK)	< 1330 U	67900	66500	102%	72100	66500	108%	6.0%
2-Hexanone	< 1330 U	63600	66500	95.6%	67800	66500	102%	6.4%
Tetrachloroethene	17800	26600	13300	66.2%	25400	13300	57.1%	4.6%
1,1,2,2-Tetrachloroethane	< 266 U	13400	13300	101%	14400	13300	108%	7.2%
Toluene	< 266 U	12100	13300	91.0%	12500	13300	94.0%	3.3%
Chlorobenzene	< 266 U	12500	13300	94.0%	12900	13300	97.0%	3.1%
Ethylbenzene	< 266 U	12200	13300	91.7%	12600	13300	94.7%	3.2%
Styrene	< 266 U	13400	13300	101%	13700	13300	103%	2.2%
Trichlorofluoromethane	< 266 U	11400	13300	85.7%	11500	13300	86.5%	0.9%
1,1,2-Trichloro-1,2,2-trifl	< 532 U	10100	13300	75.9%	10600	13300	79.7%	4.8%
m,p-Xylene	< 266 U	25300	26600	95.1%	26000	26600	97.7%	2.7%
o-Xylene	< 266 U	12800	13300	96.2%	13000	13300	97.7%	1.6%
1,2-Dichlorobenzene	< 266 U	12400	13300	93.2%	13000	13300	97.7%	4.7%
1,3-Dichlorobenzene	< 266 U	12100	13300	91.0%	12700	13300	95.5%	4.8%
1,4-Dichlorobenzene	< 266 U	11800	13300	88.7%	12500	13300	94.0%	5.8%
Acrolein	< 13300 U	53100	66500	79.8%	57500	66500	86.5%	8.0%
Methyl Iodide	< 266 U	12900	13300	97.0%	14200	13300	107%	9.6%
Bromoethane	< 532 U	10700	13300	80.5%	11300	13300	85.0%	5.5%
Acrylonitrile	< 1330 U	11000	13300	82.7%	11800	13300	88.7%	7.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0305
MATRIX SPIKE

Lab Sample ID: UG31A
LIMS ID: 12-1560
Matrix: Soil

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,1-Dichloropropene	< 266 U	11300	13300	85.0%	11700	13300	88.0%	3.5%
Dibromomethane	< 266 U	13000	13300	97.7%	13500	13300	102%	3.8%
1,1,1,2-Tetrachloroethane	< 266 U	13600	13300	102%	14000	13300	105%	2.9%
1,2-Dibromo-3-chloropropane	< 1330 U	13200	13300	99.2%	14100	13300	106%	6.6%
1,2,3-Trichloropropane	< 532 U	13300	13300	100%	14500	13300	109%	8.6%
trans-1,4-Dichloro-2-butene	< 1330 U	12600	13300	94.7%	13800	13300	104%	9.1%
1,3,5-Trimethylbenzene	< 266 U	12200	13300	91.7%	12900	13300	97.0%	5.6%
1,2,4-Trimethylbenzene	< 266 U	12200	13300	91.7%	12900	13300	97.0%	5.6%
Hexachlorobutadiene	< 1330 U	11400	13300	85.7%	12100	13300	91.0%	6.0%
Ethylene Dibromide	< 266 U	13600	13300	102%	14200	13300	107%	4.3%
Bromochlormethane	< 266 U	11500	13300	86.5%	11800	13300	88.7%	2.6%
2,2-Dichloropropane	< 266 U	9750	13300	73.3%	10100	13300	75.9%	3.5%
1,3-Dichloropropane	< 266 U	12900	13300	97.0%	13400	13300	101%	3.8%
Isopropylbenzene	< 266 U	12300	13300	92.5%	13100	13300	98.5%	6.3%
n-Propylbenzene	< 266 U	12100	13300	91.0%	12800	13300	96.2%	5.6%
Bromobenzene	< 266 U	12600	13300	94.7%	13300	13300	100%	5.4%
2-Chlorotoluene	< 266 U	12200	13300	91.7%	12900	13300	97.0%	5.6%
4-Chlorotoluene	< 266 U	11800	13300	88.7%	12500	13300	94.0%	5.8%
tert-Butylbenzene	< 266 U	12100	13300	91.0%	13000	13300	97.7%	7.2%
sec-Butylbenzene	< 266 U	12100	13300	91.0%	13000	13300	97.7%	7.2%
4-Isopropyltoluene	< 266 U	12000	13300	90.2%	12900	13300	97.0%	7.2%
n-Butylbenzene	< 266 U	11500	13300	86.5%	12200	13300	91.7%	5.9%
1,2,4-Trichlorobenzene	< 1330 U	11300	13300	85.0%	11800	13300	88.7%	4.3%
Naphthalene	< 1330 U	12400 B	13300	93.2%	13500 B	13300	102%	8.5%
1,2,3-Trichlorobenzene	< 1330 U	11900	13300	89.5%	12500	13300	94.0%	4.9%

Reported in **µg/kg (ppb)**

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0305
MATRIX SPIKE

Lab Sample ID: UG31A
LIMS ID: 12-1560
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSKO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 19:21

Sample Amount: 18.8 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 10.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	270	---	
74-83-9	Bromomethane	270	---	
75-01-4	Vinyl Chloride	270	---	
75-00-3	Chloroethane	270	---	
75-09-2	Methylene Chloride	530	---	
67-64-1	Acetone	1,300	---	
75-15-0	Carbon Disulfide	270	---	
75-35-4	1,1-Dichloroethene	270	---	
75-34-3	1,1-Dichloroethane	270	---	
156-60-5	trans-1,2-Dichloroethene	270	---	
156-59-2	cis-1,2-Dichloroethene	270	---	
67-66-3	Chloroform	270	---	
107-06-2	1,2-Dichloroethane	270	---	
78-93-3	2-Butanone	1,300	---	
71-55-6	1,1,1-Trichloroethane	270	---	
56-23-5	Carbon Tetrachloride	270	---	
108-05-4	Vinyl Acetate	1,300	---	
75-27-4	Bromodichloromethane	270	---	
78-87-5	1,2-Dichloropropane	270	---	
10061-01-5	cis-1,3-Dichloropropene	270	---	
79-01-6	Trichloroethene	270	---	
124-48-1	Dibromochloromethane	270	---	
79-00-5	1,1,2-Trichloroethane	270	---	
71-43-2	Benzene	270	---	
10061-02-6	trans-1,3-Dichloropropene	270	---	
110-75-8	2-Chloroethylvinylether	1,300	---	
75-25-2	Bromoform	270	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	---	
591-78-6	2-Hexanone	1,300	---	
127-18-4	Tetrachloroethene	270	---	
79-34-5	1,1,2,2-Tetrachloroethane	270	---	
108-88-3	Toluene	270	---	
108-90-7	Chlorobenzene	270	---	
100-41-4	Ethylbenzene	270	---	
100-42-5	Styrene	270	---	
75-69-4	Trichlorofluoromethane	270	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	530	---	
179601-23-1	m,p-Xylene	270	---	
95-47-6	o-Xylene	270	---	
95-50-1	1,2-Dichlorobenzene	270	---	
541-73-1	1,3-Dichlorobenzene	270	---	
106-46-7	1,4-Dichlorobenzene	270	---	
107-02-8	Acrolein	13,000	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0305
MATRIX SPIKE

Lab Sample ID: UG31A
LIMS ID: 12-1560
Matrix: Soil
Date Analyzed: 02/02/12 19:21

QC Report No: UG31-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	270	---	
74-96-4	Bromoethane	530	---	
107-13-1	Acrylonitrile	1,300	---	
563-58-6	1,1-Dichloropropene	270	---	
74-95-3	Dibromomethane	270	---	
630-20-6	1,1,1,2-Tetrachloroethane	270	---	
96-12-8	1,2-Dibromo-3-chloropropane	1,300	---	
96-18-4	1,2,3-Trichloropropane	530	---	
110-57-6	trans-1,4-Dichloro-2-butene	1,300	---	
108-67-8	1,3,5-Trimethylbenzene	270	---	
95-63-6	1,2,4-Trimethylbenzene	270	---	
87-68-3	Hexachlorobutadiene	1,300	---	
106-93-4	Ethylene Dibromide	270	---	
74-97-5	Bromochloromethane	270	---	
594-20-7	2,2-Dichloropropane	270	---	
142-28-9	1,3-Dichloropropane	270	---	
98-82-8	Isopropylbenzene	270	---	
103-65-1	n-Propylbenzene	270	---	
108-86-1	Bromobenzene	270	---	
95-49-8	2-Chlorotoluene	270	---	
106-43-4	4-Chlorotoluene	270	---	
98-06-6	tert-Butylbenzene	270	---	
135-98-8	sec-Butylbenzene	270	---	
99-87-6	4-Isopropyltoluene	270	---	
104-51-8	n-Butylbenzene	270	---	
120-82-1	1,2,4-Trichlorobenzene	1,300	---	
91-20-3	Naphthalene	1,300	---	
87-61-6	1,2,3-Trichlorobenzene	1,300	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	84.7%
d8-Toluene	98.4%
Bromofluorobenzene	99.2%
d4-1,2-Dichlorobenzene	99.1%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0305
MATRIX SPIKE DUP

Lab Sample ID: UG31A
LIMS ID: 12-1560

QC Report No: UG31-Windward Environmental, LLC
Project: ALSOCO Dexter

Matrix: Soil
Data Release Authorized: *A*
Reported: 02/03/12

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 19:42

Sample Amount: 18.8 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 10.9%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	270	---	
74-83-9	Bromomethane	270	---	
75-01-4	Vinyl Chloride	270	---	
75-00-3	Chloroethane	270	---	
75-09-2	Methylene Chloride	530	---	
67-64-1	Acetone	1,300	---	
75-15-0	Carbon Disulfide	270	---	
75-35-4	1,1-Dichloroethene	270	---	
75-34-3	1,1-Dichloroethane	270	---	
156-60-5	trans-1,2-Dichloroethene	270	---	
156-59-2	cis-1,2-Dichloroethene	270	---	
67-66-3	Chloroform	270	---	
107-06-2	1,2-Dichloroethane	270	---	
78-93-3	2-Butanone	1,300	---	
71-55-6	1,1,1-Trichloroethane	270	---	
56-23-5	Carbon Tetrachloride	270	---	
108-05-4	Vinyl Acetate	1,300	---	
75-27-4	Bromodichloromethane	270	---	
78-87-5	1,2-Dichloropropane	270	---	
10061-01-5	cis-1,3-Dichloropropene	270	---	
79-01-6	Trichloroethene	270	---	
124-48-1	Dibromochloromethane	270	---	
79-00-5	1,1,2-Trichloroethane	270	---	
71-43-2	Benzene	270	---	
10061-02-6	trans-1,3-Dichloropropene	270	---	
110-75-8	2-Chloroethylvinylether	1,300	---	
75-25-2	Bromoform	270	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,300	---	
591-78-6	2-Hexanone	1,300	---	
127-18-4	Tetrachloroethene	270	---	
79-34-5	1,1,2,2-Tetrachloroethane	270	---	
108-88-3	Toluene	270	---	
108-90-7	Chlorobenzene	270	---	
100-41-4	Ethylbenzene	270	---	
100-42-5	Styrene	270	---	
75-69-4	Trichlorofluoromethane	270	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	530	---	
179601-23-1	m,p-Xylene	270	---	
95-47-6	o-Xylene	270	---	
95-50-1	1,2-Dichlorobenzene	270	---	
541-73-1	1,3-Dichlorobenzene	270	---	
106-46-7	1,4-Dichlorobenzene	270	---	
107-02-8	Acrolein	13,000	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-06-0305

MATRIX SPIKE DUP

Lab Sample ID: UG31A

QC Report No: UG31-Windward Environmental, LLC

LIMS ID: 12-1560

Project: ALS CO Dexter

Matrix: Soil

Date Analyzed: 02/02/12 19:42

CAS Number	Analyte	RL	Result Q
74-88-4	Methyl Iodide	270	---
74-96-4	Bromoethane	530	---
107-13-1	Acrylonitrile	1,300	---
563-58-6	1,1-Dichloropropene	270	---
74-95-3	Dibromomethane	270	---
630-20-6	1,1,1,2-Tetrachloroethane	270	---
96-12-8	1,2-Dibromo-3-chloropropane	1,300	---
96-18-4	1,2,3-Trichloropropane	530	---
110-57-6	trans-1,4-Dichloro-2-butene	1,300	---
108-67-8	1,3,5-Trimethylbenzene	270	---
95-63-6	1,2,4-Trimethylbenzene	270	---
87-68-3	Hexachlorobutadiene	1,300	----
106-93-4	Ethylene Dibromide	270	----
74-97-5	Bromochloromethane	270	----
594-20-7	2,2-Dichloropropane	270	----
142-28-9	1,3-Dichloropropane	270	----
98-82-8	Isopropylbenzene	270	----
103-65-1	n-Propylbenzene	270	----
108-86-1	Bromobenzene	270	----
95-49-8	2-Chlorotoluene	270	----
106-43-4	4-Chlorotoluene	270	----
98-06-6	tert-Butylbenzene	270	----
135-98-8	sec-Butylbenzene	270	----
99-87-6	4-Isopropyltoluene	270	----
104-51-8	n-Butylbenzene	270	----
120-82-1	1,2,4-Trichlorobenzene	1,300	----
91-20-3	Naphthalene	1,300	----
87-61-6	1,2,3-Trichlorobenzene	1,300	----

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.1%
d8-Toluene	98.5%
Bromofluorobenzene	97.9%
d4-1,2-Dichlorobenzene	98.1%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020212
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1563

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/02/12 09:58

LCSD: 02/02/12 10:19

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.2	50.0	92.4%	40.4	50.0	80.8%	13.4%
Bromomethane	46.6	50.0	93.2%	39.2	50.0	78.4%	17.2%
Vinyl Chloride	49.5	50.0	99.0%	43.8	50.0	87.6%	12.2%
Chloroethane	38.7 Q	50.0	77.4%	34.2 Q	50.0	68.4%	12.3%
Methylene Chloride	40.2 B	50.0	80.4%	37.6 B	50.0	75.2%	6.7%
Acetone	233	250	93.2%	213	250	85.2%	9.0%
Carbon Disulfide	50.8	50.0	102%	45.5	50.0	91.0%	11.0%
1,1-Dichloroethene	49.4	50.0	98.8%	44.8	50.0	89.6%	9.8%
1,1-Dichloroethane	48.1	50.0	96.2%	41.3	50.0	82.6%	15.2%
trans-1,2-Dichloroethene	46.9	50.0	93.8%	43.1	50.0	86.2%	8.4%
cis-1,2-Dichloroethene	45.3	50.0	90.6%	42.3	50.0	84.6%	6.8%
Chloroform	45.0	50.0	90.0%	42.2	50.0	84.4%	6.4%
1,2-Dichloroethane	47.1	50.0	94.2%	43.5	50.0	87.0%	7.9%
2-Butanone	212	250	84.8%	196	250	78.4%	7.8%
1,1,1-Trichloroethane	48.3	50.0	96.6%	44.5	50.0	89.0%	8.2%
Carbon Tetrachloride	45.9	50.0	91.8%	40.9	50.0	81.8%	11.5%
Vinyl Acetate	45.1	50.0	90.2%	42.5	50.0	85.0%	5.9%
Bromodichloromethane	51.8	50.0	104%	47.9	50.0	95.8%	7.8%
1,2-Dichloropropane	48.9	50.0	97.8%	45.3	50.0	90.6%	7.6%
cis-1,3-Dichloropropene	52.6	50.0	105%	48.5	50.0	97.0%	8.1%
Trichloroethene	52.4	50.0	105%	46.6	50.0	93.2%	11.7%
Dibromochloromethane	46.0	50.0	92.0%	41.9	50.0	83.8%	9.3%
1,1,2-Trichloroethane	48.0	50.0	96.0%	44.4	50.0	88.8%	7.8%
Benzene	50.5	50.0	101%	45.8	50.0	91.6%	9.8%
trans-1,3-Dichloropropene	53.2	50.0	106%	49.1	50.0	98.2%	8.0%
2-Chloroethylvinylether	44.9	50.0	89.8%	39.4	50.0	78.8%	13.0%
Bromoform	45.3	50.0	90.6%	40.1	50.0	80.2%	12.2%
4-Methyl-2-Pentanone (MIBK)	245	250	98.0%	222	250	88.8%	9.9%
2-Hexanone	256	250	102%	227	250	90.8%	12.0%
Tetrachloroethene	56.6	50.0	113%	49.2	50.0	98.4%	14.0%
1,1,2,2-Tetrachloroethane	51.2	50.0	102%	45.9	50.0	91.8%	10.9%
Toluene	48.8	50.0	97.6%	43.6	50.0	87.2%	11.3%
Chlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
Ethylbenzene	53.8	50.0	108%	47.2	50.0	94.4%	13.1%
Styrene	54.8	50.0	110%	48.8	50.0	97.6%	11.6%
Trichlorofluoromethane	50.6	50.0	101%	44.9	50.0	89.8%	11.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	49.7	50.0	99.4%	45.0	50.0	90.0%	9.9%
m,p-Xylene	110	100	110%	95.6	100	95.6%	14.0%
o-Xylene	53.0	50.0	106%	47.3	50.0	94.6%	11.4%
1,2-Dichlorobenzene	50.4	50.0	101%	44.7	50.0	89.4%	12.0%
1,3-Dichlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
1,4-Dichlorobenzene	51.0	50.0	102%	44.9	50.0	89.8%	12.7%
Acrolein	217	250	86.8%	201	250	80.4%	7.7%
Methyl Iodide	59.9	50.0	120%	51.0	50.0	102%	16.1%
Bromoethane	47.0	50.0	94.0%	42.3	50.0	84.6%	10.5%
Acrylonitrile	43.0	50.0	86.0%	39.2	50.0	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1563
Matrix: Soil

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	52.8	50.0	106%	47.1	50.0	94.2%	11.4%
Dibromomethane	48.5	50.0	97.0%	44.4	50.0	88.8%	8.8%
1,1,1,2-Tetrachloroethane	55.8	50.0	112%	50.5	50.0	101%	10.0%
1,2-Dibromo-3-chloropropane	54.6	50.0	109%	47.2	50.0	94.4%	14.5%
1,2,3-Trichloropropane	51.4	50.0	103%	45.5	50.0	91.0%	12.2%
trans-1,4-Dichloro-2-butene	54.5	50.0	109%	47.7	50.0	95.4%	13.3%
1,3,5-Trimethylbenzene	54.0	50.0	108%	47.6	50.0	95.2%	12.6%
1,2,4-Trimethylbenzene	53.3	50.0	107%	47.2	50.0	94.4%	12.1%
Hexachlorobutadiene	53.1	50.0	106%	46.0	50.0	92.0%	14.3%
Ethylene Dibromide	49.4	50.0	98.8%	45.1	50.0	90.2%	9.1%
Bromochloromethane	44.2	50.0	88.4%	41.5	50.0	83.0%	6.3%
2,2-Dichloropropane	48.7	50.0	97.4%	44.9	50.0	89.8%	8.1%
1,3-Dichloropropane	49.9	50.0	99.8%	45.9	50.0	91.8%	8.4%
Isopropylbenzene	54.3	50.0	109%	47.8	50.0	95.6%	12.7%
n-Propylbenzene	55.3	50.0	111%	48.3	50.0	96.6%	13.5%
Bromobenzene	50.0	50.0	100%	45.0	50.0	90.0%	10.5%
2-Chlorotoluene	52.7	50.0	105%	46.2	50.0	92.4%	13.1%
4-Chlorotoluene	52.3	50.0	105%	45.9	50.0	91.8%	13.0%
tert-Butylbenzene	53.5	50.0	107%	47.1	50.0	94.2%	12.7%
sec-Butylbenzene	55.5	50.0	111%	48.6	50.0	97.2%	13.3%
4-Isopropyltoluene	55.8	50.0	112%	48.6	50.0	97.2%	13.8%
n-Butylbenzene	56.8	50.0	114%	48.8	50.0	97.6%	15.2%
1,2,4-Trichlorobenzene	51.7	50.0	103%	45.5	50.0	91.0%	12.8%
Naphthalene	50.4 B	50.0	101%	43.6 B	50.0	87.2%	14.5%
1,2,3-Trichlorobenzene	50.0	50.0	100%	43.8	50.0	87.6%	13.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2Sample ID: LCS-020212
LAB CONTROL SAMPLELab Sample ID: LCS-020212
LIMS ID: 12-1560
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/03/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSOCO DexterInstrument/Analyst LCS: NT9/PAB
LCSD: NT9/PAB
Date Analyzed LCS: 02/02/12 09:58
LCSD: 02/02/12 10:19Date Sampled: NA
Date Received: NASample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2310	2500	92.4%	2020	2500	80.8%	13.4%
Bromomethane	2330	2500	93.2%	1960	2500	78.4%	17.2%
Vinyl Chloride	2480	2500	99.2%	2190	2500	87.6%	12.4%
Chloroethane	1930 Q	2500	77.2%	1710 Q	2500	68.4%	12.1%
Methylene Chloride	2010 B	2500	80.4%	1880 B	2500	75.2%	6.7%
Acetone	11600	12500	92.8%	10700	12500	85.6%	8.1%
Carbon Disulfide	2540	2500	102%	2280	2500	91.2%	10.8%
1,1-Dichloroethene	2470	2500	98.8%	2240	2500	89.6%	9.8%
1,1-Dichloroethane	2400	2500	96.0%	2060	2500	82.4%	15.2%
trans-1,2-Dichloroethene	2350	2500	94.0%	2150	2500	86.0%	8.9%
cis-1,2-Dichloroethene	2270	2500	90.8%	2120	2500	84.8%	6.8%
Chloroform	2250	2500	90.0%	2110	2500	84.4%	6.4%
1,2-Dichloroethane	2350	2500	94.0%	2180	2500	87.2%	7.5%
2-Butanone	10600	12500	84.8%	9790	12500	78.3%	7.9%
1,1,1-Trichloroethane	2410	2500	96.4%	2230	2500	89.2%	7.8%
Carbon Tetrachloride	2290	2500	91.6%	2040	2500	81.6%	11.5%
Vinyl Acetate	2250	2500	90.0%	2120	2500	84.8%	5.9%
Bromodichloromethane	2590	2500	104%	2390	2500	95.6%	8.0%
1,2-Dichloropropane	2440	2500	97.6%	2270	2500	90.8%	7.2%
cis-1,3-Dichloropropene	2630	2500	105%	2420	2500	96.8%	8.3%
Trichloroethene	2620	2500	105%	2330	2500	93.2%	11.7%
Dibromochloromethane	2300	2500	92.0%	2090	2500	83.6%	9.6%
1,1,2-Trichloroethane	2400	2500	96.0%	2220	2500	88.8%	7.8%
Benzene	2520	2500	101%	2290	2500	91.6%	9.6%
trans-1,3-Dichloropropene	2660	2500	106%	2450	2500	98.0%	8.2%
2-Chloroethylvinylether	2240	2500	89.6%	1970	2500	78.8%	12.8%
Bromoform	2270	2500	90.8%	2010	2500	80.4%	12.1%
4-Methyl-2-Pentanone (MIBK)	12300	12500	98.4%	11100	12500	88.8%	10.3%
2-Hexanone	12800	12500	102%	11400	12500	91.2%	11.6%
Tetrachloroethene	2830	2500	113%	2460	2500	98.4%	14.0%
1,1,2,2-Tetrachloroethane	2560	2500	102%	2290	2500	91.6%	11.1%
Toluene	2440	2500	97.6%	2180	2500	87.2%	11.3%
Chlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
Ethylbenzene	2690	2500	108%	2360	2500	94.4%	13.1%
Styrene	2740	2500	110%	2440	2500	97.6%	11.6%
Trichlorofluoromethane	2530	2500	101%	2240	2500	89.6%	12.2%
1,1,2-Trichloro-1,2,2-trifluoroethane	2490	2500	99.6%	2250	2500	90.0%	10.1%
m,p-Xylene	5480	5000	110%	4780	5000	95.6%	13.6%
o-Xylene	2650	2500	106%	2360	2500	94.4%	11.6%
1,2-Dichlorobenzene	2520	2500	101%	2230	2500	89.2%	12.2%
1,3-Dichlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
1,4-Dichlorobenzene	2550	2500	102%	2240	2500	89.6%	12.9%
Acrolein	10800	12500	86.4%	10100	12500	80.8%	6.7%
Methyl Iodide	3000	2500	120%	2550	2500	102%	16.2%
Bromoethane	2350	2500	94.0%	2110	2500	84.4%	10.8%
Acrylonitrile	2150	2500	86.0%	1960	2500	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1560
Matrix: SoilQC Report No: UG31-Windward Environmental, LLC
Project: ALSOCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	2640	2500	106%	2360	2500	94.4%	11.2%
Dibromomethane	2420	2500	96.8%	2220	2500	88.8%	8.6%
1,1,1,2-Tetrachloroethane	2790	2500	112%	2520	2500	101%	10.2%
1,2-Dibromo-3-chloropropane	2730	2500	109%	2360	2500	94.4%	14.5%
1,2,3-Trichloropropene	2570	2500	103%	2280	2500	91.2%	12.0%
trans-1,4-Dichloro-2-butene	2720	2500	109%	2390	2500	95.6%	12.9%
1,3,5-Trimethylbenzene	2700	2500	108%	2380	2500	95.2%	12.6%
1,2,4-Trimethylbenzene	2660	2500	106%	2360	2500	94.4%	12.0%
Hexachlorobutadiene	2650	2500	106%	2300	2500	92.0%	14.1%
Ethylene Dibromide	2470	2500	98.8%	2260	2500	90.4%	8.9%
Bromochloromethane	2210	2500	88.4%	2070	2500	82.8%	6.5%
2,2-Dichloropropane	2430	2500	97.2%	2250	2500	90.0%	7.7%
1,3-Dichloropropane	2500	2500	100%	2300	2500	92.0%	8.3%
Isopropylbenzene	2720	2500	109%	2390	2500	95.6%	12.9%
n-Propylbenzene	2760	2500	110%	2420	2500	96.8%	13.1%
Bromobenzene	2500	2500	100%	2250	2500	90.0%	10.5%
2-Chlorotoluene	2630	2500	105%	2310	2500	92.4%	13.0%
4-Chlorotoluene	2610	2500	104%	2300	2500	92.0%	12.6%
tert-Butylbenzene	2670	2500	107%	2360	2500	94.4%	12.3%
sec-Butylbenzene	2770	2500	111%	2430	2500	97.2%	13.1%
4-Isopropyltoluene	2790	2500	112%	2430	2500	97.2%	13.8%
n-Butylbenzene	2840	2500	114%	2440	2500	97.6%	15.2%
1,2,4-Trichlorobenzene	2580	2500	103%	2270	2500	90.8%	12.8%
Naphthalene	2520 B	2500	101%	2180 B	2500	87.2%	14.5%
1,2,3-Trichlorobenzene	2500	2500	100%	2190	2500	87.6%	13.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2ANALYTICAL
RESOURCES
INCORPORATEDSample ID: MB-020212
METHOD BLANKLab Sample ID: MB-020212
LIMS ID: 12-1563
Matrix: Soil
Data Release Authorized: *R*
Reported: 02/03/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSOCO DexterDate Sampled: NA
Date Received: NAInstrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 10:41Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.0	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

QC Report No: UG31-Windward Environmental, LLC
Project: ALS CO Dexter

LIMS ID: 12-1563

Matrix: Soil

Date Analyzed: 02/02/12 10:41

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212
LIMS ID: 12-1560
Matrix: Soil
Data Release Authorized: *BS*
Reported: 02/03/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 10:41

Date Sampled: NA
Date Received: NA

Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	< 50	U
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	50	J
67-64-1	Acetone	250	< 250	U
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	< 50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethylbenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	o-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1560

Matrix: Soil

Date Analyzed: 02/02/12 10:41

QC Report No: UG31-Windward Environmental, LLC
Project: ALSKO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	< 250	U
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 3

Sample ID: SB-W-06-0200
SAMPLE

Lab Sample ID: UG31F
LIMS ID: 12-1565
Matrix: Water
Data Release Authorized: *VP*
Reported: 02/04/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/02/12 11:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	0.3	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	<i>trans</i> -1,2-Dichloroethene	0.2	0.3	
156-59-2	<i>cis</i> -1,2-Dichloroethene	0.2	8.0	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	<i>cis</i> -1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	1.4	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	<i>trans</i> -1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	1.6	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 3

Sample ID: SB-W-06-0200
SAMPLE

Lab Sample ID: UG31F
LIMS ID: 12-1565
Matrix: Water
Date Analyzed: 02/02/12 11:58

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 3 of 3

**Sample ID: SB-W-06-0200
SAMPLE**

Lab Sample ID: UG31F
LIMS ID: 12-1565
Matrix: Water
Date Analyzed: 02/02/12 11:58

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result Q
-------------------	----------------	-----------	-----------------

Reported in **µg/L (ppb)**

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	97.9%
Bromofluorobenzene	97.1%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 3



Sample ID: SB-W-06-0400

SAMPLE

Lab Sample ID: UG31G

LIMS ID: 12-1566

Matrix: Water

Data Release Authorized: Reported: 02/04/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12

Date Received: 01/30/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/01/12 19:12

Sample Amount: 0.100 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	70	
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	< 500	U
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	< 20	U
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	13	J
156-59-2	cis-1,2-Dichloroethene	20	1,700	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	940	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	20,000	ES
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 3


**ANALYTICAL
RESOURCES
INCORPORATED**
Sample ID: SB-W-06-0400
SAMPLELab Sample ID: UG31G
LIMS ID: 12-1566
Matrix: Water
Date Analyzed: 02/01/12 19:12QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	o-Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 3 of 3

Sample ID: SB-W-06-0400
SAMPLE

Lab Sample ID: UG31G
LIMS ID: 12-1566
Matrix: Water
Date Analyzed: 02/01/12 19:12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result Q
------------	---------	----	----------

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	95.0%
Bromofluorobenzene	96.8%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0400
DILUTION

Lab Sample ID: UG31G
LIMS ID: 12-1566
Matrix: Water
Data Release Authorized: *VT*
Reported: 02/04/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12
Date Received: 01/30/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/02/12 12:25

Sample Amount: 0.0100 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	500	< 500	U
74-83-9	Bromomethane	1,000	< 1,000	U
75-01-4	Vinyl Chloride	200	< 200	U
75-00-3	Chloroethane	200	< 200	U
75-09-2	Methylene Chloride	1,000	< 1,000	U
67-64-1	Acetone	5,000	< 5,000	U
75-15-0	Carbon Disulfide	200	< 200	U
75-35-4	1,1-Dichloroethene	200	< 200	U
75-34-3	1,1-Dichloroethane	200	< 200	U
156-60-5	trans-1,2-Dichloroethene	200	< 200	U
156-59-2	cis-1,2-Dichloroethene	200	1,500	
67-66-3	Chloroform	200	< 200	U
107-06-2	1,2-Dichloroethane	200	< 200	U
78-93-3	2-Butanone	5,000	< 5,000	U
71-55-6	1,1,1-Trichloroethane	200	< 200	U
56-23-5	Carbon Tetrachloride	200	< 200	U
108-05-4	Vinyl Acetate	200	< 200	U
75-27-4	Bromodichloromethane	200	< 200	U
78-87-5	1,2-Dichloropropane	200	< 200	U
10061-01-5	cis-1,3-Dichloropropene	200	< 200	U
79-01-6	Trichloroethene	200	920	
124-48-1	Dibromochloromethane	200	< 200	U
79-00-5	1,1,2-Trichloroethane	200	< 200	U
71-43-2	Benzene	200	< 200	U
10061-02-6	trans-1,3-Dichloropropene	200	< 200	U
110-75-8	2-Chloroethylvinylether	1,000	< 1,000	U
75-25-2	Bromoform	200	< 200	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5,000	< 5,000	U
591-78-6	2-Hexanone	5,000	< 5,000	U
127-18-4	Tetrachloroethene	200	24,000	
79-34-5	1,1,2,2-Tetrachloroethane	200	< 200	U
108-88-3	Toluene	200	< 200	U
108-90-7	Chlorobenzene	200	< 200	U
100-41-4	Ethylbenzene	200	< 200	U
100-42-5	Styrene	200	< 200	U
75-69-4	Trichlorofluoromethane	200	< 200	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0400
DILUTION

Lab Sample ID: UG31G
LIMS ID: 12-1566
Matrix: Water
Date Analyzed: 02/02/12 12:25

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	200	< 200	U
179601-23-1	m,p-Xylene	400	< 400	U
95-47-6	o-Xylene	200	< 200	U
95-50-1	1,2-Dichlorobenzene	200	< 200	U
541-73-1	1,3-Dichlorobenzene	200	< 200	U
106-46-7	1,4-Dichlorobenzene	200	< 200	U
107-02-8	Acrolein	5,000	< 5,000	U
74-88-4	Methyl Iodide	1,000	< 1,000	U
74-96-4	Bromoethane	200	< 200	U
107-13-1	Acrylonitrile	1,000	< 1,000	U
563-58-6	1,1-Dichloropropene	200	< 200	U
74-95-3	Dibromomethane	200	< 200	U
630-20-6	1,1,1,2-Tetrachloroethane	200	< 200	U
96-12-8	1,2-Dibromo-3-chloropropane	500	< 500	U
96-18-4	1,2,3-Trichloropropene	500	< 500	U
110-57-6	trans-1,4-Dichloro-2-butene	1,000	< 1,000	U
108-67-8	1,3,5-Trimethylbenzene	200	< 200	U
95-63-6	1,2,4-Trimethylbenzene	200	< 200	U
87-68-3	Hexachlorobutadiene	500	< 500	U
106-93-4	Ethylene Dibromide	200	< 200	U
74-97-5	Bromochloromethane	200	< 200	U
594-20-7	2,2-Dichloropropane	200	< 200	U
142-28-9	1,3-Dichloropropane	200	< 200	U
98-82-8	Isopropylbenzene	200	< 200	U
103-65-1	n-Propylbenzene	200	< 200	U
108-86-1	Bromobenzene	200	< 200	U
95-49-8	2-Chlorotoluene	200	< 200	U
106-43-4	4-Chlorotoluene	200	< 200	U
98-06-6	tert-Butylbenzene	200	< 200	U
135-98-8	sec-Butylbenzene	200	< 200	U
99-87-6	4-Isopropyltoluene	200	< 200	U
104-51-8	n-Butylbenzene	200	< 200	U
120-82-1	1,2,4-Trichlorobenzene	500	< 500	U
91-20-3	Naphthalene	500	< 500	U
87-61-6	1,2,3-Trichlorobenzene	500	< 500	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	94.4%
Bromofluorobenzene	95.1%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 3



Sample ID: SB-W-06-0600

SAMPLE

Lab Sample ID: UG31H

LIMS ID: 12-1567

Matrix: Water

Data Release Authorized: *WD*

Reported: 02/04/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/01/12 19:38

QC Report No: UG31-Windward Environmental, LLC
Project: ALSOO Dexter

Date Sampled: 01/30/12

Date Received: 01/30/12

Sample Amount: 0.100 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	85	
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	< 500	U
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	16	J
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	1,800	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	1,300	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	6,700	E
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 3ANALYTICAL
RESOURCES
INCORPORATEDSample ID: SB-W-06-0600
SAMPLE

Lab Sample ID: UG31H

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1567

Matrix: Water

Date Analyzed: 02/01/12 19:38

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	o-Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 3 of 3

Sample ID: SB-W-06-0600
SAMPLE

Lab Sample ID: UG31H
LIMS ID: 12-1567
Matrix: Water
Date Analyzed: 02/01/12 19:38

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result Q
------------	---------	----	----------

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	96.1%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

 Volatiles by Purge & Trap GC/MS-Method SW8260C
 Page 1 of 2

 Sample ID: SB-W-06-0600
 DILUTION

 Lab Sample ID: UG31H
 LIMS ID: 12-1567
 Matrix: Water
 Data Release Authorized: *VB*
 Reported: 02/04/12

 QC Report No: UG31-Windward Environmental, LLC
 Project: ALSOO Dexter

 Date Sampled: 01/30/12
 Date Received: 01/30/12

 Instrument/Analyst: NT2/PKC
 Date Analyzed: 02/02/12 12:52

 Sample Amount: 0.0500 mL
 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	< 100	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	40	74	
75-00-3	Chloroethane	40	< 40	U
75-09-2	Methylene Chloride	200	< 200	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	40	< 40	U
75-35-4	1,1-Dichloroethene	40	< 40	U
75-34-3	1,1-Dichloroethane	40	< 40	U
156-60-5	trans-1,2-Dichloroethene	40	< 40	U
156-59-2	cis-1,2-Dichloroethene	40	1,600	
67-66-3	Chloroform	40	< 40	U
107-06-2	1,2-Dichloroethane	40	< 40	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	40	< 40	U
56-23-5	Carbon Tetrachloride	40	< 40	U
108-05-4	Vinyl Acetate	40	< 40	U
75-27-4	Bromodichloromethane	40	< 40	U
78-87-5	1,2-Dichloropropane	40	< 40	U
10061-01-5	cis-1,3-Dichloropropene	40	< 40	U
79-01-6	Trichloroethene	40	1,200	
124-48-1	Dibromochloromethane	40	< 40	U
79-00-5	1,1,2-Trichloroethane	40	< 40	U
71-43-2	Benzene	40	< 40	U
10061-02-6	trans-1,3-Dichloropropene	40	< 40	U
110-75-8	2-Chloroethylvinylether	200	< 200	U
75-25-2	Bromoform	40	< 40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	40	7,200	
79-34-5	1,1,2,2-Tetrachloroethane	40	< 40	U
108-88-3	Toluene	40	< 40	U
108-90-7	Chlorobenzene	40	< 40	U
100-41-4	Ethylbenzene	40	< 40	U
100-42-5	Styrene	40	< 40	U
75-69-4	Trichlorofluoromethane	40	< 40	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0600
DILUTION

Lab Sample ID: UC31H
LIMS ID: 12-1567
Matrix: Water
Date Analyzed: 02/02/12 12:52

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	40	< 40	U
179601-23-1	m,p-Xylene	80	< 80	U
95-47-6	c-Xylene	40	< 40	U
95-50-1	1,2-Dichlorobenzene	40	< 40	U
541-73-1	1,3-Dichlorobenzene	40	< 40	U
106-46-7	1,4-Dichlorobenzene	40	< 40	U
107-02-8	Acrolein	1,000	< 1,000	U
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	40	< 40	U
107-13-1	Acrylonitrile	200	< 200	U
563-58-6	1,1-Dichloropropene	40	< 40	U
74-95-3	Dibromomethane	40	< 40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	< 40	U
96-12-8	1,2-Dibromo-3-chloropropane	100	< 100	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	200	< 200	U
108-67-8	1,3,5-Trimethylbenzene	40	< 40	U
95-63-6	1,2,4-Trimethylbenzene	40	< 40	U
87-68-3	Hexachlorobutadiene	100	< 100	U
106-93-4	Ethylene Dibromide	40	< 40	U
74-97-5	Bromochloromethane	40	< 40	U
594-20-7	2,2-Dichloropropane	40	< 40	U
142-28-9	1,3-Dichloropropane	40	< 40	U
98-82-8	Isopropylbenzene	40	< 40	U
103-65-1	n-Propylbenzene	40	< 40	U
108-86-1	Bromobenzene	40	< 40	U
95-49-8	2-Chlorotoluene	40	< 40	U
106-43-4	4-Chlorotoluene	40	< 40	U
98-06-6	tert-Butylbenzene	40	< 40	U
135-98-8	sec-Butylbenzene	40	< 40	U
99-87-6	4-Isopropyltoluene	40	< 40	U
104-51-8	n-Butylbenzene	40	< 40	U
120-82-1	1,2,4-Trichlorobenzene	100	< 100	U
91-20-3	Naphthalene	100	< 100	U
87-61-6	1,2,3-Trichlorobenzene	100	< 100	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	95.8%
Bromofluorobenzene	97.4%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 3ANALYTICAL
RESOURCES
INCORPORATEDSample ID: Trip Blank
SAMPLELab Sample ID: UG31I
LIMS ID: 12-1568
Matrix: Water
Data Release Authorized: *VP*
Reported: 02/04/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO DexterDate Sampled: 01/30/12
Date Received: 01/30/12Instrument/Analyst: NT2/PKC
Date Analyzed: 02/01/12 20:05Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 3
**ANALYTICAL
RESOURCES
INCORPORATED**

Sample ID: Trip Blank
SAMPLELab Sample ID: UG31I
LIMS ID: 12-1568
Matrix: Water
Date Analyzed: 02/01/12 20:05QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 3 of 3

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG31I

LIMS ID: 12-1568

Matrix: Water

Date Analyzed: 02/01/12 20:05

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result Q
------------	---------	----	----------

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	96.6%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

 QC Report No: UG31-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020212	Method Blank	10	106%	95.9%	95.6%	100%	0
LCS-020212	Lab Control	10	106%	99.5%	98.7%	100%	0
LCSD-020212	Lab Control Dup	10	104%	98.6%	96.7%	100%	0
UG31F	SB-W-06-0200	10	106%	97.9%	97.1%	100%	0
MB-020112	Method Blank	10	102%	96.8%	100%	100%	0
LCS-020112	Lab Control	10	102%	99.2%	99.5%	100%	0
LCSD-020112	Lab Control Dup	10	105%	98.8%	98.1%	100%	0
UG31G	SB-W-06-0400	10	108%	95.0%	96.8%	100%	0
UG31GDL	SB-W-06-0400	10	107%	94.4%	95.1%	100%	0
UG31H	SB-W-06-0600	10	108%	96.1%	97.5%	100%	0
UG31HDL	SB-W-06-0600	10	102%	95.8%	97.4%	100%	0
UG31I	Trip Blank	10	106%	96.6%	103%	100%	0

LCS/MB LIMITS **QC LIMITS**
SW8260C

(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

 Prep Method: SW5030B
 Log Number Range: 12-1565 to 12-1568

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020112

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112

LIMS ID: 12-1566

Matrix: Water

Data Release Authorized: **WD**

Reported: 02/04/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT2/PKC

LCSD: NT2/PKC

Date Analyzed LCS: 02/01/12 09:44

LCSD: 02/01/12 10:11

Sample Amount LCS: 10.0 mL

LCSD: 10.0 mL

Purge Volume LCS: 10.0 mL

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	10.8	10.0	108%	10.4	10.0	104%	3.8%
Bromomethane	11.2	10.0	112%	10.8	10.0	108%	3.6%
Vinyl Chloride	10.6	10.0	106%	10.4	10.0	104%	1.9%
Chloroethane	10.9	10.0	109%	10.6	10.0	106%	2.8%
Methylene Chloride	11.6	10.0	116%	11.2	10.0	112%	3.5%
Acetone	50.3	50.0	101%	52.9	50.0	106%	5.0%
Carbon Disulfide	11.7	10.0	117%	11.4	10.0	114%	2.6%
1,1-Dichloroethene	11.1	10.0	111%	10.8	10.0	108%	2.7%
1,1-Dichloroethane	11.5	10.0	115%	11.4	10.0	114%	0.9%
trans-1,2-Dichloroethene	11.6	10.0	116%	11.3	10.0	113%	2.6%
cis-1,2-Dichloroethene	11.5	10.0	115%	11.5	10.0	115%	0.0%
Chloroform	11.7	10.0	117%	11.8	10.0	118%	0.9%
1,2-Dichloroethane	11.0	10.0	110%	11.4	10.0	114%	3.6%
2-Butanone	49.8	50.0	99.6%	53.9	50.0	108%	7.9%
1,1,1-Trichloroethane	11.8	10.0	118%	11.6	10.0	116%	1.7%
Carbon Tetrachloride	14.0 Q	10.0	140%	13.8 Q	10.0	138%	1.4%
Vinyl Acetate	10.3	10.0	103%	10.8	10.0	108%	4.7%
Bromodichloromethane	12.8 Q	10.0	128%	13.0 Q	10.0	130%	1.6%
1,2-Dichloropropane	10.5	10.0	105%	10.7	10.0	107%	1.9%
cis-1,3-Dichloropropene	10.7	10.0	107%	10.8	10.0	108%	0.9%
Trichloroethene	11.2	10.0	112%	11.4	10.0	114%	1.8%
Dibromochloromethane	10.2	10.0	102%	10.5	10.0	105%	2.9%
1,1,2-Trichloroethane	10.4	10.0	104%	10.8	10.0	108%	3.8%
Benzene	11.1	10.0	111%	11.3	10.0	113%	1.8%
trans-1,3-Dichloropropene	10.6	10.0	106%	11.1	10.0	111%	4.6%
2-Chloroethylvinylether	8.6	10.0	86.0%	9.1	10.0	91.0%	5.6%
Bromoform	11.6	10.0	116%	12.2	10.0	122%	5.0%
4-Methyl-2-Pentanone (MIBK)	52.7	50.0	105%	55.6	50.0	111%	5.4%
2-Hexanone	47.1	50.0	94.2%	49.4	50.0	98.8%	4.8%
Tetrachloroethene	11.1	10.0	111%	11.0	10.0	110%	0.9%
1,1,2,2-Tetrachloroethane	10.2	10.0	102%	10.5	10.0	105%	2.9%
Toluene	10.5	10.0	105%	10.6	10.0	106%	0.9%
Chlorobenzene	10.3	10.0	103%	10.4	10.0	104%	1.0%
Ethylbenzene	10.6	10.0	106%	10.5	10.0	105%	0.9%
Styrene	10.6	10.0	106%	10.8	10.0	108%	1.9%
Trichlorofluoromethane	12.2	10.0	122%	11.8	10.0	118%	3.3%
1,1,2-Trichloro-1,2,2-trifluoroethane	11.3	10.0	113%	11.4	10.0	114%	0.9%
m,p-Xylene	21.5	20.0	108%	21.6	20.0	108%	0.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020112
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020112
LIMS ID: 12-1566
Matrix: Water

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
o-Xylene	11.0	10.0	110%	10.8	10.0	108%
1,2-Dichlorobenzene	10.2	10.0	102%	10.4	10.0	104%
1,3-Dichlorobenzene	10.2	10.0	102%	10.4	10.0	104%
1,4-Dichlorobenzene	10.0	10.0	100%	10.2	10.0	102%
Acrolein	47.8	50.0	95.6%	47.1	50.0	94.2%
Methyl Iodide	11.2	10.0	112%	11.0	10.0	110%
Bromoethane	11.2	10.0	112%	11.0	10.0	110%
Acrylonitrile	10.9	10.0	109%	11.4	10.0	114%
1,1-Dichloropropene	11.3	10.0	113%	11.5	10.0	115%
Dibromomethane	11.2	10.0	112%	11.6	10.0	116%
1,1,1,2-Tetrachloroethane	13.0 Q	10.0	130%	12.9 Q	10.0	129%
1,2-Dibromo-3-chloropropane	12.1	10.0	121%	12.5	10.0	125%
1,2,3-Trichloropropane	10.0	10.0	100%	10.2	10.0	102%
trans-1,4-Dichloro-2-butene	9.4	10.0	94.0%	9.8	10.0	98.0%
1,3,5-Trimethylbenzene	10.5	10.0	105%	10.6	10.0	106%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.4	10.0	104%
Hexachlorobutadiene	10.9	10.0	109%	10.9	10.0	109%
Ethylene Dibromide	10.5	10.0	105%	11.0	10.0	110%
Bromochloromethane	11.7	10.0	117%	11.5	10.0	115%
2,2-Dichloropropane	11.2	10.0	112%	10.6	10.0	106%
1,3-Dichloropropane	9.8	10.0	98.0%	10.0	10.0	100%
Isopropylbenzene	10.4	10.0	104%	10.5	10.0	105%
n-Propylbenzene	10.0	10.0	100%	10.1	10.0	101%
Bromobenzene	9.7	10.0	97.0%	10.0	10.0	100%
2-Chlorotoluene	10.0	10.0	100%	10.0	10.0	100%
4-Chlorotoluene	9.7	10.0	97.0%	9.8	10.0	98.0%
tert-Butylbenzene	10.4	10.0	104%	10.6	10.0	106%
sec-Butylbenzene	10.6	10.0	106%	10.7	10.0	107%
4-Isopropyltoluene	10.5	10.0	105%	10.7	10.0	107%
n-Butylbenzene	10.6	10.0	106%	10.6	10.0	106%
1,2,4-Trichlorobenzene	11.0	10.0	110%	11.1	10.0	111%
Naphthalene	11.0	10.0	110%	11.1	10.0	111%
1,2,3-Trichlorobenzene	11.5	10.0	115%	11.6	10.0	116%

Reported in $\mu\text{g/L}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	105%
d8-Toluene	99.2%	98.8%
Bromofluorobenzene	99.5%	98.1%
d4-1,2-Dichlorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1565

Matrix: Water

Data Release Authorized: **VB**
Reported: 02/04/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSOO DexterDate Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT2/PKC

Sample Amount LCS: 10.0 mL

LCSD: NT2/PKC

LCSD: 10.0 mL

Date Analyzed LCS: 02/02/12 10:32

Purge Volume LCS: 10.0 mL

LCSD: 02/02/12 10:59

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	10.8	10.0	108%	10.2	10.0	102%	5.7%
Bromomethane	11.0	10.0	110%	10.4	10.0	104%	5.6%
Vinyl Chloride	10.9	10.0	109%	10.1	10.0	101%	7.6%
Chloroethane	11.3	10.0	113%	10.5	10.0	105%	7.3%
Methylene Chloride	11.5	10.0	115%	10.7	10.0	107%	7.2%
Acetone	52.8	50.0	106%	52.1	50.0	104%	1.3%
Carbon Disulfide	11.8	10.0	118%	11.1	10.0	111%	6.1%
1,1-Dichloroethene	11.1	10.0	111%	10.5	10.0	105%	5.6%
1,1-Dichloroethane	11.2	10.0	112%	10.8	10.0	108%	3.6%
trans-1,2-Dichloroethene	11.4	10.0	114%	10.7	10.0	107%	6.3%
cis-1,2-Dichloroethene	11.2	10.0	112%	10.9	10.0	109%	2.7%
Chloroform	11.5	10.0	115%	11.2	10.0	112%	2.6%
1,2-Dichloroethane	11.0	10.0	110%	11.0	10.0	110%	0.0%
2-Butanone	48.2	50.0	96.4%	50.1	50.0	100%	3.9%
1,1,1-Trichloroethane	11.7	10.0	117%	11.2	10.0	112%	4.4%
Carbon Tetrachloride	14.2 Q	10.0	142%	13.5 Q	10.0	135%	5.1%
Vinyl Acetate	9.4	10.0	94.0%	9.6	10.0	96.0%	2.1%
Bromodichloromethane	12.5 Q	10.0	125%	12.6 Q	10.0	126%	0.8%
1,2-Dichloropropane	10.3	10.0	103%	10.2	10.0	102%	1.0%
cis-1,3-Dichloropropene	10.2	10.0	102%	10.3	10.0	103%	1.0%
Trichloroethene	11.0	10.0	110%	10.8	10.0	108%	1.8%
Dibromochloromethane	10.4	10.0	104%	10.1	10.0	101%	2.9%
1,1,2-Trichloroethane	10.1	10.0	101%	10.1	10.0	101%	0.0%
Benzene	11.1	10.0	111%	10.9	10.0	109%	1.8%
trans-1,3-Dichloropropene	10.2	10.0	102%	10.2	10.0	102%	0.0%
2-Chloroethylvinylether	8.3	10.0	83.0%	8.2	10.0	82.0%	1.2%
Bromoform	12.1 Q	10.0	121%	12.1 Q	10.0	121%	0.0%
4-Methyl-2-Pentanone (MIBK)	53.3	50.0	107%	52.8	50.0	106%	0.9%
2-Hexanone	47.6	50.0	95.2%	48.3	50.0	96.6%	1.5%
Tetrachloroethene	11.0	10.0	110%	10.7	10.0	107%	2.8%
1,1,2,2-Tetrachloroethane	10.8	10.0	108%	10.8	10.0	108%	0.0%
Toluene	10.2	10.0	102%	10.2	10.0	102%	0.0%
Chlorobenzene	10.5	10.0	105%	10.2	10.0	102%	2.9%
Ethylbenzene	10.7	10.0	107%	10.4	10.0	104%	2.8%
Styrene	10.9	10.0	109%	10.8	10.0	108%	0.9%
Trichlorofluoromethane	12.0	10.0	120%	11.6	10.0	116%	3.4%
1,1,2-Trichloro-1,2,2-trifluoroethane	11.7	10.0	117%	10.8	10.0	108%	8.0%
m,p-Xylene	22.0	20.0	110%	21.6	20.0	108%	1.8%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

ANALYTICAL
RESOURCES
INCORPORATED

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1565
Matrix: WaterQC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
o-Xylene	11.4	10.0	114%	10.9	10.0	109%	4.5%
1,2-Dichlorobenzene	10.8	10.0	108%	10.6	10.0	106%	1.9%
1,3-Dichlorobenzene	10.6	10.0	106%	10.5	10.0	105%	0.9%
1,4-Dichlorobenzene	10.4	10.0	104%	10.4	10.0	104%	0.0%
Acrolein	45.4	50.0	90.8%	45.5	50.0	91.0%	0.2%
Methyl Iodide	11.2	10.0	112%	10.6	10.0	106%	5.5%
Bromoethane	11.2	10.0	112%	10.6	10.0	106%	5.5%
Acrylonitrile	11.0	10.0	110%	10.8	10.0	108%	1.8%
1,1-Dichloropropene	10.9	10.0	109%	11.0	10.0	110%	0.9%
Dibromomethane	11.2	10.0	112%	11.0	10.0	110%	1.8%
1,1,1,2-Tetrachloroethane	13.7	Q	137%	13.1	Q	131%	4.5%
1,2-Dibromo-3-chloropropane	12.7	10.0	127%	13.2	10.0	132%	3.9%
1,2,3-Trichloropropane	10.6	10.0	106%	10.6	10.0	106%	0.0%
trans-1,4-Dichloro-2-butene	10.2	10.0	102%	10.6	10.0	106%	3.8%
1,3,5-Trimethylbenzene	11.1	10.0	111%	11.0	10.0	110%	0.9%
1,2,4-Trimethylbenzene	11.0	10.0	110%	10.9	10.0	109%	0.9%
Hexachlorobutadiene	11.9	10.0	119%	11.2	10.0	112%	6.1%
Ethylene Dibromide	10.0	10.0	100%	10.2	10.0	102%	2.0%
Bromochloromethane	11.4	10.0	114%	11.0	10.0	110%	3.6%
2,2-Dichloropropane	10.8	10.0	108%	10.2	10.0	102%	5.7%
1,3-Dichloropropane	9.7	10.0	97.0%	9.9	10.0	99.0%	2.0%
Isopropylbenzene	10.9	10.0	109%	10.8	10.0	108%	0.9%
n-Propylbenzene	10.4	10.0	104%	10.4	10.0	104%	0.0%
Bromobenzene	10.1	10.0	101%	10.1	10.0	101%	0.0%
2-Chlorotoluene	10.4	10.0	104%	10.4	10.0	104%	0.0%
4-Chlorotoluene	10.1	10.0	101%	10.2	10.0	102%	1.0%
tert-Butylbenzene	10.9	10.0	109%	10.9	10.0	109%	0.0%
sec-Butylbenzene	11.2	10.0	112%	11.1	10.0	111%	0.9%
4-Isopropyltoluene	11.2	10.0	112%	11.0	10.0	110%	1.8%
n-Butylbenzene	11.3	10.0	113%	10.9	10.0	109%	3.6%
1,2,4-Trichlorobenzene	11.8	10.0	118%	11.4	10.0	114%	3.4%
Naphthalene	11.4	10.0	114%	11.2	10.0	112%	1.8%
1,2,3-Trichlorobenzene	11.9	10.0	119%	11.6	10.0	116%	2.6%

Reported in ug/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	106%	104%
d8-Toluene	99.5%	98.6%
Bromofluorobenzene	98.7%	96.7%
d4-1,2-Dichlorobenzene	100%	100%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2
**ANALYTICAL
RESOURCES
INCORPORATED**

Sample ID: MB-020112
METHOD BLANKLab Sample ID: MB-020112
LIMS ID: 12-1566
Matrix: Water
Data Release Authorized: *VD*
Reported: 02/04/12QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO DexterDate Sampled: NA
Date Received: NAInstrument/Analyst: NT2/PKC
Date Analyzed: 02/01/12 10:38Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-08-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020112
METHOD BLANK

Lab Sample ID: MB-020112

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

LIMS ID: 12-1566

Matrix: Water

Date Analyzed: 02/01/12 10:38

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromoethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	96.8%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1565

Matrix: Water

Data Release Authorized: *VB*

Reported: 02/04/12

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/02/12 11:26

Sample Amount: 10.0 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212
LIMS ID: 12-1565
Matrix: Water
Date Analyzed: 02/02/12 11:26

QC Report No: UG31-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	95.9%
Bromofluorobenzene	95.6%
d4-1,2-Dichlorobenzene	100%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 7, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: ALSCO Dexter
ARI Job No.: UG49

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted three soil samples and a trip blank on January 31, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 3.2°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The soil continuing calibration (CCAL) fell outside the 20% control limit low for Chloroethane. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Methylene Chloride and Naphthalene were present in the soil method blank MB-020212 at levels that were greater than ½ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

The soil medium level LCSD percent recoveries of Chloroethane and Methylene Chloride fell outside the control limits low for LCS-020212. No corrective action was taken.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager

-For-

Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UG49



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward
COC No(s): 2882 *JM*

Assigned ARI Job No: UG49

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.2

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: JM Date: 1/31/12 Time: 1220 Temp Gun ID#: 90877952

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) YES NO

Were all VOC vials free of air bubbles? YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: 1/23/12

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 1/31/12 Time: 1228

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip Blank = Sm in lot 1

By: JM Date: 1/31/12

Small Air Bubbles ~2mm * * *	Peabubbles 2-4 mm * * * * *	LARGE Air Bubbles > 4 mm * * * * *	Small → "sm" Peabubbles → "pb" Large → "lg" Headspace → "hs"

Sample ID Cross Reference Report

ARI Job No: UG49
Client: Windward Environmental, LLC
Project Event: N/A
Project Name: ALSCO Dexter

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SB-W-06-0590	UG49A	12-1663	Soil	01/30/12 16:50	01/31/12 12:20
2. SB-W-06-0715	UG49B	12-1664	Soil	01/30/12 17:30	01/31/12 12:20
3. SB-W-06-0790	UG49C	12-1665	Soil	01/31/12 08:30	01/31/12 12:20
4. Trip Blank	UG49D	12-1666	Water	01/30/12	01/31/12 12:20



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0590
SAMPLE

Lab Sample ID: UG49A
LIMS ID: 12-1663
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO Dexter

Date Sampled: 01/30/12
Date Received: 01/31/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 13:32

Sample Amount: 117 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: 5.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	43	< 43	U
74-83-9	Bromomethane	43	< 43	U
75-01-4	Vinyl Chloride	43	< 43	U
75-00-3	Chloroethane	43	< 43	U
75-09-2	Methylene Chloride	86	< 86	U
67-64-1	Acetone	210	< 210	U
75-15-0	Carbon Disulfide	43	< 43	U
75-35-4	1,1-Dichloroethene	43	< 43	U
75-34-3	1,1-Dichloroethane	43	< 43	U
156-60-5	trans-1,2-Dichloroethene	43	< 43	U
156-59-2	cis-1,2-Dichloroethene	43	< 43	U
67-66-3	Chloroform	43	< 43	U
107-06-2	1,2-Dichloroethane	43	< 43	U
78-93-3	2-Butanone	210	< 210	U
71-55-6	1,1,1-Trichloroethane	43	< 43	U
56-23-5	Carbon Tetrachloride	43	< 43	U
108-05-4	Vinyl Acetate	210	< 210	U
75-27-4	Bromodichloromethane	43	< 43	U
78-87-5	1,2-Dichloropropane	43	< 43	U
10061-01-5	cis-1,3-Dichloropropene	43	< 43	U
79-01-6	Trichloroethene	43	37	J
124-48-1	Dibromochloromethane	43	< 43	U
79-00-5	1,1,2-Trichloroethane	43	< 43	U
71-43-2	Benzene	43	< 43	U
10061-02-6	trans-1,3-Dichloropropene	43	< 43	U
110-75-8	2-Chloroethylvinylether	210	< 210	U
75-25-2	Bromoform	43	< 43	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	210	< 210	U
591-78-6	2-Hexanone	210	< 210	U
127-18-4	Tetrachloroethene	43	530	
79-34-5	1,1,2,2-Tetrachloroethane	43	< 43	U
108-88-3	Toluene	43	< 43	U
108-90-7	Chlorobenzene	43	< 43	U
100-41-4	Ethylbenzene	43	< 43	U
100-42-5	Styrene	43	< 43	U
75-69-4	Trichlorofluoromethane	43	< 43	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	86	< 86	U
179601-23-1	m,p-Xylene	43	< 43	U
95-47-6	o-Xylene	43	< 43	U
95-50-1	1,2-Dichlorobenzene	43	< 43	U
541-73-1	1,3-Dichlorobenzene	43	< 43	U
106-46-7	1,4-Dichlorobenzene	43	< 43	U
107-02-8	Acrolein	2,100	< 2,100	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0590
SAMPLE

Lab Sample ID: UG49A
LIMS ID: 12-1663
Matrix: Soil
Date Analyzed: 02/02/12 13:32

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	43	< 43	U
74-96-4	Bromoethane	86	< 86	U
107-13-1	Acrylonitrile	210	< 210	U
563-58-6	1,1-Dichloropropene	43	< 43	U
74-95-3	Dibromomethane	43	< 43	U
630-20-6	1,1,1,2-Tetrachloroethane	43	< 43	U
96-12-8	1,2-Dibromo-3-chloropropane	210	< 210	U
96-18-4	1,2,3-Trichloropropane	86	< 86	U
110-57-6	trans-1,4-Dichloro-2-butene	210	< 210	U
108-67-8	1,3,5-Trimethylbenzene	43	< 43	U
95-63-6	1,2,4-Trimethylbenzene	43	< 43	U
87-68-3	Hexachlorobutadiene	210	< 210	U
106-93-4	Ethylene Dibromide	43	< 43	U
74-97-5	Bromochloromethane	43	< 43	U
594-20-7	2,2-Dichloropropane	43	< 43	U
142-28-9	1,3-Dichloropropane	43	< 43	U
98-82-8	Isopropylbenzene	43	< 43	U
103-65-1	n-Propylbenzene	43	< 43	U
108-86-1	Bromobenzene	43	< 43	U
95-49-8	2-Chlorotoluene	43	< 43	U
106-43-4	4-Chlorotoluene	43	< 43	U
98-06-6	tert-Butylbenzene	43	< 43	U
135-98-8	sec-Butylbenzene	43	< 43	U
99-87-6	4-Isopropyltoluene	43	< 43	U
104-51-8	n-Butylbenzene	43	< 43	U
120-82-1	1,2,4-Trichlorobenzene	210	< 210	U
91-20-3	Naphthalene	210	< 210	U
87-61-6	1,2,3-Trichlorobenzene	210	< 210	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.3%
d8-Toluene	97.8%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	102%

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0715
SAMPLE

Lab Sample ID: UG49B
LIMS ID: 12-1664
Matrix: Soil
Data Release Authorized: *B*
Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/30/12
Date Received: 01/31/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 17:56

Sample Amount: 5.96 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.8	< 0.8	U
74-83-9	Bromomethane	0.8	< 0.8	U
75-01-4	Vinyl Chloride	0.8	< 0.8	U
75-00-3	Chloroethane	0.8	< 0.8	U
75-09-2	Methylene Chloride	1.7	< 1.7	U
67-64-1	Acetone	4.2	14	
75-15-0	Carbon Disulfide	0.8	6.2	
75-35-4	1,1-Dichloroethene	0.8	< 0.8	U
75-34-3	1,1-Dichloroethane	0.8	< 0.8	U
156-60-5	trans-1,2-Dichloroethene	0.8	< 0.8	U
156-59-2	cis-1,2-Dichloroethene	0.8	< 0.8	U
67-66-3	Chloroform	0.8	< 0.8	U
107-06-2	1,2-Dichloroethane	0.8	< 0.8	U
78-93-3	2-Butanone	4.2	2.3	J
71-55-6	1,1,1-Trichloroethane	0.8	< 0.8	U
56-23-5	Carbon Tetrachloride	0.8	< 0.8	U
108-05-4	Vinyl Acetate	4.2	< 4.2	U
75-27-4	Bromodichloromethane	0.8	< 0.8	U
78-87-5	1,2-Dichloropropane	0.8	< 0.8	U
10061-01-5	cis-1,3-Dichloropropene	0.8	< 0.8	U
79-01-6	Trichloroethene	0.8	< 0.8	U
124-48-1	Dibromochloromethane	0.8	< 0.8	U
79-00-5	1,1,2-Trichloroethane	0.8	< 0.8	U
71-43-2	Benzene	0.8	< 0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	< 0.8	U
110-75-8	2-Chloroethylvinylether	4.2	< 4.2	U
75-25-2	Bromoform	0.8	< 0.8	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.2	< 4.2	U
591-78-6	2-Hexanone	4.2	< 4.2	U
127-18-4	Tetrachloroethene	0.8	0.9	
79-34-5	1,1,2,2-Tetrachloroethane	0.8	< 0.8	U
108-88-3	Toluene	0.8	< 0.8	U
108-90-7	Chlorobenzene	0.8	< 0.8	U
100-41-4	Ethylbenzene	0.8	< 0.8	U
100-42-5	Styrene	0.8	< 0.8	U
75-69-4	Trichlorofluoromethane	0.8	< 0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.8	< 0.8	U
95-47-6	o-Xylene	0.8	< 0.8	U
95-50-1	1,2-Dichlorobenzene	0.8	< 0.8	U
541-73-1	1,3-Dichlorobenzene	0.8	< 0.8	U
106-46-7	1,4-Dichlorobenzene	0.8	< 0.8	U
107-02-8	Acrolein	42	< 42	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: SB-W-06-0715

SAMPLE

Lab Sample ID: UG49B

QC Report No: UG49-Windward Environmental, LLC

LIMS ID: 12-1664

Project: ALSCO Dexter

Matrix: Soil

Date Analyzed: 02/02/12 17:56

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.8	< 0.8	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.2	< 4.2	U
563-58-6	1,1-Dichloropropene	0.8	< 0.8	U
74-95-3	Dibromomethane	0.8	< 0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	0.8	< 0.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.2	< 4.2	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.2	< 4.2	U
108-67-8	1,3,5-Trimethylbenzene	0.8	< 0.8	U
95-63-6	1,2,4-Trimethylbenzene	0.8	< 0.8	U
87-68-3	Hexachlorobutadiene	4.2	< 4.2	U
106-93-4	Ethylene Dibromide	0.8	< 0.8	U
74-97-5	Bromochloromethane	0.8	< 0.8	U
594-20-7	2,2-Dichloropropane	0.8	< 0.8	U
142-28-9	1,3-Dichloropropane	0.8	< 0.8	U
98-82-8	Isopropylbenzene	0.8	< 0.8	U
103-65-1	n-Propylbenzene	0.8	< 0.8	U
108-86-1	Bromobenzene	0.8	< 0.8	U
95-49-8	2-Chlorotoluene	0.8	< 0.8	U
106-43-4	4-Chlorotoluene	0.8	< 0.8	U
98-06-6	tert-Butylbenzene	0.8	< 0.8	U
135-98-8	sec-Butylbenzene	0.8	< 0.8	U
99-87-6	4-Isopropyltoluene	0.8	< 0.8	U
104-51-8	n-Butylbenzene	0.8	< 0.8	U
120-82-1	1,2,4-Trichlorobenzene	4.2	< 4.2	U
91-20-3	Naphthalene	4.2	< 4.2	U
87-61-6	1,2,3-Trichlorobenzene	4.2	< 4.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.6%
d8-Toluene	97.6%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: SB-W-06-0790
SAMPLE

Lab Sample ID: UG49C
LIMS ID: 12-1665
Matrix: Soil
Data Release Authorized: *P*
Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: 01/31/12
Date Received: 01/31/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 18:17

Sample Amount: 5.87 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.2%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.9	< 0.9	U
74-83-9	Bromomethane	0.9	< 0.9	U
75-01-4	Vinyl Chloride	0.9	< 0.9	U
75-00-3	Chloroethane	0.9	< 0.9	U
75-09-2	Methylene Chloride	1.7	< 1.7	U
67-64-1	Acetone	4.3	9.3	
75-15-0	Carbon Disulfide	0.9	< 0.9	U
75-35-4	1,1-Dichloroethene	0.9	< 0.9	U
75-34-3	1,1-Dichloroethane	0.9	< 0.9	U
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
67-66-3	Chloroform	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
78-93-3	2-Butanone	4.3	< 4.3	U
71-55-6	1,1,1-Trichloroethane	0.9	< 0.9	U
56-23-5	Carbon Tetrachloride	0.9	< 0.9	U
108-05-4	Vinyl Acetate	4.3	< 4.3	U
75-27-4	Bromodichloromethane	0.9	< 0.9	U
78-87-5	1,2-Dichloropropane	0.9	< 0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
124-48-1	Dibromochloromethane	0.9	< 0.9	U
79-00-5	1,1,2-Trichloroethane	0.9	< 0.9	U
71-43-2	Benzene	0.9	< 0.9	U
10061-02-6	trans-1,3-Dichloropropene	0.9	< 0.9	U
110-75-8	2-Chloroethylvinylether	4.3	< 4.3	U
75-25-2	Bromoform	0.9	< 0.9	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.3	< 4.3	U
591-78-6	2-Hexanone	4.3	< 4.3	U
127-18-4	Tetrachloroethene	0.9	2.2	
79-34-5	1,1,2,2-Tetrachloroethane	0.9	< 0.9	U
108-88-3	Toluene	0.9	< 0.9	U
108-90-7	Chlorobenzene	0.9	< 0.9	U
100-41-4	Ethylbenzene	0.9	< 0.9	U
100-42-5	Styrene	0.9	< 0.9	U
75-69-4	Trichlorofluoromethane	0.9	< 0.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	1.7	< 1.7	U
179601-23-1	m,p-Xylene	0.9	< 0.9	U
95-47-6	o-Xylene	0.9	< 0.9	U
95-50-1	1,2-Dichlorobenzene	0.9	< 0.9	U
541-73-1	1,3-Dichlorobenzene	0.9	< 0.9	U
106-46-7	1,4-Dichlorobenzene	0.9	< 0.9	U
107-02-8	Acrolein	43	< 43	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: SB-W-06-0790
SAMPLE

Lab Sample ID: UG49C
LIMS ID: 12-1665
Matrix: Soil
Date Analyzed: 02/02/12 18:17

QC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	0.9	< 0.9	U
74-96-4	Bromoethane	1.7	< 1.7	U
107-13-1	Acrylonitrile	4.3	< 4.3	U
563-58-6	1,1-Dichloropropene	0.9	< 0.9	U
74-95-3	Dibromomethane	0.9	< 0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	< 0.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	< 4.3	U
96-18-4	1,2,3-Trichloropropane	1.7	< 1.7	U
110-57-6	trans-1,4-Dichloro-2-butene	4.3	< 4.3	U
108-67-8	1,3,5-Trimethylbenzene	0.9	< 0.9	U
95-63-6	1,2,4-Trimethylbenzene	0.9	< 0.9	U
87-68-3	Hexachlorobutadiene	4.3	< 4.3	U
106-93-4	Ethylene Dibromide	0.9	< 0.9	U
74-97-5	Bromochloromethane	0.9	< 0.9	U
594-20-7	2,2-Dichloropropane	0.9	< 0.9	U
142-28-9	1,3-Dichloropropane	0.9	< 0.9	U
98-82-8	Isopropylbenzene	0.9	< 0.9	U
103-65-1	n-Propylbenzene	0.9	< 0.9	U
108-86-1	Bromobenzene	0.9	< 0.9	U
95-49-8	2-Chlorotoluene	0.9	< 0.9	U
106-43-4	4-Chlorotoluene	0.9	< 0.9	U
98-06-6	tert-Butylbenzene	0.9	< 0.9	U
135-98-8	sec-Butylbenzene	0.9	< 0.9	U
99-87-6	4-Isopropyltoluene	0.9	< 0.9	U
104-51-8	n-Butylbenzene	0.9	< 0.9	U
120-82-1	1,2,4-Trichlorobenzene	4.3	< 4.3	U
91-20-3	Naphthalene	4.3	< 4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	< 4.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.4%
d8-Toluene	97.7%
Bromofluorobenzene	96.5%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2Sample ID: Trip Blank
SAMPLELab Sample ID: UG49D
LIMS ID: 12-1666QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

Matrix: Water

Data Release Authorized: *B*Date Sampled: 01/30/12
Date Received: 01/31/12

Reported: 02/03/12

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 18:38Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	10	3.9	J
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UG49D
LIMS ID: 12-1666
Matrix: Water
Date Analyzed: 02/02/12 18:38

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	87.5%
d8-Toluene	96.4%
Bromofluorobenzene	94.3%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

 QC Report No: UG49-Windward Environmental, LLC
 Project: ALSCO Dexter

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-020212	Method Blank	Med	89.8%	96.4%	95.7%	99.8%	0
LCS-020212	Lab Control	Med	84.6%	96.6%	97.6%	98.4%	0
LCSD-020212	Lab Control Dup	Med	88.3%	96.5%	99.2%	98.7%	0
UG49A	SB-W-06-0590	Med	90.3%	97.8%	96.5%	102%	0
UG49B	SB-W-06-0715	Low	98.6%	97.6%	97.5%	103%	0
MB-020212	Method Blank	Low	89.8%	96.4%	95.7%	99.8%	0
LCS-020212	Lab Control	Low	84.6%	96.6%	97.6%	98.4%	0
LCSD-020212	Lab Control Dup	Low	88.3%	96.5%	99.2%	98.7%	0
UG49C	SB-W-06-0790	Low	95.4%	97.7%	96.5%	105%	0

LCS/MB LIMITS

	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 12-1663 to 12-1665

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020212	Method Blank	5	89.8%	96.4%	95.7%	99.8%	0
LCS-020212	Lab Control	5	84.6%	96.6%	97.6%	98.4%	0
LCSD-020212	Lab Control Dup	5	88.3%	96.5%	99.2%	98.7%	0
UG49D	Trip Blank	5	87.5%	96.4%	94.3%	100%	0

LCS/MB LIMITS

SW8260C
(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

QC LIMITS

80-122	80-125
80-120	80-120
80-120	80-120
80-120	80-120

Prep Method: SW5030B
Log Number Range: 12-1666 to 12-1666

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1665

Matrix: Soil

Data Release Authorized: *P*

Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC

Project: ALSCO Dexter

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/02/12 09:58

LCSD: 02/02/12 10:19

Date Sampled: NA

Date Received: NA

Sample Amount LCS: 5.00 g-dry-wt

LCSD: 5.00 g-dry-wt

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.2	50.0	92.4%	40.4	50.0	80.8%	13.4%
Bromomethane	46.6	50.0	93.2%	39.2	50.0	78.4%	17.2%
Vinyl Chloride	49.5	50.0	99.0%	43.8	50.0	87.6%	12.2%
Chloroethane	38.7 Q	50.0	77.4%	34.2 Q	50.0	68.4%	12.3%
Methylene Chloride	40.2 B	50.0	80.4%	37.6 B	50.0	75.2%	6.7%
Acetone	233	250	93.2%	213	250	85.2%	9.0%
Carbon Disulfide	50.8	50.0	102%	45.5	50.0	91.0%	11.0%
1,1-Dichloroethene	49.4	50.0	98.8%	44.8	50.0	89.6%	9.8%
1,1-Dichloroethane	48.1	50.0	96.2%	41.3	50.0	82.6%	15.2%
trans-1,2-Dichloroethene	46.9	50.0	93.8%	43.1	50.0	86.2%	8.4%
cis-1,2-Dichloroethene	45.3	50.0	90.6%	42.3	50.0	84.6%	6.8%
Chloroform	45.0	50.0	90.0%	42.2	50.0	84.4%	6.4%
1,2-Dichloroethane	47.1	50.0	94.2%	43.5	50.0	87.0%	7.9%
2-Butanone	212	250	84.8%	196	250	78.4%	7.8%
1,1,1-Trichloroethane	48.3	50.0	96.6%	44.5	50.0	89.0%	8.2%
Carbon Tetrachloride	45.9	50.0	91.8%	40.9	50.0	81.8%	11.5%
Vinyl Acetate	45.1	50.0	90.2%	42.5	50.0	85.0%	5.9%
Bromodichloromethane	51.8	50.0	104%	47.9	50.0	95.8%	7.8%
1,2-Dichloropropane	48.9	50.0	97.8%	45.3	50.0	90.6%	7.6%
cis-1,3-Dichloropropene	52.6	50.0	105%	48.5	50.0	97.0%	8.1%
Trichloroethene	52.4	50.0	105%	46.6	50.0	93.2%	11.7%
Dibromochloromethane	46.0	50.0	92.0%	41.9	50.0	83.8%	9.3%
1,1,2-Trichloroethane	48.0	50.0	96.0%	44.4	50.0	88.8%	7.8%
Benzene	50.5	50.0	101%	45.8	50.0	91.6%	9.8%
trans-1,3-Dichloropropene	53.2	50.0	106%	49.1	50.0	98.2%	8.0%
2-Chloroethylvinylether	44.9	50.0	89.8%	39.4	50.0	78.8%	13.0%
Bromoform	45.3	50.0	90.6%	40.1	50.0	80.2%	12.2%
4-Methyl-2-Pentanone (MIBK)	245	250	98.0%	222	250	88.8%	9.9%
2-Hexanone	256	250	102%	227	250	90.8%	12.0%
Tetrachloroethene	56.6	50.0	113%	49.2	50.0	98.4%	14.0%
1,1,2,2-Tetrachloroethane	51.2	50.0	102%	45.9	50.0	91.8%	10.9%
Toluene	48.8	50.0	97.6%	43.6	50.0	87.2%	11.3%
Chlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
Ethylbenzene	53.8	50.0	108%	47.2	50.0	94.4%	13.1%
Styrene	54.8	50.0	110%	48.8	50.0	97.6%	11.6%
Trichlorofluoromethane	50.6	50.0	101%	44.9	50.0	89.8%	11.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	49.7	50.0	99.4%	45.0	50.0	90.0%	9.9%
m,p-Xylene	110	100	110%	95.6	100	95.6%	14.0%
o-Xylene	53.0	50.0	106%	47.3	50.0	94.6%	11.4%
1,2-Dichlorobenzene	50.4	50.0	101%	44.7	50.0	89.4%	12.0%
1,3-Dichlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
1,4-Dichlorobenzene	51.0	50.0	102%	44.9	50.0	89.8%	12.7%
Acrolein	217	250	86.8%	201	250	80.4%	7.7%
Methyl Iodide	59.9	50.0	120%	51.0	50.0	102%	16.1%
Bromoethane	47.0	50.0	94.0%	42.3	50.0	84.6%	10.5%
Acrylonitrile	43.0	50.0	86.0%	39.2	50.0	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1665
Matrix: Soil

QC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	52.8	50.0	106%	47.1	50.0	94.2%	11.4%
Dibromomethane	48.5	50.0	97.0%	44.4	50.0	88.8%	8.8%
1,1,1,2-Tetrachloroethane	55.8	50.0	112%	50.5	50.0	101%	10.0%
1,2-Dibromo-3-chloropropane	54.6	50.0	109%	47.2	50.0	94.4%	14.5%
1,2,3-Trichloropropane	51.4	50.0	103%	45.5	50.0	91.0%	12.2%
trans-1,4-Dichloro-2-butene	54.5	50.0	109%	47.7	50.0	95.4%	13.3%
1,3,5-Trimethylbenzene	54.0	50.0	108%	47.6	50.0	95.2%	12.6%
1,2,4-Trimethylbenzene	53.3	50.0	107%	47.2	50.0	94.4%	12.1%
Hexachlorobutadiene	53.1	50.0	106%	46.0	50.0	92.0%	14.3%
Ethylene Dibromide	49.4	50.0	98.8%	45.1	50.0	90.2%	9.1%
Bromochloromethane	44.2	50.0	88.4%	41.5	50.0	83.0%	6.3%
2,2-Dichloropropane	48.7	50.0	97.4%	44.9	50.0	89.8%	8.1%
1,3-Dichloropropane	49.9	50.0	99.8%	45.9	50.0	91.8%	8.4%
Isopropylbenzene	54.3	50.0	109%	47.8	50.0	95.6%	12.7%
n-Propylbenzene	55.3	50.0	111%	48.3	50.0	96.6%	13.5%
Bromobenzene	50.0	50.0	100%	45.0	50.0	90.0%	10.5%
2-Chlorotoluene	52.7	50.0	105%	46.2	50.0	92.4%	13.1%
4-Chlorotoluene	52.3	50.0	105%	45.9	50.0	91.8%	13.0%
tert-Butylbenzene	53.5	50.0	107%	47.1	50.0	94.2%	12.7%
sec-Butylbenzene	55.5	50.0	111%	48.6	50.0	97.2%	13.3%
4-Isopropyltoluene	55.8	50.0	112%	48.6	50.0	97.2%	13.8%
n-Butylbenzene	56.8	50.0	114%	48.8	50.0	97.6%	15.2%
1,2,4-Trichlorobenzene	51.7	50.0	103%	45.5	50.0	91.0%	12.8%
Naphthalene	50.4 B	50.0	101%	43.6 B	50.0	87.2%	14.5%
1,2,3-Trichlorobenzene	50.0	50.0	100%	43.8	50.0	87.6%	13.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020212

**ANALYTICAL
RESOURCES
INCORPORATED**


Lab Sample ID: LCS-020212
 LIMS ID: 12-1663
 Matrix: Soil
 Data Release Authorized: *R*
 Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC
 Project: ALSCO Dexter

Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: NT9/PAB
 LCSD: NT9/PAB
 Date Analyzed LCS: 02/02/12 09:58
 LCSD: 02/02/12 10:19

Sample Amount LCS: 100 mg-dry-wt
 LCSD: 100 mg-dry-wt
 Purge Volume LCS: 5.0 mL
 LCSD: 5.0 mL
 Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	2310	2500	92.4%	2020	2500	80.8%	13.4%
Bromomethane	2330	2500	93.2%	1960	2500	78.4%	17.2%
Vinyl Chloride	2480	2500	99.2%	2190	2500	87.6%	12.4%
Chloroethane	1930 Q	2500	77.2%	1710 Q	2500	68.4%	12.1%
Methylene Chloride	2010 B	2500	80.4%	1880 B	2500	75.2%	6.7%
Acetone	11600	12500	92.8%	10700	12500	85.6%	8.1%
Carbon Disulfide	2540	2500	102%	2280	2500	91.2%	10.8%
1,1-Dichloroethene	2470	2500	98.8%	2240	2500	89.6%	9.8%
1,1-Dichloroethane	2400	2500	96.0%	2060	2500	82.4%	15.2%
trans-1,2-Dichloroethene	2350	2500	94.0%	2150	2500	86.0%	8.9%
cis-1,2-Dichloroethene	2270	2500	90.8%	2120	2500	84.8%	6.8%
Chloroform	2250	2500	90.0%	2110	2500	84.4%	6.4%
1,2-Dichloroethane	2350	2500	94.0%	2180	2500	87.2%	7.5%
2-Butanone	10600	12500	84.8%	9790	12500	78.3%	7.9%
1,1,1-Trichloroethane	2410	2500	96.4%	2230	2500	89.2%	7.8%
Carbon Tetrachloride	2290	2500	91.6%	2040	2500	81.6%	11.5%
Vinyl Acetate	2250	2500	90.0%	2120	2500	84.8%	5.9%
Bromodichloromethane	2590	2500	104%	2390	2500	95.6%	8.0%
1,2-Dichloropropane	2440	2500	97.6%	2270	2500	90.8%	7.2%
cis-1,3-Dichloropropene	2630	2500	105%	2420	2500	96.8%	8.3%
Trichloroethene	2620	2500	105%	2330	2500	93.2%	11.7%
Dibromochloromethane	2300	2500	92.0%	2090	2500	83.6%	9.6%
1,1,2-Trichloroethane	2400	2500	96.0%	2220	2500	88.8%	7.8%
Benzene	2520	2500	101%	2290	2500	91.6%	9.6%
trans-1,3-Dichloropropene	2660	2500	106%	2450	2500	98.0%	8.2%
2-Chloroethylvinylether	2240	2500	89.6%	1970	2500	78.8%	12.8%
Bromoform	2270	2500	90.8%	2010	2500	80.4%	12.1%
4-Methyl-2-Pentanone (MIBK)	12300	12500	98.4%	11100	12500	88.8%	10.3%
2-Hexanone	12800	12500	102%	11400	12500	91.2%	11.6%
Tetrachloroethene	2830	2500	113%	2460	2500	98.4%	14.0%
1,1,2,2-Tetrachloroethane	2560	2500	102%	2290	2500	91.6%	11.1%
Toluene	2440	2500	97.6%	2180	2500	87.2%	11.3%
Chlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
Ethylbenzene	2690	2500	108%	2360	2500	94.4%	13.1%
Styrene	2740	2500	110%	2440	2500	97.6%	11.6%
Trichlorofluoromethane	2530	2500	101%	2240	2500	89.6%	12.2%
1,1,2-Trichloro-1,2,2-trifluoroethane	2490	2500	99.6%	2250	2500	90.0%	10.1%
m,p-Xylene	5480	5000	110%	4780	5000	95.6%	13.6%
o-Xylene	2650	2500	106%	2360	2500	94.4%	11.6%
1,2-Dichlorobenzene	2520	2500	101%	2230	2500	89.2%	12.2%
1,3-Dichlorobenzene	2600	2500	104%	2300	2500	92.0%	12.2%
1,4-Dichlorobenzene	2550	2500	102%	2240	2500	89.6%	12.9%
Acrolein	10800	12500	86.4%	10100	12500	80.8%	6.7%
Methyl Iodide	3000	2500	120%	2550	2500	102%	16.2%
Bromoethane	2350	2500	94.0%	2110	2500	84.4%	10.8%
Acrylonitrile	2150	2500	86.0%	1960	2500	78.4%	9.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1663
Matrix: Soil

QC Report No: UG49-Windward Environmental, LLC
Project: ALS CO Dexter

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,1-Dichloropropene	2640	2500	106%	2360	2500	94.4%	11.2%
Dibromomethane	2420	2500	96.8%	2220	2500	88.8%	8.6%
1,1,1,2-Tetrachloroethane	2790	2500	112%	2520	2500	101%	10.2%
1,2-Dibromo-3-chloropropane	2730	2500	109%	2360	2500	94.4%	14.5%
1,2,3-Trichloropropane	2570	2500	103%	2280	2500	91.2%	12.0%
trans-1,4-Dichloro-2-butene	2720	2500	109%	2390	2500	95.6%	12.9%
1,3,5-Trimethylbenzene	2700	2500	108%	2380	2500	95.2%	12.6%
1,2,4-Trimethylbenzene	2660	2500	106%	2360	2500	94.4%	12.0%
Hexachlorobutadiene	2650	2500	106%	2300	2500	92.0%	14.1%
Ethylene Dibromide	2470	2500	98.8%	2260	2500	90.4%	8.9%
Bromochloromethane	2210	2500	88.4%	2070	2500	82.8%	6.5%
2,2-Dichloropropane	2430	2500	97.2%	2250	2500	90.0%	7.7%
1,3-Dichloropropane	2500	2500	100%	2300	2500	92.0%	8.3%
Isopropylbenzene	2720	2500	109%	2390	2500	95.6%	12.9%
n-Propylbenzene	2760	2500	110%	2420	2500	96.8%	13.1%
Bromobenzene	2500	2500	100%	2250	2500	90.0%	10.5%
2-Chlorotoluene	2630	2500	105%	2310	2500	92.4%	13.0%
4-Chlorotoluene	2610	2500	104%	2300	2500	92.0%	12.6%
tert-Butylbenzene	2670	2500	107%	2360	2500	94.4%	12.3%
sec-Butylbenzene	2770	2500	111%	2430	2500	97.2%	13.1%
4-Isopropyltoluene	2790	2500	112%	2430	2500	97.2%	13.8%
n-Butylbenzene	2840	2500	114%	2440	2500	97.6%	15.2%
1,2,4-Trichlorobenzene	2580	2500	103%	2270	2500	90.8%	12.8%
Naphthalene	2520 B	2500	101%	2180 B	2500	87.2%	14.5%
1,2,3-Trichlorobenzene	2500	2500	100%	2190	2500	87.6%	13.2%

Reported in $\mu\text{g}/\text{kg}$ (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212

LIMS ID: 12-1666

Matrix: Water

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC

Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT9/PAB

LCSD: NT9/PAB

Date Analyzed LCS: 02/02/12 09:58

LCSD: 02/02/12 10:19

Sample Amount LCS: 5.00 mL

LCSD: 5.00 mL

Purge Volume LCS: 5.0 mL

LCSD: 5.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	46.2	50.0	92.4%	40.4	50.0	80.8%	13.4%
Bromomethane	46.6	50.0	93.2%	39.2	50.0	78.4%	17.2%
Vinyl Chloride	49.5	50.0	99.0%	43.8	50.0	87.6%	12.2%
Chloroethane	38.7 Q	50.0	77.4%	34.2 Q	50.0	68.4%	12.3%
Methylene Chloride	40.2 B	50.0	80.4%	37.6 B	50.0	75.2%	6.7%
Acetone	233	250	93.2%	213	250	85.2%	9.0%
Carbon Disulfide	50.8	50.0	102%	45.5	50.0	91.0%	11.0%
1,1-Dichloroethene	49.4	50.0	98.8%	44.8	50.0	89.6%	9.8%
1,1-Dichloroethane	48.1	50.0	96.2%	41.3	50.0	82.6%	15.2%
trans-1,2-Dichloroethene	46.9	50.0	93.8%	43.1	50.0	86.2%	8.4%
cis-1,2-Dichloroethene	45.3	50.0	90.6%	42.3	50.0	84.6%	6.8%
Chloroform	45.0	50.0	90.0%	42.2	50.0	84.4%	6.4%
1,2-Dichloroethane	47.1	50.0	94.2%	43.5	50.0	87.0%	7.9%
2-Butanone	212	250	84.8%	196	250	78.4%	7.8%
1,1,1-Trichloroethane	48.3	50.0	96.6%	44.5	50.0	89.0%	8.2%
Carbon Tetrachloride	45.9	50.0	91.8%	40.9	50.0	81.8%	11.5%
Vinyl Acetate	45.1	50.0	90.2%	42.5	50.0	85.0%	5.9%
Bromodichloromethane	51.8	50.0	104%	47.9	50.0	95.8%	7.8%
1,2-Dichloropropane	48.9	50.0	97.8%	45.3	50.0	90.6%	7.6%
cis-1,3-Dichloropropene	52.6	50.0	105%	48.5	50.0	97.0%	8.1%
Trichloroethene	52.4	50.0	105%	46.6	50.0	93.2%	11.7%
Dibromochloromethane	46.0	50.0	92.0%	41.9	50.0	83.8%	9.3%
1,1,2-Trichloroethane	48.0	50.0	96.0%	44.4	50.0	88.8%	7.8%
Benzene	50.5	50.0	101%	45.8	50.0	91.6%	9.8%
trans-1,3-Dichloropropene	53.2	50.0	106%	49.1	50.0	98.2%	8.0%
2-Chloroethylvinylether	44.9	50.0	89.8%	39.4	50.0	78.8%	13.0%
Bromoform	45.3	50.0	90.6%	40.1	50.0	80.2%	12.2%
4-Methyl-2-Pentanone (MIBK)	245	250	98.0%	222	250	88.8%	9.9%
2-Hexanone	256	250	102%	227	250	90.8%	12.0%
Tetrachloroethene	56.6	50.0	113%	49.2	50.0	98.4%	14.0%
1,1,2,2-Tetrachloroethane	51.2	50.0	102%	45.9	50.0	91.8%	10.9%
Toluene	48.8	50.0	97.6%	43.6	50.0	87.2%	11.3%
Chlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
Ethylbenzene	53.8	50.0	108%	47.2	50.0	94.4%	13.1%
Styrene	54.8	50.0	110%	48.8	50.0	97.6%	11.6%
Trichlorofluoromethane	50.6	50.0	101%	44.9	50.0	89.8%	11.9%
1,1,2-Trichloro-1,2,2-trifluoroethane	49.7	50.0	99.4%	45.0	50.0	90.0%	9.9%
m,p-Xylene	110	100	110%	95.6	100	95.6%	14.0%
o-Xylene	53.0	50.0	106%	47.3	50.0	94.6%	11.4%
1,2-Dichlorobenzene	50.4	50.0	101%	44.7	50.0	89.4%	12.0%
1,3-Dichlorobenzene	52.0	50.0	104%	46.0	50.0	92.0%	12.2%
1,4-Dichlorobenzene	51.0	50.0	102%	44.9	50.0	89.8%	12.7%
Acrolein	217	250	86.8%	201	250	80.4%	7.7%
Methyl Iodide	59.9	50.0	120%	51.0	50.0	102%	16.1%
Bromoethane	47.0	50.0	94.0%	42.3	50.0	84.6%	10.5%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020212

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020212
LIMS ID: 12-1666
Matrix: WaterQC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO Dexter

Analyte	LCS	Spike	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
Acrylonitrile	43.0	50.0	86.0%	39.2	50.0	78.4% 9.2%
1,1-Dichloropropene	52.8	50.0	106%	47.1	50.0	94.2% 11.4%
Dibromomethane	48.5	50.0	97.0%	44.4	50.0	88.8% 8.8%
1,1,1,2-Tetrachloroethane	55.8	50.0	112%	50.5	50.0	101% 10.0%
1,2-Dibromo-3-chloropropane	54.6	50.0	109%	47.2	50.0	94.4% 14.5%
1,2,3-Trichloropropane	51.4	50.0	103%	45.5	50.0	91.0% 12.2%
trans-1,4-Dichloro-2-butene	54.5	50.0	109%	47.7	50.0	95.4% 13.3%
1,3,5-Trimethylbenzene	54.0	50.0	108%	47.6	50.0	95.2% 12.6%
1,2,4-Trimethylbenzene	53.3	50.0	107%	47.2	50.0	94.4% 12.1%
Hexachlorobutadiene	53.1	50.0	106%	46.0	50.0	92.0% 14.3%
Ethylene Dibromide	49.4	50.0	98.8%	45.1	50.0	90.2% 9.1%
Bromochloromethane	44.2	50.0	88.4%	41.5	50.0	83.0% 6.3%
2,2-Dichloropropane	48.7	50.0	97.4%	44.9	50.0	89.8% 8.1%
1,3-Dichloropropane	49.9	50.0	99.8%	45.9	50.0	91.8% 8.4%
Isopropylbenzene	54.3	50.0	109%	47.8	50.0	95.6% 12.7%
n-Propylbenzene	55.3	50.0	111%	48.3	50.0	96.6% 13.5%
Bromobenzene	50.0	50.0	100%	45.0	50.0	90.0% 10.5%
2-Chlorotoluene	52.7	50.0	105%	46.2	50.0	92.4% 13.1%
4-Chlorotoluene	52.3	50.0	105%	45.9	50.0	91.8% 13.0%
tert-Butylbenzene	53.5	50.0	107%	47.1	50.0	94.2% 12.7%
sec-Butylbenzene	55.5	50.0	111%	48.6	50.0	97.2% 13.3%
4-Isopropyltoluene	55.8	50.0	112%	48.6	50.0	97.2% 13.8%
n-Butylbenzene	56.8	50.0	114%	48.8	50.0	97.6% 15.2%
1,2,4-Trichlorobenzene	51.7	50.0	103%	45.5	50.0	91.0% 12.8%
Naphthalene	50.4 B	50.0	101%	43.6 B	50.0	87.2% 14.5%
1,2,3-Trichlorobenzene	50.0	50.0	100%	43.8	50.0	87.6% 13.2%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	84.6%	88.3%
d8-Toluene	96.6%	96.5%
Bromofluorobenzene	97.6%	99.2%
d4-1,2-Dichlorobenzene	98.4%	98.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2Sample ID: MB-020212
METHOD BLANKLab Sample ID: MB-020212
LIMS ID: 12-1665
Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 02/03/12QC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO DexterDate Sampled: NA
Date Received: NAInstrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 10:41Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.0	J
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212
LIMS ID: 12-1665
Matrix: Soil
Date Analyzed: 02/02/12 10:41

QC Report No: UG49-Windward Environmental, LLC
Project: ALS CO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2ANALYTICAL
RESOURCES
INCORPORATEDSample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1663

Matrix: Soil

Data Release Authorized:

Reported: 02/03/12

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

Date Sampled: NA

Date Received: NA

Instrument/Analyst: NT9/PAB
Date Analyzed: 02/02/12 10:41Sample Amount: 100 mg-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	50	< 50	U
75-01-4	Vinyl Chloride	50	< 50	U
75-00-3	Chloroethane	50	< 50	U
75-09-2	Methylene Chloride	100	50	J
67-64-1	Acetone	250	< 250	U
75-15-0	Carbon Disulfide	50	< 50	U
75-35-4	1,1-Dichloroethene	50	< 50	U
75-34-3	1,1-Dichloroethane	50	< 50	U
156-60-5	trans-1,2-Dichloroethene	50	< 50	U
156-59-2	cis-1,2-Dichloroethene	50	< 50	U
67-66-3	Chloroform	50	< 50	U
107-06-2	1,2-Dichloroethane	50	< 50	U
78-93-3	2-Butanone	250	< 250	U
71-55-6	1,1,1-Trichloroethane	50	< 50	U
56-23-5	Carbon Tetrachloride	50	< 50	U
108-05-4	Vinyl Acetate	250	< 250	U
75-27-4	Bromodichloromethane	50	< 50	U
78-87-5	1,2-Dichloropropane	50	< 50	U
10061-01-5	cis-1,3-Dichloropropene	50	< 50	U
79-01-6	Trichloroethene	50	< 50	U
124-48-1	Dibromochloromethane	50	< 50	U
79-00-5	1,1,2-Trichloroethane	50	< 50	U
71-43-2	Benzene	50	< 50	U
10061-02-6	trans-1,3-Dichloropropene	50	< 50	U
110-75-8	2-Chloroethylvinylether	250	< 250	U
75-25-2	Bromoform	50	< 50	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250	< 250	U
591-78-6	2-Hexanone	250	< 250	U
127-18-4	Tetrachloroethene	50	< 50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	< 50	U
108-88-3	Toluene	50	< 50	U
108-90-7	Chlorobenzene	50	< 50	U
100-41-4	Ethylbenzene	50	< 50	U
100-42-5	Styrene	50	< 50	U
75-69-4	Trichlorofluoromethane	50	< 50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	50	< 50	U
95-47-6	o-Xylene	50	< 50	U
95-50-1	1,2-Dichlorobenzene	50	< 50	U
541-73-1	1,3-Dichlorobenzene	50	< 50	U
106-46-7	1,4-Dichlorobenzene	50	< 50	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212

LIMS ID: 12-1663

Matrix: Soil

Date Analyzed: 02/02/12 10:41

QC Report No: UG49-Windward Environmental, LLC
Project: ALSCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	50	< 50	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	250	< 250	U
563-58-6	1,1-Dichloropropene	50	< 50	U
74-95-3	Dibromomethane	50	< 50	U
630-20-6	1,1,2-Tetrachloroethane	50	< 50	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	250	< 250	U
108-67-8	1,3,5-Trimethylbenzene	50	< 50	U
95-63-6	1,2,4-Trimethylbenzene	50	< 50	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	50	< 50	U
74-97-5	Bromochloromethane	50	< 50	U
594-20-7	2,2-Dichloropropane	50	< 50	U
142-28-9	1,3-Dichloropropane	50	< 50	U
98-82-8	Isopropylbenzene	50	< 50	U
103-65-1	n-Propylbenzene	50	< 50	U
108-86-1	Bromobenzene	50	< 50	U
95-49-8	2-Chlorotoluene	50	< 50	U
106-43-4	4-Chlorotoluene	50	< 50	U
98-06-6	tert-Butylbenzene	50	< 50	U
135-98-8	sec-Butylbenzene	50	< 50	U
99-87-6	4-Isopropyltoluene	50	< 50	U
104-51-8	n-Butylbenzene	50	< 50	U
120-82-1	1,2,4-Trichlorobenzene	250	< 250	U
91-20-3	Naphthalene	250	28	J
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


 Sample ID: MB-020212
 METHOD BLANK

Lab Sample ID: MB-020212

 QC Report No: UG49-Windward Environmental, LLC
 Project: ALSOCO Dexter

LIMS ID: 12-1666

Matrix: Water

Data Release Authorized:

Date Sampled: NA

Reported: 02/03/12

Date Received: NA

Instrument/Analyst: NT9/PAB

Sample Amount: 5.00 mL

Date Analyzed: 02/02/12 10:41

Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	1.0	J
67-64-1	Acetone	10	< 10	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	2.0	< 2.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	10	< 10	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020212
METHOD BLANK

Lab Sample ID: MB-020212
LIMS ID: 12-1666
Matrix: Water
Date Analyzed: 02/02/12 10:41

QC Report No: UG49-Windward Environmental, LLC
Project: ALSOCO Dexter

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	5.0	< 5.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	0.6	J
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	89.8%
d8-Toluene	96.4%
Bromofluorobenzene	95.7%
d4-1,2-Dichlorobenzene	99.8%



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 7, 2012

Nate Lewis
Windward Environmental
200 West Mercer Street Suite 401
Seattle, WA 98119

RE: American Linen GW Sampling
ARI Job No.: UH14

Dear Nate:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted five water samples and a trip blank on February 3, 2012. The cooler temperature measured by IR thermometer following ARI SOP was 12.3°C. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, as requested.

The continuing calibration (CCAL) on February 6, 2012 was outside the 20% control limit high for Bromoform. All detected results associated with this CCAL have been flagged with a "Q" qualifier. No further corrective action was taken.

Hexachlorobutadiene, Naphthalene, and 1,2,3-Trichlorobenzene were present in **MB-020412** at levels that were greater than ½ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

Hexachlorobutadiene, 1,2,4-Trichlorobenzene, Naphthalene, and 1,2,3-Trichlorobenzene were present in **MB-020612** at levels that were greater than ½ the reporting limit. All detected results associated with this method blank have been flagged with a "B" qualifier. No further corrective action was taken.

The LCS and LCSD percent recoveries of Bromoform were outside control limits high for **LCS-020612**. No corrective action was taken.

The matrix spike and matrix spike duplicate percent recoveries of Bromoform and Tetrachloroethene were outside advisory control limits for sample **GW-W-04-01**. No corrective action is required for matrix QC.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.


Cheronne Oreiro
Project Manager
-For-
Susan D. Dunnahoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures
cc: eFile UH14

Page 1 of *42*



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward

COC No(s): 2883 NA

Assigned ARI Job No: UH4

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 12.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 96941619

Cooler Accepted by: TS Date: 2-3-12 Time: 130

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: NA YES NO

Was sufficient ice used (if appropriate)? YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: 1-23-12

Was Sample Split by ARI: YES Date/Time: Equipment: Equipment: Split by: 1-23-12

Samples Logged by: TS Date: 2-3-12 Time: 1330

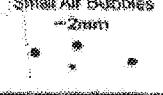
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip blank 1"pb"

By: TS Date: 2-3-12

<small>Small Air Bubbles ~2mm</small> 	<small>Peabubbles 2-4 mm</small> 	<small>LARGE Air Bubbles > 4 mm</small> 	<small>Small → "sm"</small> <small>Peabubbles → "pb"</small> <small>Large → "lg"</small> <small>Headspace → "hs"</small>

Sample ID Cross Reference Report



ARI Job No: UH14
Client: Windward Environmental, LLC
Project Event: N/A
Project Name: American Linen GW Sampling

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. GW-W-04-01	UH14A	12-2081	Water	02/02/12 10:37	02/03/12 13:10
2. GW-W-04-02	UH14B	12-2082	Water	02/02/12 10:40	02/03/12 13:10
3. GW-W-03-01	UH14C	12-2083	Water	02/02/12 12:45	02/03/12 13:10
4. GW-W-01-01	UH14D	12-2084	Water	02/02/12 15:19	02/03/12 13:10
5. GW-W-02-01	UH14E	12-2085	Water	02/03/12 10:35	02/03/12 13:10
6. Trip Blank	UH14F	12-2086	Water	02/02/12	02/03/12 13:10



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).



Analytical Resources, Incorporated
Analytical Chemists and Consultants

- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria"
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions.
(Dioxin/Furan analysis only)



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: GW-W-04-01

SAMPLE

Lab Sample ID: UH14A

LIMS ID: 12-2081

Matrix: Water

Data Release Authorized:

Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

Date Sampled: 02/02/12

Date Received: 02/03/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/04/12 12:36

Sample Amount: 0.100 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	< 20	U
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	310	J
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	< 20	U
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	54	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	160	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	6,500	E
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	o-Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-04-01
SAMPLE

Lab Sample ID: UH14A
LIMS ID: 12-2081
Matrix: Water
Date Analyzed: 02/04/12 12:36

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	99.1%
Bromofluorobenzene	97.1%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


Sample ID: GW-W-04-01

DILUTION

Lab Sample ID: UH14A

LIMS ID: 12-2081

Matrix: Water

Data Release Authorized:

Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

Date Sampled: 02/02/12

Date Received: 02/03/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/06/12 11:49

Sample Amount: 0.0500 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	< 100	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	40	< 40	U
75-00-3	Chloroethane	40	< 40	U
75-09-2	Methylene Chloride	200	< 200	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	40	< 40	U
75-35-4	1,1-Dichloroethene	40	< 40	U
75-34-3	1,1-Dichloroethane	40	< 40	U
156-60-5	trans-1,2-Dichloroethene	40	< 40	U
156-59-2	cis-1,2-Dichloroethene	40	50	
67-66-3	Chloroform	40	< 40	U
107-06-2	1,2-Dichloroethane	40	< 40	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	40	< 40	U
56-23-5	Carbon Tetrachloride	40	< 40	U
108-05-4	Vinyl Acetate	40	< 40	U
75-27-4	Bromodichloromethane	40	< 40	U
78-87-5	1,2-Dichloropropane	40	< 40	U
10061-01-5	cis-1,3-Dichloropropene	40	< 40	U
79-01-6	Trichloroethene	40	150	
124-48-1	Dibromochloromethane	40	< 40	U
79-00-5	1,1,2-Trichloroethane	40	< 40	U
71-43-2	Benzene	40	< 40	U
10061-02-6	trans-1,3-Dichloropropene	40	< 40	U
110-75-8	2-Chloroethylvinylether	200	< 200	U
75-25-2	Bromoform	40	< 40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	40	5,400	
79-34-5	1,1,2,2-Tetrachloroethane	40	< 40	U
108-88-3	Toluene	40	< 40	U
108-90-7	Chlorobenzene	40	< 40	U
100-41-4	Ethylbenzene	40	< 40	U
100-42-5	Styrene	40	< 40	U
75-69-4	Trichlorofluoromethane	40	< 40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	40	< 40	U
179601-23-1	m,p-Xylene	80	< 80	U
95-47-6	c-Xylene	40	< 40	U
95-50-1	1,2-Dichlorobenzene	40	< 40	U
541-73-1	1,3-Dichlorobenzene	40	< 40	U
106-46-7	1,4-Dichlorobenzene	40	< 40	U
107-02-8	Acrolein	1,000	< 1,000	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: GW-W-04-01

DILUTION

Lab Sample ID: UH14A

LIMS ID: 12-2081

Matrix: Water

Date Analyzed: 02/06/12 11:49

**ANALYTICAL
RESOURCES
INCORPORATED**


QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	40	< 40	U
107-13-1	Acrylonitrile	200	< 200	U
563-58-6	1,1-Dichloropropene	40	< 40	U
74-95-3	Dibromomethane	40	< 40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	< 40	U
96-12-8	1,2-Dibromo-3-chloropropane	100	< 100	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	200	< 200	U
108-67-8	1,3,5-Trimethylbenzene	40	< 40	U
95-63-6	1,2,4-Trimethylbenzene	40	< 40	U
87-68-3	Hexachlorobutadiene	100	< 100	U
106-93-4	Ethylene Dibromide	40	< 40	U
74-97-5	Bromochloromethane	40	< 40	U
594-20-7	2,2-Dichloropropane	40	< 40	U
142-28-9	1,3-Dichloropropane	40	< 40	U
98-82-8	Isopropylbenzene	40	< 40	U
103-65-1	n-Propylbenzene	40	< 40	U
108-86-1	Bromobenzene	40	< 40	U
95-49-8	2-Chlorotoluene	40	< 40	U
106-43-4	4-Chlorotoluene	40	< 40	U
98-06-6	tert-Butylbenzene	40	< 40	U
135-98-8	sec-Butylbenzene	40	< 40	U
99-87-6	4-Isopropyltoluene	40	< 40	U
104-51-8	n-Butylbenzene	40	< 40	U
120-82-1	1,2,4-Trichlorobenzene	100	< 100	U
91-20-3	Naphthalene	100	< 100	U
87-61-6	1,2,3-Trichlorobenzene	100	< 100	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	99.5%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


Sample ID: GW-W-04-02

SAMPLE

Lab Sample ID: UH14B

LIMS ID: 12-2082

Matrix: Water

Data Release Authorized:

Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

Date Sampled: 02/02/12

Date Received: 02/03/12

Instrument/Analyst: NT2/PKC

Date Analyzed: 02/04/12 13:05

Sample Amount: 0.100 mL

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	< 20	U
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	320	J
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	< 20	U
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	61	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	170	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	6,900	E
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	<i>o</i> -Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-04-02
SAMPLE

Lab Sample ID: UH14B
LIMS ID: 12-2082
Matrix: Water
Date Analyzed: 02/04/12 13:05

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%
Bromofluorobenzene	96.0%
d4-1,2-Dichlorobenzene	102%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatile & Trap GC/MS-Method SW8260C
Page 1 of 2ANALYTICAL
RESOURCES
INCORPORATEDSample ID: GW-W-04-02
DILUTIONLab Sample ID: UH14B
LIMS ID: 12-2082
Matrix: Water
Data Release Authorized: *B*
Reported: 02/06/12QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW SamplingDate Sampled: 02/02/12
Date Received: 02/03/12Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 13:09Sample Amount: 0.0500 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	< 100	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	40	< 40	U
75-00-3	Chloroethane	40	< 40	U
75-09-2	Methylene Chloride	200	< 200	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	40	< 40	U
75-35-4	1,1-Dichloroethene	40	< 40	U
75-34-3	1,1-Dichloroethane	40	< 40	U
156-60-5	trans-1,2-Dichloroethene	40	< 40	U
156-59-2	cis-1,2-Dichloroethene	40	50	
67-66-3	Chloroform	40	< 40	U
107-06-2	1,2-Dichloroethane	40	< 40	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	40	< 40	U
56-23-5	Carbon Tetrachloride	40	< 40	U
108-05-4	Vinyl Acetate	40	< 40	U
75-27-4	Bromodichloromethane	40	< 40	U
78-87-5	1,2-Dichloropropane	40	< 40	U
10061-01-5	cis-1,3-Dichloropropene	40	< 40	U
79-01-6	Trichloroethene	40	140	
124-48-1	Dibromochloromethane	40	< 40	U
79-00-5	1,1,2-Trichloroethane	40	< 40	U
71-43-2	Benzene	40	< 40	U
10061-02-6	trans-1,3-Dichloropropene	40	< 40	U
110-75-8	2-Chloroethylvinylether	200	< 200	U
75-25-2	Bromoform	40	< 40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	40	5,200	
79-34-5	1,1,2,2-Tetrachloroethane	40	< 40	U
108-88-3	Toluene	40	< 40	U
108-90-7	Chlorobenzene	40	< 40	U
100-41-4	Ethylbenzene	40	< 40	U
100-42-5	Styrene	40	< 40	U
75-69-4	Trichlorofluoromethane	40	< 40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	40	< 40	U
179601-23-1	m,p-Xylene	80	< 80	U
95-47-6	o-Xylene	40	< 40	U
95-50-1	1,2-Dichlorobenzene	40	< 40	U
541-73-1	1,3-Dichlorobenzene	40	< 40	U
106-46-7	1,4-Dichlorobenzene	40	< 40	U
107-02-8	Acrolein	1,000	< 1,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-04-02
DILUTION

Lab Sample ID: UH14B
LIMS ID: 12-2082
Matrix: Water
Date Analyzed: 02/06/12 13:09

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	40	< 40	U
107-13-1	Acrylonitrile	200	< 200	U
563-58-6	1,1-Dichloropropene	40	< 40	U
74-95-3	Dibromomethane	40	< 40	U
630-20-6	1,1,1,2-Tetrachloroethane	40	< 40	U
96-12-8	1,2-Dibromo-3-chloropropane	100	< 100	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	200	< 200	U
108-67-8	1,3,5-Trimethylbenzene	40	< 40	U
95-63-6	1,2,4-Trimethylbenzene	40	< 40	U
87-68-3	Hexachlorobutadiene	100	< 100	U
106-93-4	Ethylene Dibromide	40	< 40	U
74-97-5	Bromochloromethane	40	< 40	U
594-20-7	2,2-Dichloropropane	40	< 40	U
142-28-9	1,3-Dichloropropane	40	< 40	U
98-82-8	Isopropylbenzene	40	< 40	U
103-65-1	n-Propylbenzene	40	< 40	U
108-86-1	Bromobenzene	40	< 40	U
95-49-8	2-Chlorotoluene	40	< 40	U
106-43-4	4-Chlorotoluene	40	< 40	U
98-06-6	tert-Butylbenzene	40	< 40	U
135-98-8	sec-Butylbenzene	40	< 40	U
99-87-6	4-Isopropyltoluene	40	< 40	U
104-51-8	n-Butylbenzene	40	< 40	U
120-82-1	1,2,4-Trichlorobenzene	100	< 100	U
91-20-3	Naphthalene	100	< 100	U
87-61-6	1,2,3-Trichlorobenzene	100	< 100	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	99.8%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: GW-W-03-01
SAMPLE

Lab Sample ID: UH14C
LIMS ID: 12-2083
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/04/12 13:33

Sample Amount: 0.100 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	< 20	U
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	290	J
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	< 20	U
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	160	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	220	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	6,100	E
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	o-Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

**Sample ID: GW-W-03-01
SAMPLE**

Lab Sample ID: UH14C
LIMS ID: 12-2083
Matrix: Water
Date Analyzed: 02/04/12 13:33

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	100%
Bromofluorobenzene	99.9%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: GW-W-03-01
DILUTION

Lab Sample ID: UH14C
LIMS ID: 12-2083
Matrix: Water
Data Release Authorized: *B*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 13:35

Sample Amount: 0.0500 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	< 100	U
74-83-9	Bromomethane	200	< 200	U
75-01-4	Vinyl Chloride	40	< 40	U
75-00-3	Chloroethane	40	< 40	U
75-09-2	Methylene Chloride	200	< 200	U
67-64-1	Acetone	1,000	< 1,000	U
75-15-0	Carbon Disulfide	40	< 40	U
75-35-4	1,1-Dichloroethene	40	< 40	U
75-34-3	1,1-Dichloroethane	40	< 40	U
156-60-5	trans-1,2-Dichloroethene	40	< 40	U
156-59-2	cis-1,2-Dichloroethene	40	150	
67-66-3	Chloroform	40	< 40	U
107-06-2	1,2-Dichloroethane	40	< 40	U
78-93-3	2-Butanone	1,000	< 1,000	U
71-55-6	1,1,1-Trichloroethane	40	< 40	U
56-23-5	Carbon Tetrachloride	40	< 40	U
108-05-4	Vinyl Acetate	40	< 40	U
75-27-4	Bromodichloromethane	40	< 40	U
78-87-5	1,2-Dichloropropane	40	< 40	U
10061-01-5	cis-1,3-Dichloropropene	40	< 40	U
79-01-6	Trichloroethene	40	200	
124-48-1	Dibromochloromethane	40	< 40	U
79-00-5	1,1,2-Trichloroethane	40	< 40	U
71-43-2	Benzene	40	< 40	U
10061-02-6	trans-1,3-Dichloropropene	40	< 40	U
110-75-8	2-Chloroethylvinylether	200	< 200	U
75-25-2	Bromoform	40	< 40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	< 1,000	U
591-78-6	2-Hexanone	1,000	< 1,000	U
127-18-4	Tetrachloroethene	40	5,300	
79-34-5	1,1,2,2-Tetrachloroethane	40	< 40	U
108-88-3	Toluene	40	< 40	U
108-90-7	Chlorobenzene	40	< 40	U
100-41-4	Ethylbenzene	40	< 40	U
100-42-5	Styrene	40	< 40	U
75-69-4	Trichlorofluoromethane	40	< 40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	40	< 40	U
179601-23-1	m,p-Xylene	80	< 80	U
95-47-6	o-Xylene	40	< 40	U
95-50-1	1,2-Dichlorobenzene	40	< 40	U
541-73-1	1,3-Dichlorobenzene	40	< 40	U
106-46-7	1,4-Dichlorobenzene	40	< 40	U
107-02-8	Acrolein	1,000	< 1,000	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-03-01
DILUTION

Lab Sample ID: UH14C
LIMS ID: 12-2083
Matrix: Water
Date Analyzed: 02/06/12 13:35

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	< 200	U
74-96-4	Bromoethane	40	< 40	U
107-13-1	Acrylonitrile	200	< 200	U
563-58-6	1,1-Dichloropropene	40	< 40	U
74-95-3	Dibromomethane	40	< 40	U
630-20-6	1,1,2-Tetrachloroethane	40	< 40	U
96-12-8	1,2-Dibromo-3-chloropropane	100	< 100	U
96-18-4	1,2,3-Trichloropropane	100	< 100	U
110-57-6	trans-1,4-Dichloro-2-butene	200	< 200	U
108-67-8	1,3,5-Trimethylbenzene	40	< 40	U
95-63-6	1,2,4-Trimethylbenzene	40	< 40	U
87-68-3	Hexachlorobutadiene	100	< 100	U
106-93-4	Ethylene Dibromide	40	< 40	U
74-97-5	Bromochloromethane	40	< 40	U
594-20-7	2,2-Dichloropropane	40	< 40	U
142-28-9	1,3-Dichloropropane	40	< 40	U
98-82-8	Isopropylbenzene	40	< 40	U
103-65-1	n-Propylbenzene	40	< 40	U
108-86-1	Bromobenzene	40	< 40	U
95-49-8	2-Chlorotoluene	40	< 40	U
106-43-4	4-Chlorotoluene	40	< 40	U
98-06-6	tert-Butylbenzene	40	< 40	U
135-98-8	sec-Butylbenzene	40	< 40	U
99-87-6	4-Isopropyltoluene	40	< 40	U
104-51-8	n-Butylbenzene	40	< 40	U
120-82-1	1,2,4-Trichlorobenzene	100	< 100	U
91-20-3	Naphthalene	100	< 100	U
87-61-6	1,2,3-Trichlorobenzene	100	< 100	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	100%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: GW-W-01-01
SAMPLE

Lab Sample ID: UH14D
LIMS ID: 12-2084
Matrix: Water
Data Release Authorized: *B*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 14:54

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	0.5	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	0.1	J
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	11	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	3.9	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	46	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	0.1	J
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-01-01
SAMPLE

Lab Sample ID: UH14D
LIMS ID: 12-2084
Matrix: Water
Date Analyzed: 02/06/12 14:54

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	100%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	106%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2
**ANALYTICAL
RESOURCES
INCORPORATED**

Sample ID: GW-W-02-01
SAMPLELab Sample ID: UH14E
LIMS ID: 12-2085
Matrix: Water
Data Release Authorized: *J*
Reported: 02/06/12QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW SamplingDate Sampled: 02/03/12
Date Received: 02/03/12Instrument/Analyst: NT2/PKC
Date Analyzed: 02/04/12 14:31Sample Amount: 0.100 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RI	Result	Q
74-87-3	Chloromethane	50	< 50	U
74-83-9	Bromomethane	100	< 100	U
75-01-4	Vinyl Chloride	20	120	
75-00-3	Chloroethane	20	< 20	U
75-09-2	Methylene Chloride	100	< 100	U
67-64-1	Acetone	500	270	J
75-15-0	Carbon Disulfide	20	< 20	U
75-35-4	1,1-Dichloroethene	20	17	J
75-34-3	1,1-Dichloroethane	20	< 20	U
156-60-5	trans-1,2-Dichloroethene	20	< 20	U
156-59-2	cis-1,2-Dichloroethene	20	2,000	
67-66-3	Chloroform	20	< 20	U
107-06-2	1,2-Dichloroethane	20	< 20	U
78-93-3	2-Butanone	500	< 500	U
71-55-6	1,1,1-Trichloroethane	20	< 20	U
56-23-5	Carbon Tetrachloride	20	< 20	U
108-05-4	Vinyl Acetate	20	< 20	U
75-27-4	Bromodichloromethane	20	< 20	U
78-87-5	1,2-Dichloropropane	20	< 20	U
10061-01-5	cis-1,3-Dichloropropene	20	< 20	U
79-01-6	Trichloroethene	20	1,700	
124-48-1	Dibromochloromethane	20	< 20	U
79-00-5	1,1,2-Trichloroethane	20	< 20	U
71-43-2	Benzene	20	< 20	U
10061-02-6	trans-1,3-Dichloropropene	20	< 20	U
110-75-8	2-Chloroethylvinylether	100	< 100	U
75-25-2	Bromoform	20	< 20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500	< 500	U
591-78-6	2-Hexanone	500	< 500	U
127-18-4	Tetrachloroethene	20	8,600	E
79-34-5	1,1,2,2-Tetrachloroethane	20	< 20	U
108-88-3	Toluene	20	< 20	U
108-90-7	Chlorobenzene	20	< 20	U
100-41-4	Ethylbenzene	20	< 20	U
100-42-5	Styrene	20	< 20	U
75-69-4	Trichlorofluoromethane	20	< 20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	20	< 20	U
179601-23-1	m,p-Xylene	40	< 40	U
95-47-6	o-Xylene	20	< 20	U
95-50-1	1,2-Dichlorobenzene	20	< 20	U
541-73-1	1,3-Dichlorobenzene	20	< 20	U
106-46-7	1,4-Dichlorobenzene	20	< 20	U
107-02-8	Acrolein	500	< 500	U

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2Sample ID: GW-W-02-01
SAMPLEANALYTICAL
RESOURCES
INCORPORATEDLab Sample ID: UH14E
LIMS ID: 12-2085
Matrix: Water
Date Analyzed: 02/04/12 14:31QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	100	< 100	U
74-96-4	Bromoethane	20	< 20	U
107-13-1	Acrylonitrile	100	< 100	U
563-58-6	1,1-Dichloropropene	20	< 20	U
74-95-3	Dibromomethane	20	< 20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	< 20	U
96-12-8	1,2-Dibromo-3-chloropropane	50	< 50	U
96-18-4	1,2,3-Trichloropropane	50	< 50	U
110-57-6	trans-1,4-Dichloro-2-butene	100	< 100	U
108-67-8	1,3,5-Trimethylbenzene	20	< 20	U
95-63-6	1,2,4-Trimethylbenzene	20	< 20	U
87-68-3	Hexachlorobutadiene	50	< 50	U
106-93-4	Ethylene Dibromide	20	< 20	U
74-97-5	Bromochloromethane	20	< 20	U
594-20-7	2,2-Dichloropropane	20	< 20	U
142-28-9	1,3-Dichloropropane	20	< 20	U
98-82-8	Isopropylbenzene	20	< 20	U
103-65-1	n-Propylbenzene	20	< 20	U
108-86-1	Bromobenzene	20	< 20	U
95-49-8	2-Chlorotoluene	20	< 20	U
106-43-4	4-Chlorotoluene	20	< 20	U
98-06-6	tert-Butylbenzene	20	< 20	U
135-98-8	sec-Butylbenzene	20	< 20	U
99-87-6	4-Isopropyltoluene	20	< 20	U
104-51-8	n-Butylbenzene	20	< 20	U
120-82-1	1,2,4-Trichlorobenzene	50	< 50	U
91-20-3	Naphthalene	50	< 50	U
87-61-6	1,2,3-Trichlorobenzene	50	< 50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.5%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	102%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2ANALYTICAL
RESOURCES
INCORPORATEDSample ID: GW-W-02-01
DILUTIONLab Sample ID: UH14E
LIMS ID: 12-2085
Matrix: Water
Data Release Authorized: *R*
Reported: 02/06/12QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW SamplingDate Sampled: 02/03/12
Date Received: 02/03/12Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 14:28Sample Amount: 0.0200 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	250	< 250	U
74-83-9	Bromomethane	500	< 500	U
75-01-4	Vinyl Chloride	100	100	
75-00-3	Chloroethane	100	< 100	U
75-09-2	Methylene Chloride	500	< 500	U
67-64-1	Acetone	2,500	< 2,500	U
75-15-0	Carbon Disulfide	100	< 100	U
75-35-4	1,1-Dichloroethene	100	< 100	U
75-34-3	1,1-Dichloroethane	100	< 100	U
156-60-5	trans-1,2-Dichloroethene	100	< 100	U
156-59-2	cis-1,2-Dichloroethene	100	1,600	
67-66-3	Chloroform	100	< 100	U
107-06-2	1,2-Dichloroethane	100	< 100	U
78-93-3	2-Butanone	2,500	< 2,500	U
71-55-6	1,1,1-Trichloroethane	100	< 100	U
56-23-5	Carbon Tetrachloride	100	< 100	U
108-05-4	Vinyl Acetate	100	< 100	U
75-27-4	Bromodichloromethane	100	< 100	U
78-87-5	1,2-Dichloropropane	100	< 100	U
10061-01-5	cis-1,3-Dichloropropene	100	< 100	U
79-01-6	Trichloroethene	100	1,300	
124-48-1	Dibromochloromethane	100	< 100	U
79-00-5	1,1,2-Trichloroethane	100	< 100	U
71-43-2	Benzene	100	< 100	U
10061-02-6	trans-1,3-Dichloropropene	100	< 100	U
110-75-8	2-Chloroethylvinylether	500	< 500	U
75-25-2	Bromoform	100	< 100	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2,500	< 2,500	U
591-78-6	2-Hexanone	2,500	< 2,500	U
127-18-4	Tetrachloroethene	100	6,900	
79-34-5	1,1,2,2-Tetrachloroethane	100	< 100	U
108-88-3	Toluene	100	< 100	U
108-90-7	Chlorobenzene	100	< 100	U
100-41-4	Ethylbenzene	100	< 100	U
100-42-5	Styrene	100	< 100	U
75-69-4	Trichlorofluoromethane	100	< 100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	100	< 100	U
179601-23-1	m,p-Xylene	200	< 200	U
95-47-6	o-Xylene	100	< 100	U
95-50-1	1,2-Dichlorobenzene	100	< 100	U
541-73-1	1,3-Dichlorobenzene	100	< 100	U
106-46-7	1,4-Dichlorobenzene	100	< 100	U
107-02-8	Acrolein	2,500	< 2,500	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-02-01
DILUTION

Lab Sample ID: UH14E
LIMS ID: 12-2085
Matrix: Water
Date Analyzed: 02/06/12 14:28

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	500	< 500	U
74-96-4	Bromoethane	100	< 100	U
107-13-1	Acrylonitrile	500	< 500	U
563-58-6	1,1-Dichloropropene	100	< 100	U
74-95-3	Dibromomethane	100	< 100	U
630-20-6	1,1,1,2-Tetrachloroethane	100	< 100	U
96-12-8	1,2-Dibromo-3-chloropropane	250	< 250	U
96-18-4	1,2,3-Trichloropropane	250	< 250	U
110-57-6	trans-1,4-Dichloro-2-butene	500	< 500	U
108-67-8	1,3,5-Trimethylbenzene	100	< 100	U
95-63-6	1,2,4-Trimethylbenzene	100	< 100	U
87-68-3	Hexachlorobutadiene	250	< 250	U
106-93-4	Ethylene Dibromide	100	< 100	U
74-97-5	Bromochloromethane	100	< 100	U
594-20-7	2,2-Dichloropropane	100	< 100	U
142-28-9	1,3-Dichloropropane	100	< 100	U
98-82-8	Isopropylbenzene	100	< 100	U
103-65-1	n-Propylbenzene	100	< 100	U
108-86-1	Bromobenzene	100	< 100	U
95-49-8	2-Chlorotoluene	100	< 100	U
106-43-4	4-Chlorotoluene	100	< 100	U
98-06-6	tert-Butylbenzene	100	< 100	U
135-98-8	sec-Butylbenzene	100	< 100	U
99-87-6	4-Isopropyltoluene	100	< 100	U
104-51-8	n-Butylbenzene	100	< 100	U
120-82-1	1,2,4-Trichlorobenzene	250	< 250	U
91-20-3	Naphthalene	250	< 250	U
87-61-6	1,2,3-Trichlorobenzene	250	< 250	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	101%
Bromoform	104%
d4-1,2-Dichlorobenzene	105%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UH14F
LIMS ID: 12-2086
Matrix: Water
Data Release Authorized: *AB*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 15:21

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	c-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: UH14F
LIMS ID: 12-2086
Matrix: Water
Date Analyzed: 02/06/12 15:21

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in $\mu\text{g/L}$ (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	100%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020412	Method Blank	10	103%	98.5%	99.5%	102%	0
LCS-020412	Lab Control	10	100%	101%	100%	102%	0
LCSD-020412	Lab Control Dup	10	100%	101%	102%	103%	0
UH14A	GW-W-04-01	10	106%	99.1%	97.1%	103%	0
UH14ADL	GW-W-04-01	10	100%	99.5%	102%	103%	0
UH14AMS	GW-W-04-01	10	102%	101%	97.8%	101%	0
UH14AMSD	GW-W-04-01	10	103%	100%	98.4%	98.5%	0
UH14B	GW-W-04-02	10	105%	100%	96.0%	102%	0
UH14BDL	GW-W-04-02	10	101%	99.8%	101%	102%	0
UH14C	GW-W-03-01	10	105%	100%	99.9%	101%	0
UH14CDL	GW-W-03-01	10	101%	100%	101%	102%	0
MB-020612	Method Blank	10	102%	98.2%	99.0%	102%	0
LCS-020612	Lab Control	10	102%	101%	98.2%	101%	0
LCSD-020612	Lab Control Dup	10	104%	101%	100%	101%	0
UH14D	GW-W-01-01	10	101%	100%	103%	106%	0
UH14E	GW-W-02-01	10	100%	98.5%	97.8%	102%	0
UH14EDL	GW-W-02-01	10	105%	101%	104%	105%	0
UH14F	Trip Blank	10	102%	100%	103%	103%	0

LCS/MB LIMITS

SW8260C
(DCE) = d4-1,2-Dichloroethane
(TOL) = d8-Toluene
(BFB) = Bromofluorobenzene
(DCB) = d4-1,2-Dichlorobenzene

QC LIMITS

80-120	80-120
80-120	80-120
80-120	80-120
80-120	80-120

Prep Method: SW5030B
Log Number Range: 12-2081 to 12-2086

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: GW-W-04-01
MATRIX SPIKE

Lab Sample ID: UH14A
LIMS ID: 12-2081
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst MS: NT2/PKC
MSD: NT2/PKC
Date Analyzed MS: 02/06/12 12:15
MSD: 02/06/12 12:42

Sample Amount MS: 0.050 mL
MSD: 0.050 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	MSD RPD
Chloromethane	< 50.0 U	1840	2000	92.0%	1850	2000	92.5%	0.5%
Bromomethane	< 100 U	1790	2000	89.5%	1740	2000	87.0%	2.8%
Vinyl Chloride	< 20.0 U	1800	2000	90.0%	1800	2000	90.0%	0.0%
Chloroethane	< 20.0 U	1820	2000	91.0%	1800	2000	90.0%	1.1%
Methylene Chloride	< 100 U	1770	2000	88.5%	1780	2000	89.0%	0.6%
Acetone	308 J	8930	10000	86.2%	9260	10000	89.5%	3.6%
Carbon Disulfide	< 20.0 U	1850	2000	92.5%	1840	2000	92.0%	0.5%
1,1-Dichloroethene	< 20.0 U	1810	2000	90.5%	1810	2000	90.5%	0.0%
1,1-Dichloroethane	< 20.0 U	1910	2000	95.5%	1940	2000	97.0%	1.6%
trans-1,2-Dichloroethene	< 20.0 U	1800	2000	90.0%	1830	2000	91.5%	1.7%
cis-1,2-Dichloroethene	54.0	1940	2000	94.3%	1950	2000	94.8%	0.5%
Chloroform	< 20.0 U	1950	2000	97.5%	1960	2000	98.0%	0.5%
1,2-Dichloroethane	< 20.0 U	2000	2000	100%	2030	2000	102%	1.5%
2-Butanone	< 500 U	10200	10000	102%	10800	10000	108%	5.7%
1,1,1-Trichloroethane	< 20.0 U	1890	2000	94.5%	1910	2000	95.5%	1.1%
Carbon Tetrachloride	< 20.0 U	1860	2000	93.0%	1860	2000	93.0%	0.0%
Vinyl Acetate	< 20.0 U	2030	2000	102%	2180	2000	109%	7.1%
Bromodichloromethane	< 20.0 U	2070	2000	104%	2100	2000	105%	1.4%
1,2-Dichloropropane	< 20.0 U	1970	2000	98.5%	2000	2000	100%	1.5%
cis-1,3-Dichloropropene	< 20.0 U	2130	2000	106%	2230	2000	112%	4.6%
Trichloroethene	159	2090	2000	96.6%	2110	2000	97.6%	1.0%
Dibromochloromethane	< 20.0 U	2140	2000	107%	2210	2000	110%	3.2%
1,1,2-Trichloroethane	< 20.0 U	2040	2000	102%	2060	2000	103%	1.0%
Benzene	< 20.0 U	1950	2000	97.5%	1950	2000	97.5%	0.0%
trans-1,3-Dichloropropene	< 20.0 U	2190	2000	110%	2270	2000	114%	3.6%
2-Chloroethylvinylether	< 100 U	1980	2000	99.0%	2210	2000	110%	11.0%
Bromoform	< 20.0 U	2430 Q	2000	122%	2540 Q	2000	127%	4.4%
4-Methyl-2-Pentanone (MIBK)	< 500 U	10200	10000	102%	10500	10000	105%	2.9%
2-Hexanone	< 500 U	10400	10000	104%	10700	10000	107%	2.8%
Tetrachloroethene	6470 E	6890	2000	21.0%	6930	2000	23.0%	0.6%
1,1,2,2-Tetrachloroethane	< 20.0 U	2020	2000	101%	2100	2000	105%	3.9%
Toluene	< 20.0 U	1960	2000	98.0%	2020	2000	101%	3.0%
Chlorobenzene	< 20.0 U	1970	2000	98.5%	1990	2000	99.5%	1.0%
Ethylbenzene	< 20.0 U	1960	2000	98.0%	1990	2000	99.5%	1.5%
Styrene	< 20.0 U	2050	2000	102%	2140	2000	107%	4.3%
Trichlorofluoromethane	< 20.0 U	1890	2000	94.5%	1850	2000	92.5%	2.1%
1,1,2-Trichloro-1,2,2-trifl	< 20.0 U	1790	2000	89.5%	1770	2000	88.5%	1.1%
m,p-Xylene	< 40.0 U	4000	4000	100%	4020	4000	100%	0.5%
O-Xylene	< 20.0 U	1980	2000	99.0%	1960	2000	98.0%	1.0%
1,2-Dichlorobenzene	< 20.0 U	1900	2000	95.0%	1950	2000	97.5%	2.6%
1,3-Dichlorobenzene	< 20.0 U	1940	2000	97.0%	1980	2000	99.0%	2.0%
1,4-Dichlorobenzene	< 20.0 U	1900	2000	95.0%	1950	2000	97.5%	2.6%
Acrolein	< 500 U	9390	10000	93.9%	9700	10000	97.0%	3.2%
Methyl Iodide	< 100 U	1830	2000	91.5%	1820	2000	91.0%	0.5%
Bromoethane	< 20.0 U	1860	2000	93.0%	1840	2000	92.0%	1.1%
Acrylonitrile	< 100 U	1870	2000	93.5%	1930	2000	96.5%	3.2%
1,1-Dichloropropene	< 20.0 U	1930	2000	96.5%	1940	2000	97.0%	0.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: GW-W-04-01
MATRIX SPIKE

Lab Sample ID: UH14A
LIMS ID: 12-2081
Matrix: Water

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Dibromomethane	< 20.0 U	1960	2000	98.0%	1990	2000	99.5%	1.5%
1,1,1,2-Tetrachloroethane	< 20.0 U	2010	2000	100%	2000	2000	100%	0.5%
1,2-Dibromo-3-chloropropane	< 50.0 U	2020	2000	101%	2100	2000	105%	3.9%
1,2,3-Trichloropropene	< 50.0 U	1950	2000	97.5%	2040	2000	102%	4.5%
trans-1,4-Dichloro-2-butene	< 100 U	2090	2000	104%	2260	2000	113%	7.8%
1,3,5-Trimethylbenzene	< 20.0 U	2080	2000	104%	2130	2000	106%	2.4%
1,2,4-Trimethylbenzene	< 20.0 U	2060	2000	103%	2120	2000	106%	2.9%
Hexachlorobutadiene	< 50.0 U	1940 B	2000	97.0%	2010 B	2000	100%	3.5%
Ethylene Dibromide	< 20.0 U	2030	2000	102%	2100	2000	105%	3.4%
Bromoacetonemethane	< 20.0 U	1930	2000	96.5%	1950	2000	97.5%	1.0%
2,2-Dichloropropane	< 20.0 U	1790	2000	89.5%	1800	2000	90.0%	0.6%
1,3-Dichloropropane	< 20.0 U	2020	2000	101%	2110	2000	106%	4.4%
Isopropylbenzene	< 20.0 U	2050	2000	102%	2110	2000	106%	2.9%
n-Propylbenzene	< 20.0 U	2050	2000	102%	2100	2000	105%	2.4%
Bromobenzene	< 20.0 U	1950	2000	97.5%	2010	2000	100%	3.0%
2-Chlorotoluene	< 20.0 U	2020	2000	101%	2040	2000	102%	1.0%
4-Chlorotoluene	< 20.0 U	2010	2000	100%	2080	2000	104%	3.4%
tert-Butylbenzene	< 20.0 U	2080	2000	104%	2110	2000	106%	1.4%
sec-Butylbenzene	< 20.0 U	2060	2000	103%	2110	2000	106%	2.4%
4-Isopropyltoluene	< 20.0 U	2070	2000	104%	2100	2000	105%	1.4%
n-Butylbenzene	< 20.0 U	2040	2000	102%	2070	2000	104%	1.5%
1,2,4-Trichlorobenzene	< 50.0 U	1950 B	2000	97.5%	2000 B	2000	100%	2.5%
Naphthalene	< 50.0 U	2060 B	2000	103%	2150 B	2000	108%	4.3%
1,2,3-Trichlorobenzene	< 50.0 U	2030 B	2000	102%	2120 B	2000	106%	4.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: GW-W-04-01
MATRIX SPIKE

Lab Sample ID: UH14A
LIMS ID: 12-2081
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: 02/02/12
Date Received: 02/03/12

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 12:15

Sample Amount: 0.0500 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	100	---	
74-83-9	Bromomethane	200	---	
75-01-4	Vinyl Chloride	40	---	
75-00-3	Chloroethane	40	---	
75-09-2	Methylene Chloride	200	---	
67-64-1	Acetone	1,000	---	
75-15-0	Carbon Disulfide	40	---	
75-35-4	1,1-Dichloroethene	40	---	
75-34-3	1,1-Dichloroethane	40	---	
156-60-5	trans-1,2-Dichloroethene	40	---	
156-59-2	cis-1,2-Dichloroethene	40	---	
67-66-3	Chloroform	40	---	
107-06-2	1,2-Dichloroethane	40	---	
78-93-3	2-Butanone	1,000	---	
71-55-6	1,1,1-Trichloroethane	40	---	
56-23-5	Carbon Tetrachloride	40	---	
108-05-4	Vinyl Acetate	40	---	
75-27-4	Bromodichloromethane	40	---	
78-87-5	1,2-Dichloropropane	40	---	
10061-01-5	cis-1,3-Dichloropropene	40	---	
79-01-6	Trichloroethene	40	---	
124-48-1	Dibromochloromethane	40	---	
79-00-5	1,1,2-Trichloroethane	40	---	
71-43-2	Benzene	40	---	
10061-02-6	trans-1,3-Dichloropropene	40	---	
110-75-8	2-Chloroethylvinylether	200	---	
75-25-2	Bromoform	40	---	
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	---	
591-78-6	2-Hexanone	1,000	---	
127-18-4	Tetrachloroethene	40	---	
79-34-5	1,1,2,2-Tetrachloroethane	40	---	
108-88-3	Toluene	40	---	
108-90-7	Chlorobenzene	40	---	
100-41-4	Ethylbenzene	40	---	
100-42-5	Styrene	40	---	
75-69-4	Trichlorofluoromethane	40	---	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	40	---	
179601-23-1	m,p-Xylene	80	---	
95-47-6	o-Xylene	40	---	
95-50-1	1,2-Dichlorobenzene	40	---	
541-73-1	1,3-Dichlorobenzene	40	---	
106-46-7	1,4-Dichlorobenzene	40	---	
107-02-8	Acrolein	1,000	---	

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: GW-W-04-01

MATRIX SPIKE

Lab Sample ID: UH14A

QC Report No: UH14-Windward Environmental, LLC

LIMS ID: 12-2081

Project: American Linen GW Sampling

Matrix: Water

Date Analyzed: 02/06/12 12:15

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	---	
74-96-4	Bromoethane	40	---	
107-13-1	Acrylonitrile	200	---	
563-58-6	1,1-Dichloropropene	40	---	
74-95-3	Dibromomethane	40	---	
630-20-6	1,1,1,2-Tetrachloroethane	40	---	
96-12-8	1,2-Dibromo-3-chloropropane	100	---	
96-18-4	1,2,3-Trichloropropane	100	---	
110-57-6	trans-1,4-Dichloro-2-butene	200	---	
108-67-8	1,3,5-Trimethylbenzene	40	---	
95-63-6	1,2,4-Trimethylbenzene	40	---	
87-68-3	Hexachlorobutadiene	100	---	
106-93-4	Ethylene Dibromide	40	---	
74-97-5	Bromochloromethane	40	---	
594-20-7	2,2-Dichloropropane	40	---	
142-28-9	1,3-Dichloropropane	40	---	
98-82-8	Isopropylbenzene	40	---	
103-65-1	n-Propylbenzene	40	---	
108-86-1	Bromobenzene	40	---	
95-49-8	2-Chlorotoluene	40	---	
106-43-4	4-Chlorotoluene	40	---	
98-06-6	tert-Butylbenzene	40	---	
135-98-8	sec-Butylbenzene	40	---	
99-87-6	4-Isopropyltoluene	40	---	
104-51-8	n-Butylbenzene	40	---	
120-82-1	1,2,4-Trichlorobenzene	100	---	
91-20-3	Naphthalene	100	---	
87-61-6	1,2,3-Trichlorobenzene	100	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	101%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

Sample ID: GW-W-04-01

MATRIX SPIKE DUP

Lab Sample ID: UH14A

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

LIMS ID: 12-2081

Matrix: Water

Data Release Authorized: *B*

Date Sampled: 02/02/12

Date Received: 02/03/12

Reported: 02/06/12

Instrument/Analyst: NT2/PKC

Sample Amount: 0.0500 mL

Date Analyzed: 02/06/12 12:42

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result Q
74-87-3	Chloromethane	100	---
74-83-9	Bromomethane	200	---
75-01-4	Vinyl Chloride	40	---
75-00-3	Chloroethane	40	---
75-09-2	Methylene Chloride	200	---
67-64-1	Acetone	1,000	---
75-15-0	Carbon Disulfide	40	---
75-35-4	1,1-Dichloroethene	40	---
75-34-3	1,1-Dichloroethane	40	---
156-60-5	trans-1,2-Dichloroethene	40	---
156-59-2	cis-1,2-Dichloroethene	40	---
67-66-3	Chloroform	40	---
107-06-2	1,2-Dichloroethane	40	---
78-93-3	2-Butanone	1,000	---
71-55-6	1,1,1-Trichloroethane	40	---
56-23-5	Carbon Tetrachloride	40	---
108-05-4	Vinyl Acetate	40	---
75-27-4	Bromodichloromethane	40	---
78-87-5	1,2-Dichloropropane	40	---
10061-01-5	cis-1,3-Dichloropropene	40	---
79-01-6	Trichloroethene	40	---
124-48-1	Dibromochloromethane	40	---
79-00-5	1,1,2-Trichloroethane	40	---
71-43-2	Benzene	40	---
10061-02-6	trans-1,3-Dichloropropene	40	---
110-75-8	2-Chloroethylvinylether	200	---
75-25-2	Bromoform	40	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1,000	---
591-78-6	2-Hexanone	1,000	---
127-18-4	Tetrachloroethene	40	---
79-34-5	1,1,2,2-Tetrachloroethane	40	---
108-88-3	Toluene	40	---
108-90-7	Chlorobenzene	40	---
100-41-4	Ethylbenzene	40	---
100-42-5	Styrene	40	---
75-69-4	Trichlorofluoromethane	40	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	40	---
179601-23-1	m,p-Xylene	80	---
95-47-6	o-Xylene	40	---
95-50-1	1,2-Dichlorobenzene	40	---
541-73-1	1,3-Dichlorobenzene	40	---
106-46-7	1,4-Dichlorobenzene	40	---
107-02-8	Acrolein	1,000	---

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Page 2 of 2

Sample ID: GW-W-04-01

MATRIX SPIKE DUP

Lab Sample ID: UH14A

QC Report No: UH14-Windward Environmental, LLC

LIMS ID: 12-2081

Project: American Linen GW Sampling

Matrix: Water

Date Analyzed: 02/06/12 12:42

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	200	---	
74-96-4	Bromoethane	40	---	
107-13-1	Acrylonitrile	200	---	
563-58-6	1,1-Dichloropropene	40	---	
74-95-3	Dibromomethane	40	---	
630-20-6	1,1,2-Tetrachloroethane	40	---	
96-12-8	1,2-Dibromo-3-chloropropane	100	---	
96-18-4	1,2,3-Trichloropropane	100	---	
110-57-6	trans-1,4-Dichloro-2-butene	200	---	
108-67-8	1,3,5-Trimethylbenzene	40	---	
95-63-6	1,2,4-Trimethylbenzene	40	---	
87-68-3	Hexachlorobutadiene	100	---	
106-93-4	Ethylene Dibromide	40	---	
74-97-5	Bromochloromethane	40	---	
594-20-7	2,2-Dichloropropane	40	---	
142-28-9	1,3-Dichloropropane	40	---	
98-82-8	Isopropylbenzene	40	---	
103-65-1	n-Propylbenzene	40	---	
108-86-1	Bromobenzene	40	---	
95-49-8	2-Chlorotoluene	40	---	
106-43-4	4-Chlorotoluene	40	---	
98-06-6	tert-Butylbenzene	40	---	
135-98-8	sec-Butylbenzene	40	---	
99-87-6	4-Isopropyltoluene	40	---	
104-51-8	n-Butylbenzene	40	---	
120-82-1	1,2,4-Trichlorobenzene	100	---	
91-20-3	Naphthalene	100	---	
87-61-6	1,2,3-Trichlorobenzene	100	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	100%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	98.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: LCS-020412

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020412

LIMS ID: 12-2081

Matrix: Water

Data Release Authorized:

Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT2/PKC

LCSD: NT2/PKC

Date Analyzed LCS: 02/04/12 03:44

LCSD: 02/04/12 04:10

Sample Amount LCS: 10.0 mL

LCSD: 10.0 mL

Purge Volume LCS: 10.0 mL

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	10.1	10.0	101%	11.3	10.0	113%	11.2%
Bromomethane	10.0	10.0	100%	11.1	10.0	111%	10.4%
Vinyl Chloride	10.0	10.0	100%	11.1	10.0	111%	10.4%
Chloroethane	10.4	10.0	104%	11.2	10.0	112%	7.4%
Methylene Chloride	9.4	10.0	94.0%	10.7	10.0	107%	12.9%
Acetone	46.0	50.0	92.0%	51.9	50.0	104%	12.1%
Carbon Disulfide	9.8	10.0	98.0%	11.0	10.0	110%	11.5%
1,1-Dichloroethene	9.4	10.0	94.0%	10.7	10.0	107%	12.9%
1,1-Dichloroethane	10.0	10.0	100%	11.0	10.0	110%	9.5%
trans-1,2-Dichloroethene	9.8	10.0	98.0%	10.8	10.0	108%	9.7%
cis-1,2-Dichloroethene	10.0	10.0	100%	10.9	10.0	109%	8.6%
Chloroform	10.0	10.0	100%	10.8	10.0	108%	7.7%
1,2-Dichloroethane	10.1	10.0	101%	10.5	10.0	105%	3.9%
2-Butanone	49.1	50.0	98.2%	48.1	50.0	96.2%	2.1%
1,1,1-Trichloroethane	10.0	10.0	100%	11.1	10.0	111%	10.4%
Carbon Tetrachloride	9.6	10.0	96.0%	11.3	10.0	113%	16.3%
Vinyl Acetate	9.8	10.0	98.0%	9.6	10.0	96.0%	2.1%
Bromodichloromethane	10.3	10.0	103%	10.6	10.0	106%	2.9%
1,2-Dichloropropane	10.1	10.0	101%	10.3	10.0	103%	2.0%
cis-1,3-Dichloropropene	10.2	10.0	102%	10.0	10.0	100%	2.0%
Trichloroethene	9.8	10.0	98.0%	10.2	10.0	102%	4.0%
Dibromochloromethane	10.5	10.0	105%	10.5	10.0	105%	0.0%
1,1,2-Trichloroethane	10.0	10.0	100%	10.3	10.0	103%	3.0%
Benzene	10.1	10.0	101%	10.7	10.0	107%	5.8%
trans-1,3-Dichloropropene	10.5	10.0	105%	10.0	10.0	100%	4.9%
2-Chloroethylvinylether	9.4	10.0	94.0%	8.9	10.0	89.0%	5.5%
Bromoform	11.1	10.0	111%	10.9	10.0	109%	1.8%
4-Methyl-2-Pentanone (MIBK)	52.0	50.0	104%	54.6	50.0	109%	4.9%
2-Hexanone	52.6	50.0	105%	51.7	50.0	103%	1.7%
Tetrachloroethene	9.4	10.0	94.0%	9.7	10.0	97.0%	3.1%
1,1,2,2-Tetrachloroethane	10.1	10.0	101%	10.3	10.0	103%	2.0%
Toluene	10.1	10.0	101%	10.2	10.0	102%	1.0%
Chlorobenzene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Ethylbenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
Styrene	10.6	10.0	106%	10.8	10.0	108%	1.9%
Trichlorofluoromethane	10.1	10.0	101%	11.1	10.0	111%	9.4%
1,1,2-Trichloro-1,2,2-trifluoroethane	9.1	10.0	91.0%	10.3	10.0	103%	12.4%
m,p-Xylene	20.3	20.0	102%	21.1	20.0	106%	3.9%
o-Xylene	10.3	10.0	103%	11.0	10.0	110%	6.6%
1,2-Dichlorobenzene	9.8	10.0	98.0%	10.2	10.0	102%	4.0%
1,3-Dichlorobenzene	9.7	10.0	97.0%	9.9	10.0	99.0%	2.0%
1,4-Dichlorobenzene	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
Acrolein	48.8	50.0	97.6%	53.0	50.0	106%	8.3%
Methyl Iodide	9.8	10.0	98.0%	11.2	10.0	112%	13.3%
Bromoethane	9.7	10.0	97.0%	10.9	10.0	109%	11.7%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020412

LAB CONTROL SAMPLE

**ANALYTICAL
RESOURCES
INCORPORATED**

Lab Sample ID: LCS-020412
DIMS ID: 12-2081
Matrix: WaterQC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Analyte	LCS	Spike	LCS	Spike	LCS	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
Acrylonitrile	9.6	10.0	96.0%	10.8	10.0	108%
1,1-Dichloropropene	9.6	10.0	96.0%	10.5	10.0	105%
Dibromomethane	9.9	10.0	99.0%	10.3	10.0	103%
1,1,1,2-Tetrachloroethane	10.3	10.0	103%	11.3	10.0	113%
1,2-Dibromo-3-chloropropane	9.9	10.0	99.0%	10.8	10.0	108%
1,2,3-Trichloropropane	10.2	10.0	102%	9.9	10.0	99.0%
trans-1,4-Dichloro-2-butene	8.7	10.0	87.0%	8.5	10.0	85.0%
1,3,5-Trimethylbenzene	10.5	10.0	105%	10.7	10.0	107%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.6	10.0	106%
Hexachlorobutadiene	9.2 B	10.0	92.0%	9.9 B	10.0	99.0%
Ethylene Dibromide	10.3	10.0	103%	10.1	10.0	101%
Bromochloromethane	10.2	10.0	102%	10.8	10.0	108%
2,2-Dichloropropane	8.3	10.0	83.0%	9.4	10.0	94.0%
1,3-Dichloropropane	10.2	10.0	102%	9.8	10.0	98.0%
Isopropylbenzene	10.4	10.0	104%	10.5	10.0	105%
n-Propylbenzene	10.1	10.0	101%	10.0	10.0	100%
Bromobenzene	9.9	10.0	99.0%	9.7	10.0	97.0%
2-Chlorotoluene	10.1	10.0	101%	10.2	10.0	102%
4-Chlorotoluene	10.1	10.0	101%	9.8	10.0	98.0%
tert-Butylbenzene	10.4	10.0	104%	10.5	10.0	105%
sec-Butylbenzene	10.2	10.0	102%	10.5	10.0	105%
4-Isopropyltoluene	10.2	10.0	102%	10.6	10.0	106%
n-Butylbenzene	9.7	10.0	97.0%	10.0	10.0	100%
1,2,4-Trichlorobenzene	9.9	10.0	99.0%	10.5	10.0	105%
Naphthalene	10.8 B	10.0	108%	11.8 B	10.0	118%
1,2,3-Trichlorobenzene	10.4 B	10.0	104%	11.4 B	10.0	114%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	100%	100%
d8-Toluene	101%	101%
Bromofluorobenzene	100%	102%
d4-1,2-Dichlorobenzene	102%	103%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C

Page 1 of 2

**ANALYTICAL
RESOURCES
INCORPORATED**


Sample ID: LCS-020612

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020612

LIMS ID: 12-2084

Matrix: Water

Data Release Authorized:

Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC

Project: American Linen GW Sampling

Date Sampled: NA

Date Received: NA

Instrument/Analyst LCS: NT2/PKC

LCSD: NT2/PKC

Date Analyzed LCS: 02/06/12 09:57

LCSD: 02/06/12 10:24

Sample Amount LCS: 10.0 mL

LCSD: 10.0 mL

Purge Volume LCS: 10.0 mL

LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chlormethane	9.7	10.0	97.0%	10.1	10.0	101%	4.0%
Bromomethane	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
Vinyl Chloride	9.6	10.0	96.0%	9.9	10.0	99.0%	3.1%
Chloroethane	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
Methylene Chloride	9.3	10.0	93.0%	9.6	10.0	96.0%	3.2%
Acetone	46.9	50.0	93.8%	49.6	50.0	99.2%	5.6%
Carbon Disulfide	9.8	10.0	98.0%	10.2	10.0	102%	4.0%
1,1-Dichloroethene	9.4	10.0	94.0%	9.6	10.0	96.0%	2.1%
1,1-Dichloroethane	9.8	10.0	98.0%	10.1	10.0	101%	3.0%
trans-1,2-Dichloroethene	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
cis-1,2-Dichloroethene	9.8	10.0	98.0%	10.1	10.0	101%	3.0%
Chloroform	10.1	10.0	101%	10.2	10.0	102%	1.0%
1,2-Dichloroethane	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
2-Butanone	51.8	50.0	104%	52.8	50.0	106%	1.9%
1,1,1-Trichloroethane	10.0	10.0	100%	10.1	10.0	101%	1.0%
Carbon Tetrachloride	10.0	10.0	100%	10.2	10.0	102%	2.0%
Vinyl Acetate	10.3	10.0	103%	10.3	10.0	103%	0.0%
Bromodichloromethane	10.5	10.0	105%	10.4	10.0	104%	1.0%
1,2-Dichloropropane	9.8	10.0	98.0%	10.0	10.0	100%	2.0%
cis-1,3-Dichloropropene	10.9	10.0	109%	10.9	10.0	109%	0.0%
Trichloroethene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
Dibromochloromethane	11.0	10.0	110%	10.8	10.0	108%	1.8%
1,1,2-Trichloroethane	10.1	10.0	101%	10.2	10.0	102%	1.0%
Benzene	9.8	10.0	98.0%	9.9	10.0	99.0%	1.0%
trans-1,3-Dichloropropene	11.2	10.0	112%	11.0	10.0	110%	1.8%
2-Chloroethylvinylether	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
Bromoform	12.6 Q	10.0	126%	12.2 Q	10.0	122%	3.2%
4-Methyl-2-Pentanone (MIBK)	52.4	50.0	105%	53.1	50.0	106%	1.3%
2-Hexanone	52.0	50.0	104%	53.0	50.0	106%	1.9%
Tetrachloroethene	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
1,1,2,2-Tetrachloroethane	10.2	10.0	102%	10.1	10.0	101%	1.0%
Toluene	10.0	10.0	100%	10.0	10.0	100%	0.0%
Chlorobenzene	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
Ethylbenzene	10.1	10.0	101%	9.9	10.0	99.0%	2.0%
Styrene	10.6	10.0	106%	10.3	10.0	103%	2.9%
Trichlorofluoromethane	10.2	10.0	102%	10.3	10.0	103%	1.0%
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	10.0	99.0%	10.1	10.0	101%	2.0%
m,p-Xylene	20.3	20.0	102%	20.4	20.0	102%	0.5%
o-Xylene	10.0	10.0	100%	10.2	10.0	102%	2.0%
1,2-Dichlorobenzene	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
1,3-Dichlorobenzene	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
1,4-Dichlorobenzene	9.7	10.0	97.0%	9.6	10.0	96.0%	1.0%
Acrolein	50.6	50.0	101%	51.8	50.0	104%	2.3%
Methyl Iodide	9.7	10.0	97.0%	10.0	10.0	100%	3.0%
Bromoethane	9.6	10.0	96.0%	10.0	10.0	100%	4.1%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: LCS-020612

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020612
LIMS ID: 12-2084
Matrix: WaterQC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Analyte	LCS	Spike	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery	LCSD	Added-LCSD	
Acrylonitrile	9.7	10.0	97.0%	10.3	10.0	103%
1,1-Dichloropropene	9.9	10.0	99.0%	9.8	10.0	98.0%
Dibromomethane	10.0	10.0	100%	10.2	10.0	102%
1,1,1,2-Tetrachloroethane	10.4	10.0	104%	10.6	10.0	106%
1,2-Dibromo-3-chloropropane	10.2	10.0	102%	10.5	10.0	105%
1,2,3-Trichloropropane	9.8	10.0	98.0%	9.8	10.0	98.0%
trans-1,4-Dichloro-2-butene	11.0	10.0	110%	10.5	10.0	105%
1,3,5-Trimethylbenzene	10.6	10.0	106%	10.5	10.0	105%
1,2,4-Trimethylbenzene	10.6	10.0	106%	10.5	10.0	105%
Hexachlorobutadiene	10.5 B	10.0	105%	10.3 B	10.0	103%
Ethylene Dibromide	10.1	10.0	101%	10.3	10.0	103%
Bromochlormethane	10.0	10.0	100%	10.2	10.0	102%
2,2-Dichloropropane	10.0	10.0	100%	10.3	10.0	103%
1,3-Dichloropropane	10.0	10.0	100%	10.1	10.0	101%
Isopropylbenzene	10.4	10.0	104%	10.3	10.0	103%
n-Propylbenzene	10.4	10.0	104%	10.3	10.0	103%
Bromobenzene	9.8	10.0	98.0%	9.7	10.0	97.0%
2-Chlorotoluene	10.1	10.0	101%	10.0	10.0	100%
4-Chlorotoluene	10.2	10.0	102%	10.0	10.0	100%
tert-Butylbenzene	10.6	10.0	106%	10.4	10.0	104%
sec-Butylbenzene	10.5	10.0	105%	10.5	10.0	105%
4-Isopropyltoluene	10.7	10.0	107%	10.6	10.0	106%
n-Butylbenzene	10.6	10.0	106%	10.6	10.0	106%
1,2,4-Trichlorobenzene	10.2 B	10.0	102%	10.4 B	10.0	104%
Naphthalene	10.6 B	10.0	106%	10.9 B	10.0	109%
1,2,3-Trichlorobenzene	10.6 B	10.0	106%	10.8 B	10.0	108%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	102%	104%
d8-Toluene	101%	101%
Bromofluorobenzene	98.2%	100%
d4-1,2-Dichlorobenzene	101%	101%

ORGANICS ANALYSIS DATA SHEET

Volatile by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2
**ANALYTICAL
RESOURCES
INCORPORATED**

Sample ID: MB-020412
METHOD BLANKLab Sample ID: MB-020412
LIMS ID: 12-2081
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 02/06/12QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW SamplingDate Sampled: NA
Date Received: NAInstrument/Analyst: NT2/PKC
Date Analyzed: 02/04/12 04:37Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: ME-020412
METHOD BLANK

Lab Sample ID: MB-020412

LIMS ID: 12-2081

Matrix: Water

Date Analyzed: 02/04/12 04:37

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	0.2	J
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	0.2	J
87-61-6	1,2,3-Trichlorobenzene	0.5	0.2	J

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.5%
Bromofluorobenzene	99.5%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 2

Sample ID: MB-020612
METHOD BLANK

Lab Sample ID: MB-020612
LIMS ID: 12-2084
Matrix: Water
Data Release Authorized: *A*
Reported: 02/06/12

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/06/12 10:51

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	0.2	< 0.2	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoro	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 2 of 2

Sample ID: MB-020612
METHOD BLANK

Lab Sample ID: MB-020612
LIMS ID: 12-2084
Matrix: Water
Date Analyzed: 02/06/12 10:51

QC Report No: UH14-Windward Environmental, LLC
Project: American Linen GW Sampling

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	0.3	J
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	0.1	J
91-20-3	Naphthalene	0.5	0.2	J
87-61-6	1,2,3-Trichlorobenzene	0.5	0.2	J

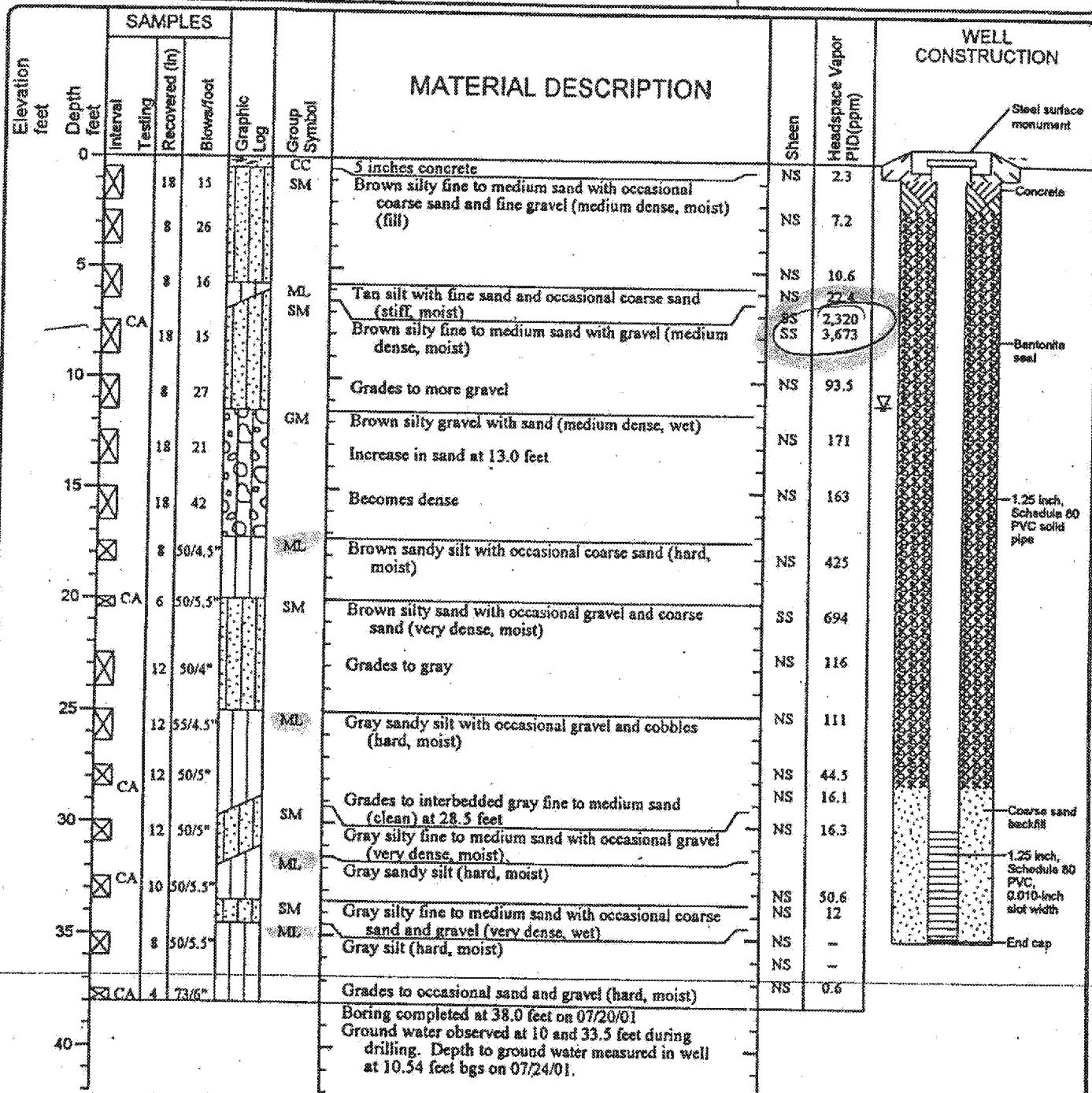
Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	98.2%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	102%

APPENDIX G. EXISTING MONITORING WELL LOGS

Date(s) Drilled	07/20/01	Logged By	TMK	Checked By	TMK
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Total Boring Depth (ft)	38	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Well Depth (ft)	36	Top of Well Elevation (ft)		Ground Water Level (ft. bgs)	10, 33.5
System/Datum	N/A	Easting	Not Determined	Northing	Not Determined



Note: See Figure A-2 for explanation of symbols

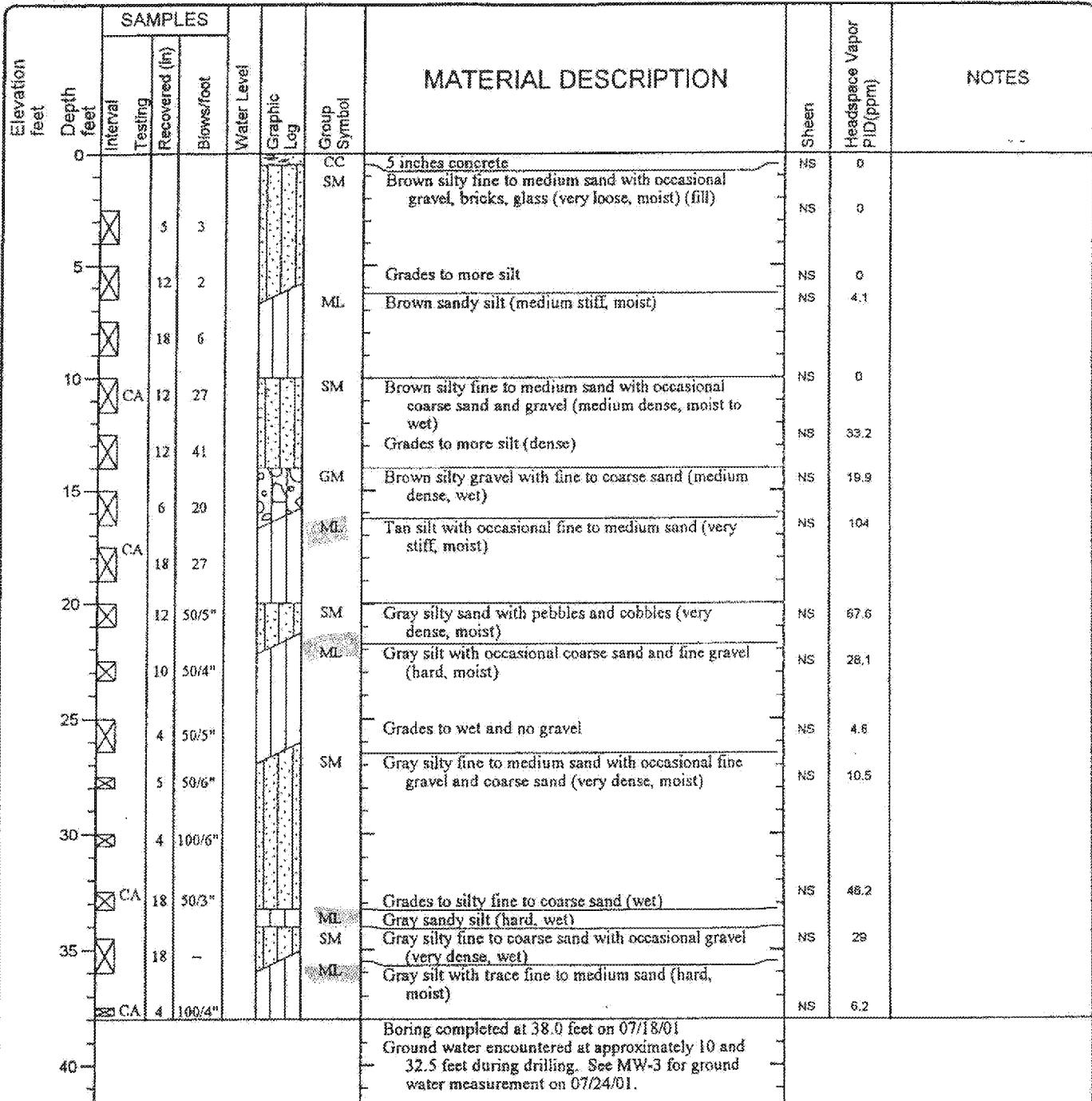
LOG OF MONITORING WELL MW-1



Project: American Linen
Project Location: Seattle, Washington
Project Number: 8673-001-01

Figure A-3
Sheet 1 of 1

Drilled	By	From	By	From	
Drilling Contractor	Davies Drilling	Drilling Method	Hollow Stem Auger	Sampling Methods	SPT
Auger Data	4.25 inch I.D.	Hammer Data	140 (lb) hammer/ 30 (in) drop	Drilling Equipment	Limited Access Rig
Total Depth (ft)	38	Surface Elevation (ft)	Not Measured	Ground Water Level (ft. bgs)	10, 32.5
Datum/ System	N/A	Easting	Not Determined	Northing	Not Determined



Note: See Figure A-2 for explanation of symbols

LOG OF BORING SB-4

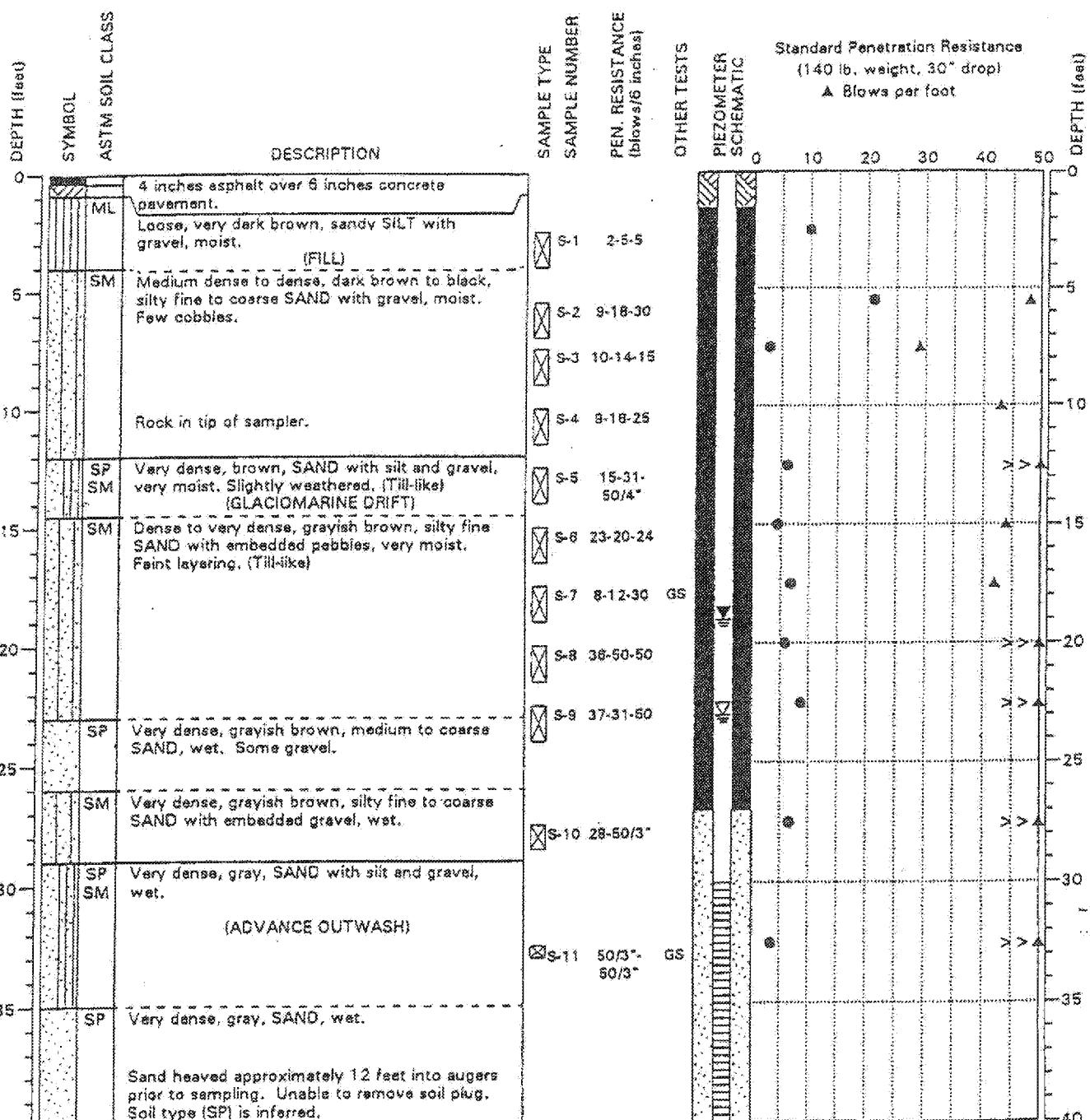


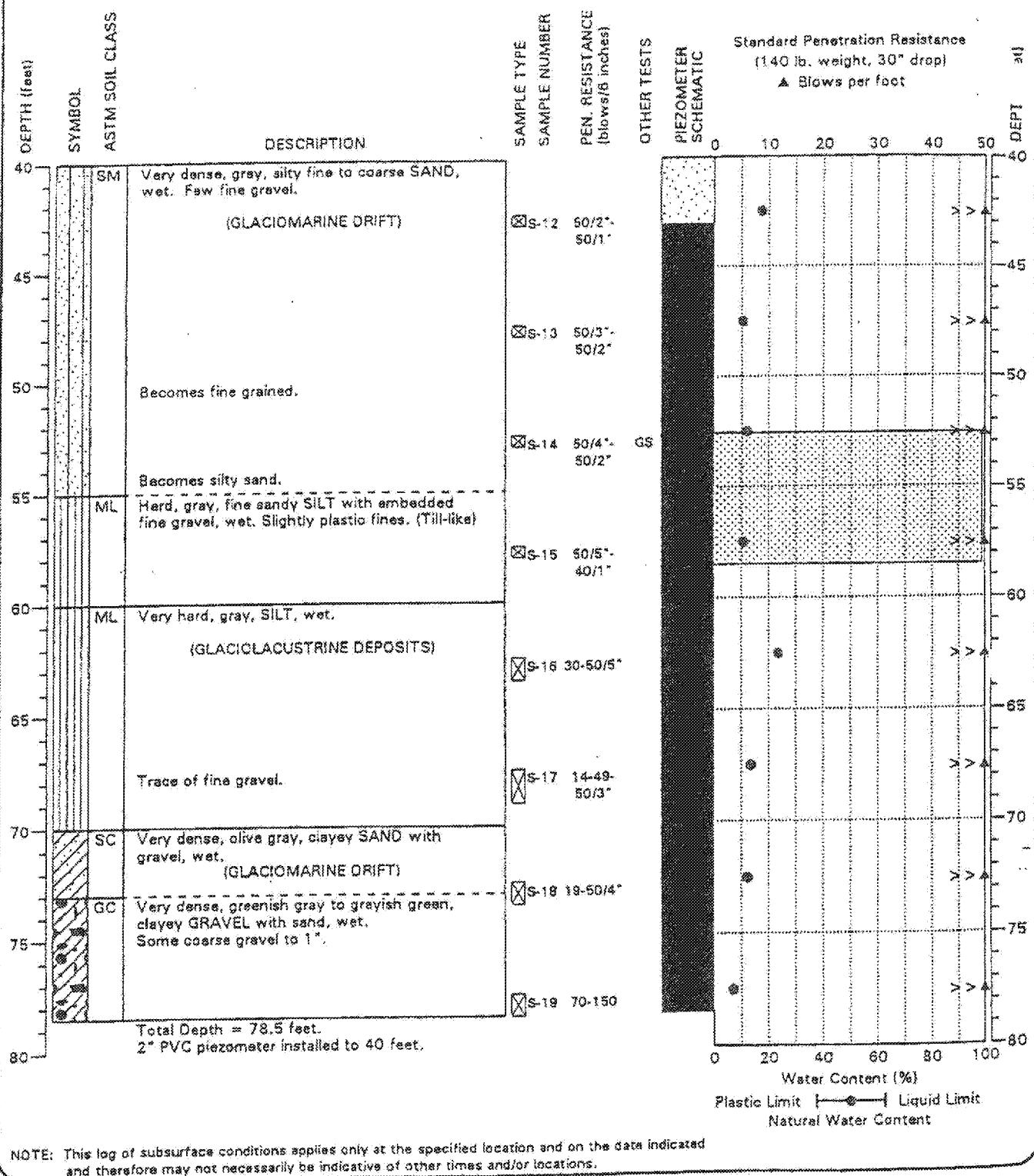
Project: American Linen
Project Location: Seattle, Washington
Project Number: 8673-001-01

Figure A-5
Sheet 1 of 1

DRILLING COMPANY: Rockwood Drilling
 DRILLING METHOD: 8-61 Mobile, 4.5" ID HSA
 SURFACE ELEVATION: 142 ± Feet

DATE COMPLETED: 6/6/97
 LOGGED BY: ADM





BORING: BB- 8

DW Denny Way / Lake Union CSO, Contract B
 HWAGEOSCIENCES INC. Seattle, Washington

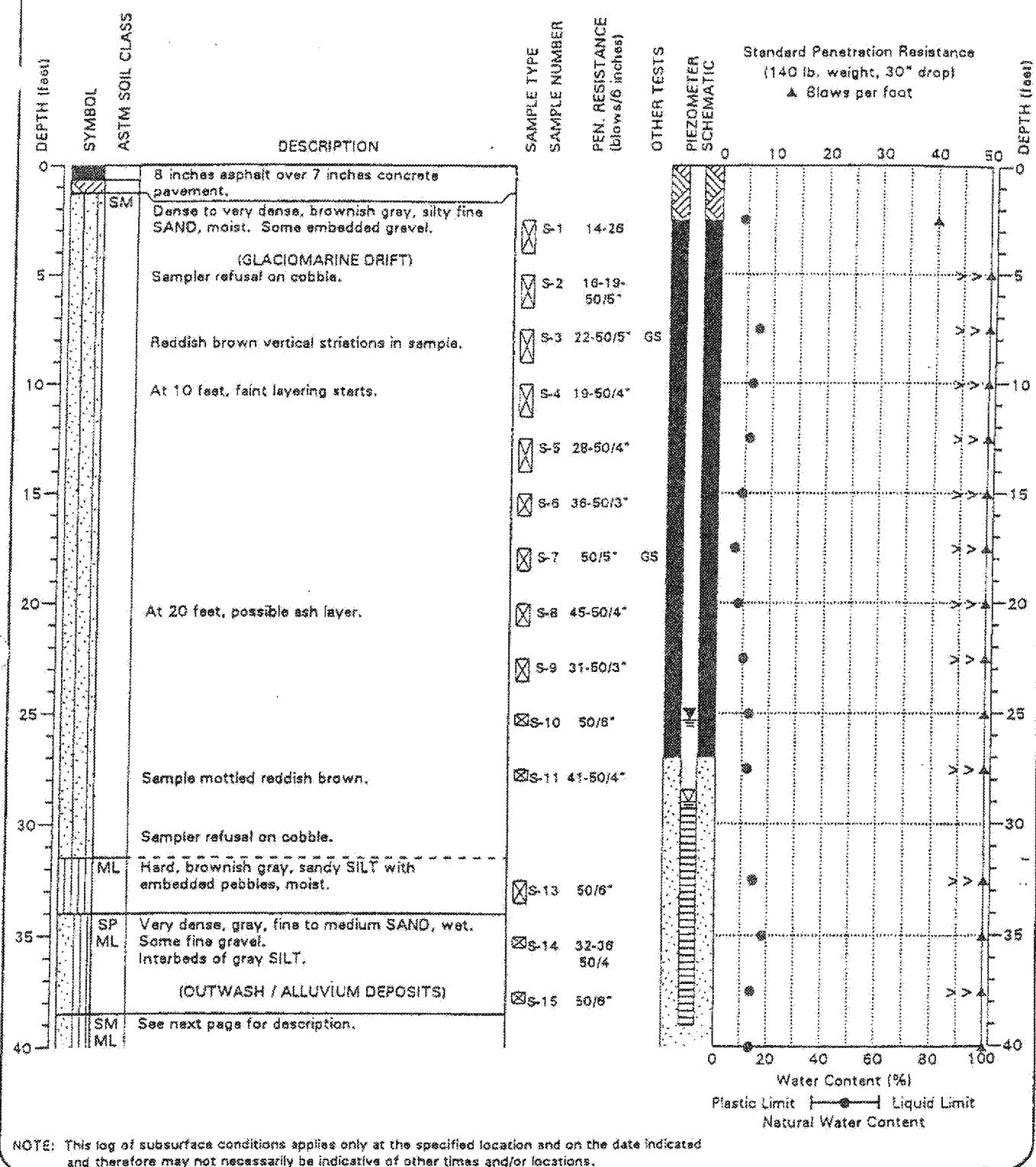
PAGE: 2 of 2

PROJECT NO.: 97061

FIGURE: A-9

DRILLING METHOD: B-61 Mobile, 4.5" ID HSA
SURFACE ELEVATION: 153 ± Feet

DATE COMPLETED: 8/29/93
LOGGED BY: GWE



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

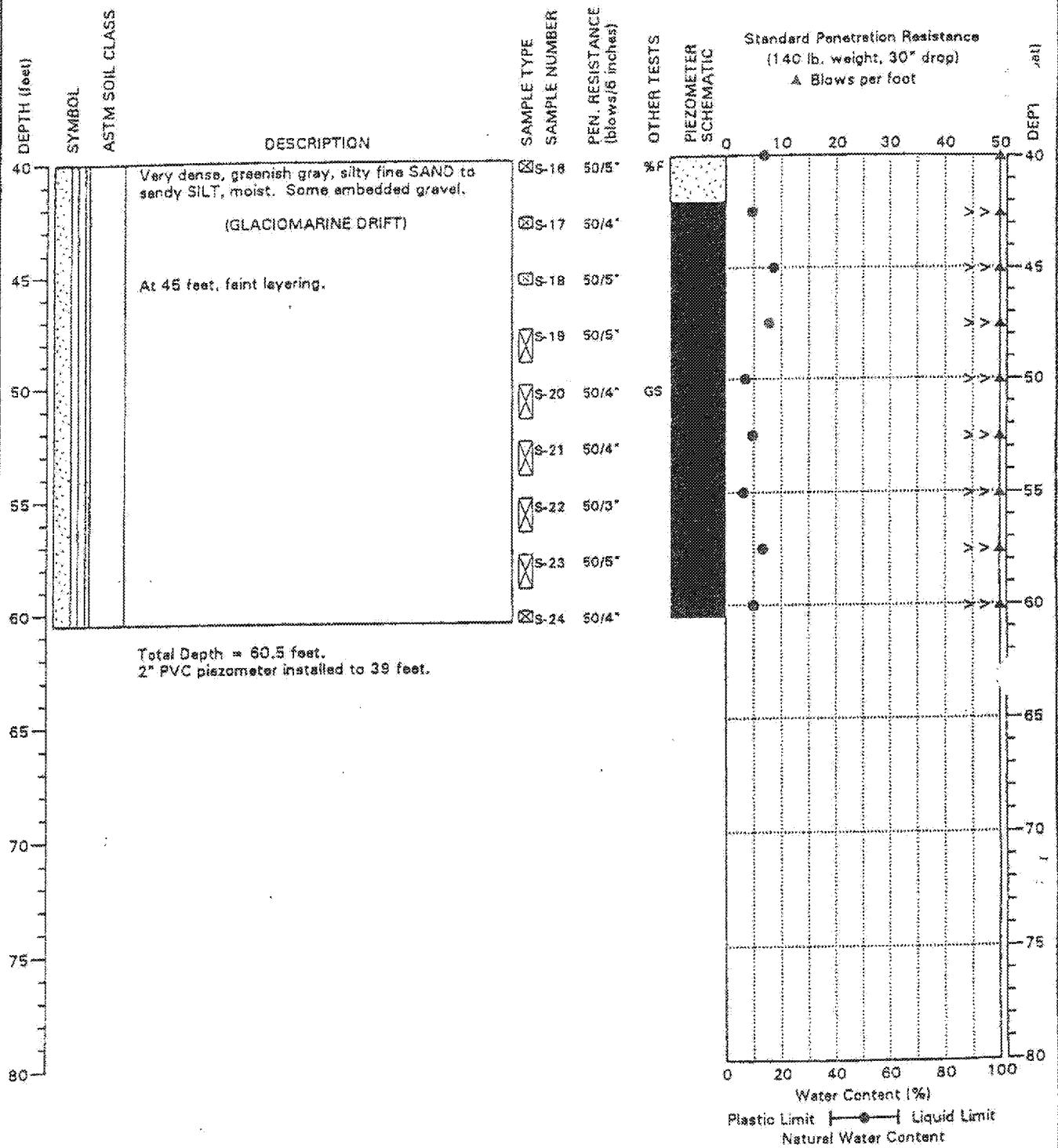
BORING: BB-10

 Denny Way / Lake Union CSO, Contract B
HW GEOSCIENCES INC Seattle, Washington

PAGE: 1 of 2

DRILLING CONTRACT NUMBER: 87-00000
DRILLING METHOD: B-61 Mobile, 4.5" ID HSA
SURFACE ELEVATION: 153 ± Feet

DATE COMPLETED: 8/23/97
LOGGED BY: GWE



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

BORING: BB-10



Denny Way / Lake Union CSO, Contract 8
Seattle, Washington
HWA GEOSCIENCES INC.

PAGE: 2 of 2

PROJECT NO.: 97061

FIGURE: A-10

Project: Maryatt Industries 773 Valley Street, Seattle, Washington		Log of Well No. MW1						
Date Started: 10/22/92 Completed: 10/22/92		Measuring Point Elevation (ft): 28.11 Total Depth (ft): 16.5						
Logged By: T. Ramadhan Checked By: BH		Water Level During Drilling (ft): 8.3 Stabilized (ft): 7.4						
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"						
Drilling Method: Hollow-stem Auger		Perforation: 0.010 Slot from 14 ft to 4 ft						
Drilling Equipment: Mobile B-36		Pack: 10-20 Sand from 15 ft to 3.5 ft						
Sampler: Split Spoon		Seal: Bentonite from 3.5 ft to 1.5 ft						
		Cement from 1.5 ft to 0 ft						
Depth (ft)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample #	Blow Count	OVM (gpm)	Recovery (%)	REMARKS
6	HILL, 50% sand and silt, 50% bricks, concrete blocks, railroad spikes, etc. Dark black, wet clay. Tiny appearance, no od x.			7 10 10	0	75		
10	Sandy SILT Red soil with fine grained sand, 15% fine gravel, very wet, no odor (F.G.)	SM		8 14 12		55		
15	SAND Grey-green, medium to coarse grained, 10% fine gravel, 15% clay mostly well rounded, saturated. SAND Medium to coarse, metallic gold colored biotite. Possible oily sheen on soil.	SW		23 24 34				
20								
25								
30								
35								

DRAFT

Project: Maryatt Industries 773 Valley Street, Seattle, Washington		Log of Well No. MW2						
Date Started: 10/22/92	Completed: 10/22/92	Measuring Point Elevation (ft): 30.86		Total Depth (ft): 15.0				
Logged By: T. Ramdasi	Checked By: BH	Water Level During Drilling (ft): 10.6		Stabilized (ft): 10.2				
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule 40 PVC		Drill Bit Diameter (in): 10"				
Drilling Method: Hollow-stem Auger		Perforation: 0.010 Slot		from 15 ft to 5 ft				
Drilling Equipment: Mobile H-56		Pack: 10-20 Sand		from 15 ft to 4 ft				
Scripier: Split Spoon		Seal: Bentonite		from 4 ft to 1.5 ft				
		Cement		from 1.5 ft to 0 ft				
Depth (ft)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blew Counts	OVM (gpm)	Permeability (Dk)	REMARKS
0	ILL. Clay, red, brick, concrete blocks.							
5	SIL. Medium greenish-brown, abundant orange oxidized, moist, cohesive, no odor, <10% sand fragments.				4 5 8		95	
10	Sandy SILT Medium green to brown, very moist, cohesive, moderate hydrocarbon odor. (F11?)	SM			4 6 2		70	
15	SILY SAND Mottled orange-brown and dark green, medium grained, saturated, weak hydrocarbon odor. (F11?)						30	
20								
25								
30								
35								
40								

DRAFT

Project: Maryatt Industries 773 Valley Street, Seattle, Washington		Log of Well No. MW3						
Date Started: 10/22/92	Completed: 10/22/92	Measuring Point Elevation (ft):	32.04	Total Depth (ft):	17.0			
Logged By: T. Ramsden	Checked By: BH	Water Level During Drilling (ft):	12.0	Stabilized (ft):	11.4			
Drilling Co.: Tacoma Pump & Drilling		Casing:	Schedule 40 PVC	Drill Bit Diameter (in):	10"			
Drilling Method: Hollow-Stem Auger		Perforation:	0.010 Slot	from	17 ft to 7 ft			
Drilling Equipment: Mobile B-56		Pack:	10-20 Sand	from	17 ft to 6 ft			
Sampler: Split Spoon		Seal:	Bentonite	from	6 ft to 1.5 ft			
		Cement:		from	1.5 ft to 0 ft			
Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OMM (grain)	Recovery (%)	REMARKS
0	Silt-Sand Fill: Light greenish-brown, moist, slightly cohesive, no odor.							
5	Sandy Silt Fill: Dark brown to green, very moist, cohesive, no odor.				10 14 10		30	
10	Silty Sand Fill: Tan, fine to medium grained, <10% fine gravel, moist, cohesive, no odor.				4 6 10		95	
15	Silt and Sand Fill: Medium brown to black, broken glass fragments, some gravel, wet, cohesive, very weak hydrocarbon odor.				8 10 21		70	
20								
25								
30								
35								

DRAFT

Project: Maryatt Industries 773 Valley Street, Seattle, Washington		Log of Well No. MW4										
Date Started: 10/23/92		Completed: 10/23/92			Measuring Point Elevation (ft): 40.94		Total Depth (ft): 34.5					
Logged By: T. Ramsden		Checked By: BH			Water Level During Drilling (ft): 26.0		Stabilized (ft): 21.9					
Drilling Co: Tacoma Pump & Drilling							Casing: Schedule 40 PVC					
Drilling Method: Hollow-stem Auger							Drill Bit Diameter (in): 10"					
Drilling Equipment: Mobile II-50							Perforation: 0.010 Slot					
Sampler: Split Spoon							Pack: 10-20 Sand					
							Seal: Bentonite					
							Cement					
							from 2 ft to 0 ft					
Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	OVM (gpm)	Recovery (%)	REMARKS				
5	5.0 Brown silt, sand, gravel with large cobbles near surface.				44 50/2"		75					
10	SM: SAND Medium grained.	SM			50/2"		0					
15	SIL: SAND Brown, 10% gravel up 1", moist, slightly loose, no odor.				20 50/4"	0	100					
20	SOC: SAND Dark brown, 5-10% gravel, very moist, cohesive no odor.				25/2"		0					
25	Sandy SILT Brown, <10% fine gravel, no odor, moist, cohesive.	ML			50/4"		100					
30	Sandy SILT Gray-green, <5% fine gravel, very moist, loose, no odor.				50/6"		100					
35	SIL: SAND Grayish green, cohesive & coarse grained, <10% gravel up to 2%, scattered no odor.	SP			58 43 50/4"		100					

DRAFT

Project: Maryatt Industries 773 Valley Street, Seattle, Washington		Log of Well No. MWS						
Due Started: 10/27/92	Completed: 10/27/92	Measuring Point Elevation (ft):	47.20	Total Depth (ft):	31.5			
Log'd By: B. Hall	Checked By: TR	Water Level During Drilling (ft):	26.0	Stabilizer (ft):	21.9			
Drilling Co: Tacoma Pump & Drilling		Casing: Schedule:	40 PVC	Drill Bit Diameter (in):	10"			
Drilling Method: Hollow-Stem Auger		Perforation: 0.010 Slot		from	30 ft to	15 ft		
Drilling Equipment: Mobile K-56		Pack: 10-20 Sand		from	30 ft to	13 ft		
Sampler: Split Spoon		Seal: Bentonite		from	13 ft to	1 ft		
		Cement		from	1 ft to	0 ft		
Depth (feet)	LITHOLOGIC DESCRIPTION	Lithology	Monitoring Well Construction	Sample	Blow Counts	GPM (Gpm)	Recovery (%)	REMARKS
5	EJ: Medium brown, 50% gravel, 30% silt, 20% sand, dry, sp. no odor.			5 6	0	70		
10	As above, moist, no odor.			4 5 6	0	80		
15	Sub-Glacial Gray, moist, 50% gravel, 40% fine sand, 10% silt, no odor.	GW		2 6 7	0	70		
20	Sub-SANU Grey-brown, 60% fine sand, 40% silt, hard packed, dry, no color.	SM		22 10 14	0	80		
25	Sub-anth. GRAVEL: Dark gray, 60% gravel, 20% sand, 20% silt, moist, no odor.	GW		26 40	0	25		DRAFT
30	As above, medium brown, wet, no odor.			20 27 13	0	70		
35								

Project: Maryatt Industries
773 Valley Street, Seattle, Washington

Log of Well No. MW6

Date Started: 10/27/92 Completed: 10/27/92

Measuring Point Elevation (ft): 35.39 Total Depth (ft): 22.0

Logged By: B. Hall

Checked By: TR

Water Level During Drilling (ft): 17.0 S.s. Size (ft): 17.8

Drilling Co: Tacoma Pump & Drilling

Casing: Schedule 40 PVC Drill Bit Diameter (in): 10"

Drilling Method: Hollow-stem Auger

Perforation: 0.010 Sk4 from 22 ft to 12 ft

Drilling Equipment: Mobile B-56

Pack: 10-20 Sand from 22 ft to 10 ft

Sampler: Split Spoon

Seal: Bentonite from 10 ft to 2 ft

Cement from 2 ft to 0 ft

Depth (ft)	Lithologic Description	Lithology	Monitoring Well Construction	Sample	Blow Count	Coring (in)	Recovery (%)	REMARKS	
								1	2
8	BB Medium brown, 50% gravel, 30% sand, 20% silt, brick fragments, damp, no odor.				11 11 11	C	53		
10	As above, abundant brick fragments.				22 24 18	C	53		
15	As above, gray, moist, no odor.				28 -	C	50		
20	As above, wet, no odor.				12 12 18	C	50		
25									
30									
35									

DRAFT

APPENDIX H. SEATTLE CITY LIGHT MONITORING WELL ELEVATIONS

SCL, 8th & Roy St. Property
Relative Groundwater Elevations
March 23, 2011

Point	Relative Ground Elevation, ft	Distance to Casing ² , ft	Measured DTW, ft	Groundwater Elevation ³ , ft
MW-6	-2.66	0.25	14.73	44.01
MW-7	-5.45	0.57	12.36	43.27
MW-8	-7.67	0.25	10.81	42.92
MW-9	0.00	0.33	14.81	46.51
MW-10	-2.89	0.27	14.78	43.71
SCS-1	-0.81	0.75	16.85	43.24
SCS-2	-1.53	0.42	16.3	43.41
SCS-3	-4.17	0.21	13.78	43.49
SCS-4	-5.30	0.48	12.42	43.45
SCS-5	-1.82	0.23	16.21	43.40
MW-101	-10.16	0.49	7.30	43.71
MW-105 ¹	-9.52	0.33	10.09	41.71

¹ Not included in our evaluation.

² Measured from ground surface to top of casing.

³ Based on approximate elevation of 61.65 feet at MW-9 per RETEC 1995 report.