April 2, 2015

Michael Olsen
Director, Environmental Affairs
Sears Holdings Management Corporation
3333 Beverly Road
Hoffman Estates, Illinois

Re: **Phase II Environmental Site Assessment Letter Report**
Sears Holdings Management Corporation
Store No. 1114 and Sears Auto Center No. 6104
2307 Beverly Road
Brooklyn, New York
BBJ Group Project No. R1507831-07

Dear Mr. Olsen:

BBJ Group, LLC (BBJ Group) is pleased to provide Sears Holdings Management Corporation (Sears) with this *Phase II Environmental Site Assessment (Phase II ESA) Letter Report* for Sears Store No. 1114 and Sears Auto Center No. 6104 located at 2307 Beverley Road in Brooklyn, New York (Subject Property). This project was performed in accordance with the scope of work outlined in the Sears Environmental Work Order authorized February 13, 2015.

Purpose

The objective of the Phase II ESA was to investigate potential impacts associated with the recognized environmental conditions (RECs) identified at the Subject Property during Phase I Environmental Site Assessment activities completed in December 2014. RECs identified are presented below.

Sears Auto Center Oil/Water Separator (OWS) – An OWS of unknown size located at the exterior southeast corner of the Sears Auto Center building was identified in a Fluor Daniel GTI report dated October 16, 1996; and additional OWS was located within the interior of the southwest corner of the Auto Center basement. Mr. Glenn indicated that he did not know the date of the last cleaning or inspection nor the results of any recent cleanings or inspections for the OWS located at the southwest corner of the Auto Center basement and was unaware of the condition of the presence of the exterior OWS. At the time of the site visit, BBJ Group was also not able to view the condition of the walls, bottom, and piping related to either OWS directly to evaluate the condition of the OWS. Consequently, BBJ Group considered the Auto Center interior and exterior OWS' to be a REC.

Sears Auto Center Trench Drain – A trench drain was observed in the Sears Auto Center. BBJ Group presumes that the trench drain is routed to the OWS. The trench drain appeared to be in fair condition at the surface; however the interior of the trench drain was not

observed. Given that (1) the interior condition of the trench drain could not be evaluated, and (2) the trench drain presumably was constructed over 40 years ago when the Auto Center was constructed, BBJ Group regarded the Sears Auto Center Trench Drain as a REC.

Sears Auto Center Undocumented Hydraulic Lift Removal – One abandoned UHL, concrete patching, and eight AHLs were observed in the Auto Center during the site reconnaissance. Based on the available documentation as presented in the P-502 Plumbing 1st Floor Plan & Details-1963, at least six UHLs were planned at the Auto Center and AHLs are typically used to replace non-functioning UHLs. No hydraulic lift documentation was provided for the removal of UHLs at the Subject Property.

Given that (1) UHL removal or replacement commonly occurs when the hydraulic system fails and (2) no documentation was provided for the removal of the six onsite UHLs, BBJ Group considered the Undocumented Hydraulic Lift System Removals to be an REC.

Adjoining Property Automotive Garages and Service Stations – Several automotive garages and automotive service stations were observed adjacent to the north (upgradient) of the Subject Property in the fire insurance maps for the years 1929 through 1995. Given the close proximity, lack of closure documentation, and upgradient location, BBJ Group regarded the Adjoining Property Automotive Stations as an REC.

This report was prepared for the specific use of Sears Holdings Management Corporation, its subsidiaries, and affiliates under an agreed upon scope of work, terms and conditions. Reliance on this document by any parties other than Sears Holdings Management Corporation may occur only upon the express written consent of BBJ Group. Such reliance shall be subject to the terms and conditions agreed upon between BBJ Group and Sears Holdings Management Corporation and only to the extent appropriate in light of any limitations placed on the scope, nature and type of BBJ Group's services as stated in BBJ Group's proposal for this project and/or this Phase II ESA Report. The services provided have been performed for Sears Holdings Management Corporation and this Phase II ESA Report may not be suitable for any and/or all of the purposes of a relying party. Use of this Phase II ESA Report for purposes beyond those reasonably intended by Sears Holdings Management Corporation and BBJ Group will be at the sole risk of the user.

Health and Safety and Utility Clearance

Prior to initiating field activities, BBJ Group prepared a Health and Safety Plan (HSP) for use by BBJ Group's on-site representative to address known and suspected site-specific constituents of concern (COCs), potential site and work-related hazards, and additional health and safety issues. The approved public utility-locating companies were contacted to clear the underground utilities over 48 hours prior to field work. In advance of field activities, building blueprints (if available) were reviewed to identify subsurface utilities. All borings were hand cleared for the first foot of depth following penetration of any hard surface (e.g., concrete or asphalt).

Field Activities

On February 25, 2015 a BBJ Group representative advanced soil borings using direct-push technology at the locations shown in the attached boring location figures. Soil borings were

generally advanced to a depth representing the shallowest of the following: 20 feet below ground surface (bgs), groundwater level encountered during drilling, or boring refusal. Groundwater was not intersected during the investigation; therefore, no groundwater samples were collected. BBJ Group's Field Procedures are presented in Attachment A, and Soil Boring Logs are included as Attachment B.

A summary of soil boring completion depths, sample collection depths, and other notable field observations are presented in the table below.

Boring ID	Boring Completion Depth (feet bgs)	Depth to Groundwater (feet bgs)	Soil Sample Collection Depth (feet bgs)	Notable Field Observations	Rationale for Collection Depth	Groundwater Collected? (Y/N)
Oil Water Separator						
GP-1114-1	1'	NA	0.5'-1'	Non-detect on PID	Refusal at 1'	N
Trench Drain						
GP-1114-2	20'	NA	2'-5'	Non-detect on PID	Depth below bottom of trench drain	N
Undocumented Hydraulic Lift Removal						
GP-1114-3	3'	NA	1'-3'	Non-detect on PID	Refusal at 3'	N
GP-1114-4	3.5'	NA	1'-3'	Non-detect on PID	Refusal at 3.5'	N
GP-1114-5	3'	NA	1'-3'	Non-detect on PID	Refusal at 3'	N
GP-1114-6	3'	NA	1'-3'	Non-detect on PID	Refusal at 3'	N
Adjoining Property Automotive Garages and Service Stations						
GP-1114-7	20'	NA	2'-5'	Non-detect on PID	Depth below adjoining property (automotive garages and service stations)	N
GP-1114-8	20'	NA	8'-10'	Non-detect on PID	Depth below adjoining property (automotive garages and service stations)	N

Investigative and rinsate quality assurance/quality control (QA/QC) samples were analyzed by ESC Lab Sciences in Mt. Juliet, Tennessee, typically using one or more of the following methods:

- VOCs or benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B;
- Semivolatile organic compounds (SVOCs) or polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270C;
- Resource Conservation and Recovery Act (RCRA) metals by USEPA Method 6010B and 7471B;
- Hexavalent chromium by USEPA Method 7196A;
- Polychlorinated biphenyls (PCB) by USEPA Method 8082;
- Total Petroleum Hydrocarbons (TPH) by USEPA Method 8015; and
- pH by USEPA Method 9045C.

A trip blank was included in each cooler containing samples for VOC analysis. As such, trip blanks were analyzed for VOCs using USEPA Method 8260.

Specific analyses run for each investigative sample collected are presented in the table below.

	Sample IDs				BTEX		VOC		PAH		RCRA + Cr+6 +pH		PCB		TPH	
RECs	Soil	Ground-water	Rinsate	Trip Blank	**Soil**	**GW**	**Soil**	**GW**	**Soil**	**GW**	**Soil**	**GW**	**Soil**	**GW**	**Soil**	**GW**
SAC OWS	GP-1114-1		Rinsate-1114-1				1		1		1		1			
SAC Trench Drain	GP-1114-2		Rinsate-1114-2				1		1		1		1			
SAC Undocumented Hydraulic Lift Removal	GP-1114-3 through 6								4				4		4	
Adjoining Property Automotive Garages and Service Stations	GP-1114-7 & 8				2				2							

Findings and Analytical Results

BBJ Group compared the soil laboratory analytical results to the New York State Department of Environmental Conservation (NYSDEC) Regulations and Enforcement (R&E), Chapter IV – Quality Services, Subpart 375-6: Remedial Program, Restricted Use Soil Cleanup Objectives (SCOs) for soil[1] and the NYSDEC Commissioner Policy 51: Soil Cleanup Guidance SCOs. Groundwater was not intersected during the investigation; therefore, no groundwater samples were collected or analyzed. Samples with constituents reported to exceed these standards are presented below.

Soil

Sample ID	Constituents Above Standards	REC
GP-1114-2	Lead and SVOCs	Trench Drain

Groundwater

Groundwater was not intersected during the investigation; therefore, no groundwater samples were collected.

QA/QC Samples

In addition to the investigative samples, BBJ Group collected two rinsate samples for QA/QC purposes. Hexavalent chromium was reported present above the laboratory reporting limit in the Rinsate-1114-1 and Rinsate-1114-2 samples. However, given that no exceedances of the SCO for hexavalent chromium were reported in any investigative sample, this is not anticipated to adversely affect our findings.

A summary of the laboratory analytical results is presented in Tables 1 and 2. The laboratory analytical report is presented in Attachment C.

We appreciate the opportunity to provide SHMC with our environmental consulting services. We will follow up to answer any questions you may have, and look forward to meeting your environmental needs.

Sincerely,

BBJ Group, LLC

Asher Levinson
Staff Engineer

Andrew Bajorat, CHMM
Principal

[1] Laboratory results for soil were compared to NYSDEC R&E Subpart 375-6, Table 375-6.8(b) restricted use SCOs and the NYSDEC Commissioner Policy 51 Table 1 SCOs for commercial properties, protection of ecological resources, and protection of groundwater.

TABLES

Table 1 - Soil Sample Results
Brooklyn/Beverly, NY

Matrix: SS
Lab Sample ID: L750695-*

Results

Client Sample ID									GP-1114-1		GP-1114-2		GP-1114-3		GP-1114-4		GP-1114-5		GP-1114-6		GP-1114-7		GP-1114-8	
Lab Sample ID									L750695-01		L750695-02		L750695-03		L750695-04		L750695-05		L750695-06		L750695-07		L750695-08	
Collect Date									2/25/2015		2/25/2015		2/25/2015		2/25/2015		2/25/2015		2/25/2015		2/25/2015		2/25/2015	
Method	Parameter	Units	NY T375 6-8b Com[1]	NY T375 6-8b Eco[1]	NY T375_6-8b GW Pro[1]	NY CP-51 Tbl 1 Comm[2]	NY CP-51 Tbl 1 Pro[2]	NY CP-51 Tbl 2 Gas[2]	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
2580 B-2011	ORP	mV							160		160													
9045D	pH	su							7.6		7.8													
2540 G-2011	Total Solids	%							95.6		86.8		98		97.4		96.7		97.8		90.3		89.7	
7471A	Mercury	mg/kg			0.73				0.022		0.078													
6010C	Arsenic	mg/kg	16	13	16				1.6	J	3.7													
6010C	Barium	mg/kg	400	433	820				22		46													
6010C	Cadmium	mg/kg	9.3	4	7.5				<0.52		0.13	J												
6010C	Chromium	mg/kg							12		12													
6010C	Lead	mg/kg		63	450				19		70													
8260C	Acetone	mg/kg	500	2.2	0.05				0.038	J	0.047	J												
8260C	2-Butanone (MEK)	mg/kg	500	100	0.12			0.3	0.0064	J	0.0058	J												
8260C	Naphthalene	mg/kg	500		12			12	<0.0052		0.17													
8260C	Tetrachloroethene	mg/kg	150	2	1.3				0.00034	J	<0.0012													
8260C	1,2,4-Trimethylbenzene	mg/kg	190		3.6			3.6	<0.0010		0.00091	J												
8260C	1,2,3-Trimethylbenzene	mg/kg							<0.0010		0.00058	J												
8260C	1,3,5-Trimethylbenzene	mg/kg	190		8.4			8.4	<0.0010		0.00056	J												
3546/DRO	TPH (GC/FID) High Fraction	mg/kg											1.1	J	3.9	J	2	J	13					
8270D	Anthracene	mg/kg	500		1000				0.029	J	20		<0.034		<0.034		0.033	J	0.013	J	0.2		<0.18	
8270D	Acenaphthylene	mg/kg	500		107				<0.034		0.1	J	<0.034		<0.034		<0.034		<0.034		<0.18		<0.18	
8270D	Acenaphthene	mg/kg	500	20	98				0.012	J	8.5		<0.034		<0.034		0.012	J	<0.034		<0.18		<0.18	
8270D	Benzo(a)anthracene	mg/kg	5.6		1				0.1		36		0.028	J	0.02	J	0.11		0.062		0.71		<0.18	
8270D	Benzo(a)pyrene	mg/kg	1	2.6	22				0.097		32		0.026	J	0.018	J	0.11		0.059		0.69		0.03	J
8270D	Benzo(b)fluoranthene	mg/kg	5.6		1.7				0.12		34		0.03	J	0.02	J	0.12		0.068		0.81		<0.18	
8270D	Benzo(g,h,i)perylene	mg/kg	500		1000				0.064		17		0.019	J	0.012	J	0.073		0.041		0.44		0.044	J
8270D	Benzo(k)fluoranthene	mg/kg	56		1.7				0.04		11		0.01	J	0.0093	J	0.044		0.021	J	0.26		<0.18	
8270D	Chrysene	mg/kg	56		1				0.095		29		0.026	J	0.02	J	0.1		0.067		0.64		<0.18	
8270D	Dibenz(a,h)anthracene	mg/kg	0.56		1000				0.016	J	4.1		<0.034		<0.034		0.018	J	0.0098	J	0.11	J	<0.18	
8270D	Fluoranthene	mg/kg	500		1000				0.19		86		0.044		0.035		0.21		0.1		1.3		0.044	J
8270D	Fluorene	mg/kg	500	30	386				0.0092	J	11		<0.034		<0.034		0.01	J	<0.034		<0.18		<0.18	
8270D	Indeno(1,2,3-cd)pyrene	mg/kg	5.6		8.2				0.058		15		0.016	J	0.011	J	0.061		0.032	J	0.4		<0.18	
8270D	Naphthalene	mg/kg	500		12			12	0.0082	J	6.6		<0.034		<0.034		0.0076	J	0.0075	J	0.049	J	0.032	J
8270D	Phenanthrene	mg/kg	500		1000				0.1		76		0.024	J	0.018	J	0.12		0.05		0.46		<0.18	
8270D	Pyrene	mg/kg	500		1000				0.19		76		0.051		0.037		0.22		0.12		1.2		0.047	J

Notes
This table lists results only for those analytes which were present at concentrations above laboratory reporting limits in one or more samples. Such results are highlighted in the table above.

Report generated on: 09-Mar-15 at: 02:48 PM

Qualifiers:
J (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

NYSDEC - New York State Department of Environmental Conservation
1 - NYSDEC, Regulations and Enforcement, Chapter IV - Quality Services, Subpart 375-6: Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted use Soil Cleanup Objectives.
2 - NYSDEC Commissioner Policy 51: Soil Cleanup Guidance Policy.

Table 2 - QA/QC Sample Results
Brooklyn/Beverly, New York

Matrix: GW
Lab Sample ID: L750695-*

Results

Client Sample ID				RINSATE-1114-1		RINSATE-1114-2	
Lab Sample ID				L750695-09		L750695-10	
Collect Date				2/25/2015		2/25/2015	
Method	**Parameter**	**Units**	**TOGS Wkg[1]**	**Value**	**Qual**	**Value**	**Qual**
7199	Hexavalent Chromium-Low Level	mg/l	0.05	0.00037		0.00036	
9040C	pH	su		8.2	T8	8	T8

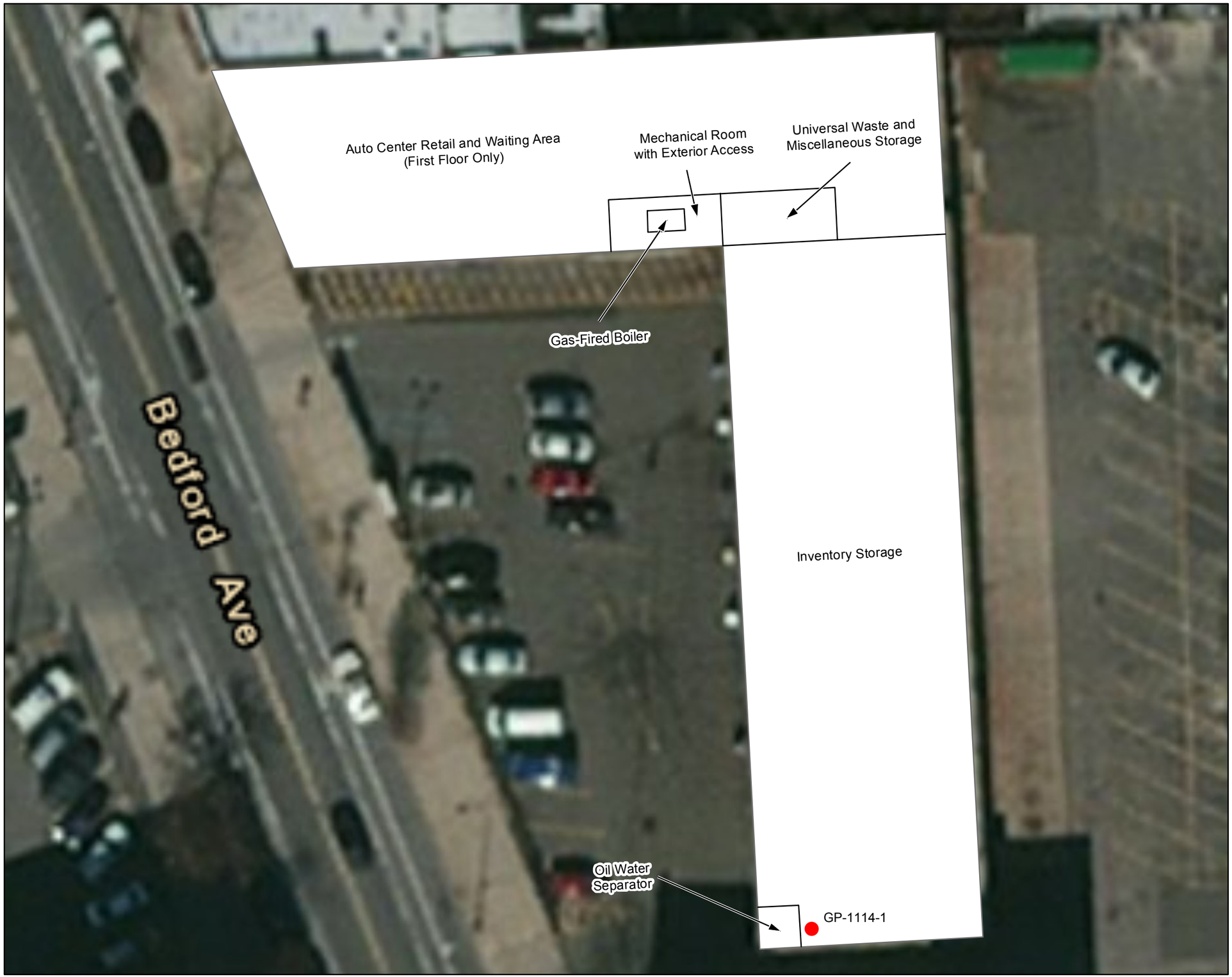
Notes
This table lists results only for those analytes which were present at concentrations above laboratory reporting limits in one or more samples. Such results are highlighted in the table above.

Report generated on: 09-Mar-15 at: 02:51 PM

Qualifiers:
T8 (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

1 - NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, Table 1

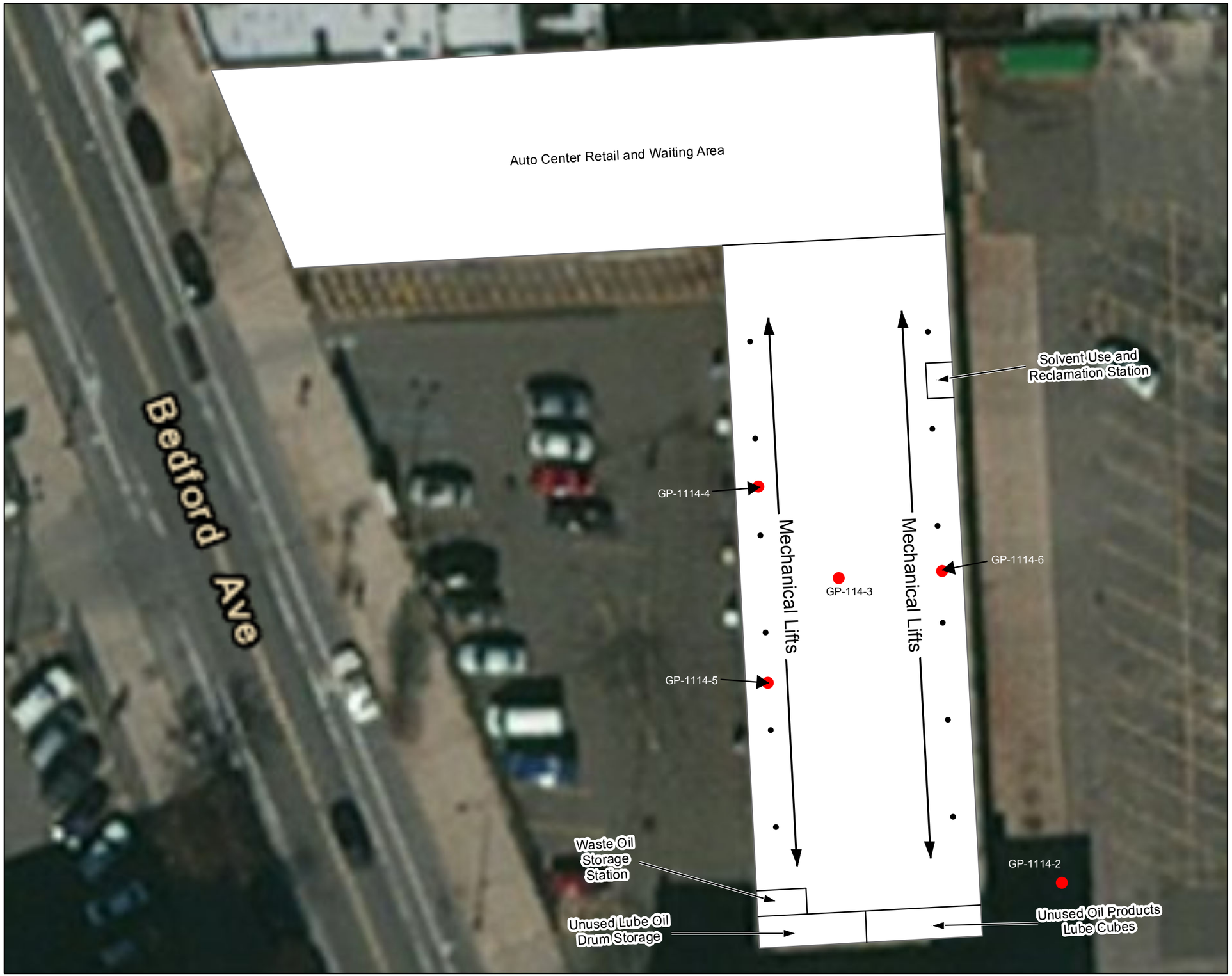
FIGURE



LEGEND

- Soil Boring Location

DRAFTED BY: AGS	BORING LOCATION MAP
CHECKED BY: AWB	SEARS 2307 BEVERLY RD BROOKLYN, NY
REVIEWED BY:	
N	BBJ GROUP
SCALE: 0 15 30 Feet	DATE: 2/12/2015
	FIGURE: 1



LEGEND

- Floor Drain
- Soil Boring Location

DRAFTED BY: AGS	BORING LOCATION MAP
CHECKED BY: AWB	SEARS 2307 BEVERLY RD BROOKLYN, NY
REVIEWED BY:	BBJ GROUP
N	SCALE: 0 15 30 Feet
	DATE: 2/12/2015
	FIGURE: 2

LEGEND

1. Residential with First Floor Commercial
2. Retail and Office Building
3. Sears Auto Retail Area
4. Sears Auto Service Area
5. Residential Area
6. Residential Area
7. Residential Area
8. Residential Area
9. F.E.G.S.
10. Pentacostal Church

Approximate Subject Property Boundary

Soil Boring Location

DRAFTED BY: AGS	BORING LOCATION MAP FULL SITE		
CHECKED BY: AWB	SEARS 2307 BEVERLY RD BROOKLYN, NY		
REVIEWED BY:			
N	BBJ GROUP		
	SCALE 0 100 200 Feet	DATE 2/12/2015	FIGURE 3

Attorney-Client Privilege
Prepared at Request of Counsel

ATTACHMENT A
FIELD PROCEDURES

The media targeted by this subsurface assessment and the sampling methods and protocol are described in this Attachment.

A.1 Sampling Equipment

The following sampling equipment was used during field activities at the Subject Property:

- Geoprobe® direct-push technology (DPT) sampling equipment;
- A photo-ionization detector (PID), equipped with an 10.6 electron volt (eV) lamp for field-screening soil samples and for health and safety air monitoring;
- Peristaltic pump with dedicated and disposable polyethylene tubing;
- Clean, plastic "Ziplock" bags for use in describing soil samples and for field screening purposes;
- Laboratory-supplied containers for the collection of soil and ground-water samples targeted for laboratory analyses;
- Phosphate-free soap, potable water and distilled water for equipment cleaning;
- Laboratory-supplied deionized water (purge water) for the preparation of quality assurance/quality control (QA/QC) samples;
- Disposable latex and/or nitrile gloves;
- Sample shipping containers (e.g., coolers); and
- Sealed trip blanks, prepared by laboratory using deionized water (shipped with sample coolers).

A.2 Soil probe/Soil Probe Advancement and Soil Sampling Procedures

This section describes the various types of soil probe and/or soil probe techniques that were used, as well as specific soil sample collection procedures.

A.2.1 DPT Advancement Procedures

A Geoprobe® DPT sampling machine was used to collect soil samples from the soil probes. The machine advances a soil probe by means of a hydraulic hammer that drove the sampler vertically into the ground. Soil samples were collected using a 1.5-inch diameter, 48-inch long sampling tube

with dedicated, disposable acetate liners. Use of a releasable plunger inside the tube allows the sampler to be advanced to the desired depth and a discrete sample to be collected.

A.2.2 Soil Sample Screening and Collection Procedures

Upon retrieval, the soil sample was removed from the sampler and visually classified by field personnel. Each soil sample was split into two portions and placed in re-sealable plastic bags. One bag was placed into a cooler with ice, and the other was kept in a warm environment (approximately 70 degrees Fahrenheit or greater) for approximately 10 minutes in an effort to promote volatilization of potential organic vapors within the soil.

After approximately 10 minutes, headspace screening using a PID was performed on the soil sample kept in the warm environment. The PID was calibrated daily in accordance with the manufacturer's directions. After a minimum of 10 minutes within a warm environment, the probe on the PID was inserted into the soil bag, and a sample of headspace air was withdrawn. The maximum reading was recorded in the field book and/or on the soil probe log. Readings were recorded in parts per million, referencing the calibration gas used.

Based on field screening and visual observations, field personnel selected a "worst case" soil sample from each probe generally based on the following criteria:

- The soil sample that exhibited the highest PID screening results; and/or,
- Appeared to exhibit the most prominent staining; and/or,
- Exhibited the strongest potential chemical odor (or, in the absence of an apparent chemical odor, the strongest anomalous odor, as noted).

The soil contained in the soil bag used for field screening also was used for classification. The soil was visually classified by the on-site field personnel in accordance with American Society for Testing and Materials (ASTM) D 2488-93 and described on the appropriate field sampling form(s).

A.3 Temporary Monitoring Well Advancement and Groundwater Sampling Procedures

This section describes the techniques used to install temporary monitoring wells, as well as specific groundwater sample collection procedures.

A.3.1 Temporary and Permanent Ground-Water Monitoring Well Installation, Development, and Sampling Procedures

Once soil borings/probes were advanced to the appropriate depths (and determined by the on-site field personnel), permanent groundwater monitoring well(s) are installed in selected bore/probe holes. The appropriate depths were determined by evaluating the depth to groundwater encountered in the bore/probehole at the time of drilling and then by advancing the soil boring/probe to the appropriate depth. The actual depth may have been more or less depending on one or more combinations of the following:

- Subsurface soil conditions encountered during drilling; and/or

- Anticipated seasonal fluctuations in the groundwater table.

A.3.2. Temporary Monitoring Well Sampling Procedures

Groundwater samples were collected using dedicated, disposable/replaceable PVC bailer or peristaltic pump. The PVC bailer or peristaltic pump was lowered gently into the monitoring well when collecting the sample. Upon collection, the groundwater samples were placed into pre-cleaned, laboratory-supplied containers with the proper preservative(s) and shipped to the laboratory. Upon arriving at the laboratory, the samples were then tested for the constituents specified in the scope of work. Sampling was performed wearing clean, disposable latex or nitrile gloves, one pair per sampling location. After sampling, the tubing or bailers and gloves were placed into a designated on-site dumpster for disposal and the pump was decontaminated with non-phosphate soap and deionized water.

A.4 Probe Hole Abandonment

Following the advancement of the soil probes, the probe holes were backfilled with soil from the probe to approximately six inches below ground surface (bgs). The surface above the probe hole was then patched with asphalt or concrete, as necessary, to restore the surface to pre-existing conditions.

A.5 Quality Assurance/Quality Control

The following sections outline QA/QC protocol, sample containers, sample preservation, sample identification and chain-of-custody procedures implemented during sampling activities.

A.5.1 QA/QC Samples

Trip Blank

Trip blank samples that consisted of de-ionized water, provided by the analytical laboratory, accompanied the cooler(s) containing the samples from the laboratory, to the field and back to the laboratory. The trip blanks were used to assess potential cross-contamination from the cooler and handling practices, in addition to assessing potential cross-contamination between samples. Trip blanks were analyzed for VOCs only.

Equipment Rinse

Two equipment rinse samples were collected to evaluate potential cross-contamination of samples during equipment cleaning procedures. The equipment rinse was collected by pouring deionized water provided by the laboratory over the sampling equipment and into sample containers. The equipment rinse samples were shipped with the soil and groundwater samples collected that day

and were analyzed for the same suite of potential constituents of concern (COCs) as the environmental samples.

A.5.2 Sample Containers and Preservation

Sample containers prepared by a commercial vendor were provided by the laboratory.

A.5.3 Sample Identification

Prior to sample collection, the appropriate container (with preservative, if applicable) was labeled with the following information:

- Sample identification;
- Initials of collector;
- Date and time of collection;
- Analytical parameters requested; and
- Preservative used.

Samples were packed in coolers (with containerized ice) complete with custody seals and transported via courier to the laboratory. Chain-of-custody documentation outlined as follows accompanied each shipment of samples to the laboratory.

A.5.4 Chain-of-Custody Procedures

Chain-of-custody began when the pre-cleaned sample containers arrived in the field in coolers with signed and dated custody seals. At the time of sample collection, the labeled samples were placed into an iced cooler. A line-item chain-of-custody form was then completed by the sampler. Chain-of-custody allowed the samples to be traced from the time of collection to their receipt in the laboratory. Upon completion of all line items, the sampler signed, dated, listed the time, and checked the completeness of all descriptive information contained on the form. One copy of the completed chain-of-custody was retained by the sampler. Each individual who subsequently assumed responsibility for the samples signed the chain-of-custody record. The following items were included on the chain-of-custody form:

- Sample identification;
- Signature of sampler;
- Date and time of collection;
- Sample type (i.e., aqueous or soil);
- Sample location;
- Number, size, and type of containers;
- Analytical parameters requested;
- Preservative (where applicable);
- Signatures of personnel involved in the chain of possession; and,
- Dates and times of relinquishment and receipt.

A.6 Cleaning and Disposal of Investigation-Derived Wastes (IDW)

Cleaning procedures were employed to minimize the potential for cross-contamination, off-site migration of potential COCs, and personal exposure to COCs. As Geoprobe® direct-push technology was employed, only *de minimis*[2] quantities of solid materials and/or fluids were generated during site assessment activities. Consequently, containerization and disposal of IDW was not warranted.

A.6.1 Equipment Cleaning

Equipment involved in field sampling activities was cleaned prior to probe hole advancement, sampling, or leaving the Subject Property. During soil sampling, cleaning of the sampling equipment was conducted between each sample interval and included the following:

- Removal of visible sediment using brush and non-phosphate soap and potable water mixture; and

- Potable water rinse.

A.7 Record Keeping

BB&J field personnel documented the field activities (with corresponding times) and pertinent information in a dedicated project filed logbook. Information that was recorded included: the names and companies of on-site personnel (BB&J, client, subcontractors, etc), weather conditions, and the purpose of activities and details of the fieldwork (e.g., soil conditions, sampling depths, etc.).

[2] Conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. ASTM E 1527-05.

ATTACHMENT B

BORING LOGS

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Road, Brooklyn, NY
Boring Number: GP-1114-1
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 1'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*	0.0	.5'-1'		6"	Brown, medium to fine sand, some small and medium size gravel, dry, no odor. Refusal at 1'.	
5							
10							
15							
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-2
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 20'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*(2'-5')	0.0	0-5'		24"	Pre-cleared to 2': Brown, medium to coarse sand with gravel, moist, no odor. 2'-5': Dark brown to brown, medium to coarse sand with gravel, dry, no odor	
5		0.0	5'-10'		30"	0-15": Brown, clay with some medium gravel 15"-30": Brown, medium to coarse sand with some gravel, dry, no odor.	
10		0.0	10'-15'		48"	Brown, medium to coarse sand with gravel, dry, no odor	
15		0.0	15'-20'		48"	Brown, medium to fine sand with gravel, dry, no odor	
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-3
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 3'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*(1'-3')	0.0	6"-5'		36"	Reddish brown, medium to fine sand with gravel, dry, no odor	
						Refusal at 3'	
5							
10							
15							
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-4
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Carloza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 3.5'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	#(1'-3')	0.0	0-3.5'		42"	Reddish brown, medium to fine sand, some gravel, dry, no odor
						Refusal at 3.5'
5						
10						
15						
20						

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-5
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 3'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*(1'-3')	0.0	0-5'		36"	Reddish brown, medium to fine sand with gravel and cobble, dry no odor	
						Refusal at 3'	
5							
10							
15							
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-6
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-14
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 3'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*(1'-3')	0.0	0-5'		36"	Reddish brown, medium to fine sand with gravel, dry, no odor	
						Refusal at 3'	
5							
10							
15							
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Beverly Rd., Brooklyn, NY
Boring Number: GP-1114-7
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 20'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
	*(2'-5')	0.0	0-5'		36"	Pre-clear to ~2': Brown to dark brown, medium to coarse sand with gravel, moist, no odor.	
5		0.0	5'-10'		48"	Dark brown to brown, clay. with gravel to medium to fine sand, moist, no odor.	
10		0.0	10'-15'		42"	Brown to reddish brown, medium to coarse sand with gravel, dry no odor.	
15			15'-20'		48"	Brown to reddish brown, medium to fine sand with gravel, dry no odor.	
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

EnviroTrac Ltd.
Subsurface Log:

Project Name: Sears Brooklyn
Location: 2307 Bergly Rd., Brooklyn, NY
Boring Number: GP-1114-8
Casing Elevation:
Screen Diameter: **Length:**
Casing Diameter: **Length:**
Drilling Method:

Owner:
Permit No.:
Log By: Victor Cardoza **Date:** 2-25-15
Driller: Associated **Borehole Dia.:**
Slot Size: **Depth to Water (Init.):**
Type: **Depth to Water (Static):**
Sample Method:

Construction Details

Total Boring Depth: 20'
Screen Length:
Sand Pack Type:
Cement/Grout Interval:
Completion Details:

Bentonite Interval:
Screened Interval:
Sand Pack Interval:
Riser Interval:

= Asphalt Patch
= Bentonite
= Grout
= PVC Riser
= PVC Screen
= Sandpack
= Cement

Depth (feet)	Sample	OVM (ppm)	Sample Interval	Blow Count	Recovery (Inches)	Lithology	Boring Schematic
		0.0	0-5'		24"	Pre-cleared to 2': Brown, medium to coarse to fine silty sand with gravel, moist, no odor.	
5	*(8'-10')	0.0	5'-10'		30"	Brown to dark brown, fine silty sand to medium to coarse sand with gravel, moist, no odor	
10		0.0	10'-15'		48"	Brown to reddish brown, medium to coarse sand with gravel, dry, no odor.	
15		0.0	15'-20'		48"	Reddish brown, medium to fine sand with trace small gravel, dry, no odor	
20							

ppm parts per million
HA Hand Augered
bgs below ground surface
NM Not measured
NA Not Applicable
NS Not Sampled
GP Geo-Probe

* Sample submitted for laboratory analysis

ATTACHMENT C

LABORATORY ANALYTICAL REPORT

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

Tax I.D. 62-0814289

Est. 1970

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 712
Chicago, IL 60654

Report Summary

Tuesday March 03, 2015

Report Number: L750695
Samples Received: 02/27/15
Client Project: 09.BBJ001.00

Description: Rhapsody (AWB) Brooklyn.Beverly RD NY

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

Entire Report Reviewed By: John Hawkins

John Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-01

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-1

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:30

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium,Hexavalent	U	0.64	2.1	mg/kg		3060A/71	03/01/15	1
ORP	160			mV		2580 B-2	03/03/15	1
pH	7.6	0.010		su		9045D	02/28/15	1
Total Solids	95.6	0.0333		%		2540 G-2	02/28/15	1
Mercury	0.022	0.0028	0.021	mg/kg		7471A	02/28/15	1
Arsenic	1.6	0.65	2.1	mg/kg	J	6010C	02/28/15	1
Barium	22.	0.17	0.52	mg/kg		6010C	02/28/15	1
Cadmium	U	0.070	0.52	mg/kg		6010C	02/28/15	1
Chromium	12.	0.14	1.0	mg/kg		6010C	03/01/15	1
Lead	19.	0.19	0.52	mg/kg		6010C	02/28/15	1
Selenium	U	0.74	2.1	mg/kg		6010C	02/28/15	1
Silver	U	0.28	1.0	mg/kg		6010C	02/28/15	1
Volatile Organics								
Acetone	0.038	0.010	0.052	mg/kg	J	8260C	03/02/15	1
Acrylonitrile	U	0.0018	0.010	mg/kg		8260C	03/02/15	1
Benzene	U	0.00027	0.0010	mg/kg		8260C	03/02/15	1
Bromobenzene	U	0.00028	0.0010	mg/kg		8260C	03/02/15	1
Bromodichloromethane	U	0.00025	0.0010	mg/kg		8260C	03/02/15	1
Bromoform	U	0.00042	0.0010	mg/kg		8260C	03/02/15	1
Bromomethane	U	0.0013	0.0052	mg/kg		8260C	03/02/15	1
n-Butylbenzene	U	0.00026	0.0010	mg/kg		8260C	03/02/15	1
sec-Butylbenzene	U	0.00020	0.0010	mg/kg		8260C	03/02/15	1
tert-Butylbenzene	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
Carbon tetrachloride	U	0.00033	0.0010	mg/kg		8260C	03/02/15	1
Chlorobenzene	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
Chlorodibromomethane	U	0.00037	0.0010	mg/kg		8260C	03/02/15	1
Chloroethane	U	0.00095	0.0052	mg/kg		8260C	03/02/15	1
2-Chloroethyl vinyl ether	U	0.0023	0.052	mg/kg		8260C	03/02/15	1
Chloroform	U	0.00023	0.0052	mg/kg		8260C	03/02/15	1
Chloromethane	U	0.00038	0.0026	mg/kg		8260C	03/02/15	1
2-Chlorotoluene	U	0.00030	0.0010	mg/kg		8260C	03/02/15	1
4-Chlorotoluene	U	0.00024	0.0010	mg/kg		8260C	03/02/15	1
1,2-Dibromo-3-Chloropropane	U	0.0010	0.0052	mg/kg		8260C	03/02/15	1
1,2-Dibromoethane	U	0.00034	0.0010	mg/kg		8260C	03/02/15	1
Dibromomethane	U	0.00038	0.0010	mg/kg		8260C	03/02/15	1
1,2-Dichlorobenzene	U	0.00030	0.0010	mg/kg		8260C	03/02/15	1
1,3-Dichlorobenzene	U	0.00024	0.0010	mg/kg		8260C	03/02/15	1

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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L750695-01 (PH) - 7.6@20.8c

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-01

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-1

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:30

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,4-Dichlorobenzene	U	0.00023	0.0010	mg/kg		8260C	03/02/15	1
Dichlorodifluoromethane	U	0.00071	0.0052	mg/kg		8260C	03/02/15	1
1,1-Dichloroethane	U	0.00020	0.0010	mg/kg		8260C	03/02/15	1
1,2-Dichloroethane	U	0.00026	0.0010	mg/kg		8260C	03/02/15	1
1,1-Dichloroethene	U	0.00030	0.0010	mg/kg		8260C	03/02/15	1
cis-1,2-Dichloroethene	U	0.00024	0.0010	mg/kg		8260C	03/02/15	1
trans-1,2-Dichloroethene	U	0.00026	0.0010	mg/kg		8260C	03/02/15	1
1,2-Dichloropropane	U	0.00036	0.0010	mg/kg		8260C	03/02/15	1
1,1-Dichloropropene	U	0.00032	0.0010	mg/kg		8260C	03/02/15	1
1,3-Dichloropropane	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
cis-1,3-Dichloropropene	U	0.00026	0.0010	mg/kg		8260C	03/02/15	1
trans-1,3-Dichloropropene	U	0.00027	0.0010	mg/kg		8260C	03/02/15	1
2,2-Dichloropropane	U	0.00028	0.0010	mg/kg		8260C	03/02/15	1
Di-isopropyl ether	U	0.00025	0.0010	mg/kg		8260C	03/02/15	1
Ethylbenzene	U	0.00030	0.0010	mg/kg		8260C	03/02/15	1
Hexachloro-1,3-butadiene	U	0.00034	0.0010	mg/kg		8260C	03/02/15	1
Isopropylbenzene	U	0.00024	0.0010	mg/kg		8260C	03/02/15	1
p-Isopropyltoluene	U	0.00020	0.0010	mg/kg		8260C	03/03/15	1
2-Butanone (MEK)	0.0064	0.0047	0.010	mg/kg	J	8260C	03/02/15	1
Methylene Chloride	U	0.0010	0.0052	mg/kg		8260C	03/02/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0019	0.010	mg/kg		8260C	03/02/15	1
Methyl tert-butyl ether	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
Naphthalene	U	0.0010	0.0052	mg/kg		8260C	03/02/15	1
n-Propylbenzene	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
Styrene	U	0.00023	0.0010	mg/kg		8260C	03/02/15	1
1,1,1,2-Tetrachloroethane	U	0.00026	0.0010	mg/kg		8260C	03/02/15	1
1,1,2,2-Tetrachloroethane	U	0.00036	0.0010	mg/kg		8260C	03/02/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00036	0.0010	mg/kg		8260C	03/02/15	1
Tetrachloroethene	0.00034	0.00028	0.0010	mg/kg	J	8260C	03/02/15	1
Toluene	U	0.00043	0.0052	mg/kg		8260C	03/02/15	1
1,2,3-Trichlorobenzene	U	0.00031	0.0010	mg/kg		8260C	03/02/15	1
1,2,4-Trichlorobenzene	U	0.00039	0.0010	mg/kg		8260C	03/02/15	1
1,1,1-Trichloroethane	U	0.00029	0.0010	mg/kg		8260C	03/02/15	1
1,1,2-Trichloroethane	U	0.00028	0.0010	mg/kg		8260C	03/02/15	1
Trichloroethene	U	0.00028	0.0010	mg/kg		8260C	03/02/15	1
Trichlorofluoromethane	U	0.00038	0.0052	mg/kg		8260C	03/02/15	1
1,2,3-Trichloropropane	U	0.00074	0.0026	mg/kg		8260C	03/02/15	1
1,2,4-Trimethylbenzene	U	0.00021	0.0010	mg/kg		8260C	03/02/15	1
1,2,3-Trimethylbenzene	U	0.00029	0.0010	mg/kg		8260C	03/02/15	1
Vinyl chloride	U	0.00029	0.0010	mg/kg		8260C	03/02/15	1
1,3,5-Trimethylbenzene	U	0.00027	0.0010	mg/kg		8260C	03/02/15	1
Xylenes, Total	U	0.00070	0.0031	mg/kg		8260C	03/02/15	1
Surrogate Recovery								

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-01

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-1

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:30

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Toluene-d8	100.			% Rec.		8260C	03/02/15	1
Dibromofluoromethane	103.			% Rec.		8260C	03/02/15	1
4-Bromofluorobenzene	91.9			% Rec.		8260C	03/02/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.029	0.0073	0.034	mg/kg	J	8270D	02/28/15	1
Acenaphthylene	U	0.0075	0.034	mg/kg		8270D	02/28/15	1
Acenaphthene	0.012	0.0074	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(a)anthracene	0.10	0.0066	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)pyrene	0.097	0.0050	0.034	mg/kg		8270D	02/28/15	1
Benzo(b)fluoranthene	0.12	0.0077	0.034	mg/kg		8270D	02/28/15	1
Benzo(g,h,i)perylene	0.064	0.0072	0.034	mg/kg		8270D	02/28/15	1
Benzo(k)fluoranthene	0.040	0.0051	0.034	mg/kg		8270D	02/28/15	1
Chrysene	0.095	0.0078	0.034	mg/kg		8270D	02/28/15	1
Dibenz(a,h)anthracene	0.016	0.0059	0.034	mg/kg	J	8270D	02/28/15	1
Fluoranthene	0.19	0.0071	0.034	mg/kg		8270D	02/28/15	1
Fluorene	0.0092	0.0072	0.034	mg/kg	J	8270D	02/28/15	1
Indeno(1,2,3-cd)pyrene	0.058	0.0056	0.034	mg/kg		8270D	02/28/15	1
Naphthalene	0.0082	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Phenanthrene	0.10	0.0071	0.034	mg/kg		8270D	02/28/15	1
Pyrene	0.19	0.0078	0.034	mg/kg		8270D	02/28/15	1
Surrogate Recovery								
Nitrobenzene-d5	86.8			% Rec.		8270D	02/28/15	1
2-Fluorobiphenyl	78.0			% Rec.		8270D	02/28/15	1
p-Terphenyl-d14	85.2			% Rec.		8270D	02/28/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.018	mg/kg	J3	8082	03/02/15	1
PCB 1221	U	0.0054	0.018	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.018	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.018	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.018	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.018	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.018	mg/kg	J3	8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	70.7			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	85.6			% Rec.		8082	03/02/15	1

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-02

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-2

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 15:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium,Hexavalent	U	0.64	2.3	mg/kg		3060A/71	03/01/15	1
ORP	160			mV		2580 B-2	03/03/15	1
pH	7.8	0.010		su		9045D	02/28/15	1
Total Solids	86.8	0.0333		%		2540 G-2	02/28/15	1
Mercury	0.078	0.0028	0.023	mg/kg		7471A	02/28/15	1
Arsenic	3.7	0.65	2.3	mg/kg		6010C	02/28/15	1
Barium	46.	0.17	0.58	mg/kg		6010C	02/28/15	1
Cadmium	0.13	0.070	0.58	mg/kg	J	6010C	02/28/15	1
Chromium	12.	0.14	1.2	mg/kg		6010C	03/01/15	1
Lead	70.	0.19	0.58	mg/kg		6010C	02/28/15	1
Selenium	U	0.74	2.3	mg/kg		6010C	02/28/15	1
Silver	U	0.28	1.2	mg/kg		6010C	02/28/15	1
Volatile Organics								
Acetone	0.047	0.010	0.058	mg/kg	J	8260C	03/02/15	1
Acrylonitrile	U	0.0018	0.012	mg/kg		8260C	03/02/15	1
Benzene	U	0.00027	0.0012	mg/kg		8260C	03/02/15	1
Bromobenzene	U	0.00028	0.0012	mg/kg		8260C	03/02/15	1
Bromodichloromethane	U	0.00025	0.0012	mg/kg		8260C	03/02/15	1
Bromoform	U	0.00042	0.0012	mg/kg		8260C	03/02/15	1
Bromomethane	U	0.0013	0.0058	mg/kg		8260C	03/02/15	1
n-Butylbenzene	U	0.00026	0.0012	mg/kg		8260C	03/02/15	1
sec-Butylbenzene	U	0.00020	0.0012	mg/kg		8260C	03/02/15	1
tert-Butylbenzene	U	0.00021	0.0012	mg/kg		8260C	03/02/15	1
Carbon tetrachloride	U	0.00033	0.0012	mg/kg		8260C	03/02/15	1
Chlorobenzene	U	0.00021	0.0012	mg/kg		8260C	03/02/15	1
Chlorodibromomethane	U	0.00037	0.0012	mg/kg		8260C	03/02/15	1
Chloroethane	U	0.00095	0.0058	mg/kg		8260C	03/02/15	1
2-Chloroethyl vinyl ether	U	0.0023	0.058	mg/kg		8260C	03/02/15	1
Chloroform	U	0.00023	0.0058	mg/kg		8260C	03/02/15	1
Chloromethane	U	0.00038	0.0029	mg/kg		8260C	03/02/15	1
2-Chlorotoluene	U	0.00030	0.0012	mg/kg		8260C	03/02/15	1
4-Chlorotoluene	U	0.00024	0.0012	mg/kg		8260C	03/02/15	1
1,2-Dibromo-3-Chloropropane	U	0.0010	0.0058	mg/kg		8260C	03/02/15	1
1,2-Dibromoethane	U	0.00034	0.0012	mg/kg		8260C	03/02/15	1
Dibromomethane	U	0.00038	0.0012	mg/kg		8260C	03/02/15	1
1,2-Dichlorobenzene	U	0.00030	0.0012	mg/kg		8260C	03/02/15	1
1,3-Dichlorobenzene	U	0.00024	0.0012	mg/kg		8260C	03/02/15	1

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-02

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-2

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 15:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,4-Dichlorobenzene	U	0.00023	0.0012	mg/kg		8260C	03/02/15	1
Dichlorodifluoromethane	U	0.00071	0.0058	mg/kg		8260C	03/02/15	1
1,1-Dichloroethane	U	0.00020	0.0012	mg/kg		8260C	03/02/15	1
1,2-Dichloroethane	U	0.00026	0.0012	mg/kg		8260C	03/02/15	1
1,1-Dichloroethene	U	0.00030	0.0012	mg/kg		8260C	03/02/15	1
cis-1,2-Dichloroethene	U	0.00024	0.0012	mg/kg		8260C	03/02/15	1
trans-1,2-Dichloroethene	U	0.00026	0.0012	mg/kg		8260C	03/02/15	1
1,2-Dichloropropane	U	0.00036	0.0012	mg/kg		8260C	03/02/15	1
1,1-Dichloropropene	U	0.00032	0.0012	mg/kg		8260C	03/02/15	1
1,3-Dichloropropane	U	0.00021	0.0012	mg/kg		8260C	03/02/15	1
cis-1,3-Dichloropropene	U	0.00026	0.0012	mg/kg		8260C	03/02/15	1
trans-1,3-Dichloropropene	U	0.00027	0.0012	mg/kg		8260C	03/02/15	1
2,2-Dichloropropane	U	0.00028	0.0012	mg/kg		8260C	03/02/15	1
Di-isopropyl ether	U	0.00025	0.0012	mg/kg		8260C	03/02/15	1
Ethylbenzene	U	0.00030	0.0012	mg/kg		8260C	03/02/15	1
Hexachloro-1,3-butadiene	U	0.00034	0.0012	mg/kg		8260C	03/02/15	1
Isopropylbenzene	U	0.00024	0.0012	mg/kg		8260C	03/02/15	1
p-Isopropyltoluene	U	0.00020	0.0012	mg/kg		8260C	03/02/15	1
2-Butanone (MEK)	0.0058	0.0047	0.012	mg/kg	J	8260C	03/02/15	1
Methylene Chloride	U	0.0010	0.0058	mg/kg		8260C	03/02/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0019	0.012	mg/kg		8260C	03/02/15	1
Methyl tert-butyl ether	U	0.00021	0.0012	mg/kg		8260C	03/02/15	1
Naphthalene	0.17	0.0010	0.0058	mg/kg		8260C	03/02/15	1
n-Propylbenzene	U	0.00021	0.0012	mg/kg		8260C	03/02/15	1
Styrene	U	0.00023	0.0012	mg/kg		8260C	03/02/15	1
1,1,1,2-Tetrachloroethane	U	0.00026	0.0012	mg/kg		8260C	03/02/15	1
1,1,2,2-Tetrachloroethane	U	0.00036	0.0012	mg/kg		8260C	03/02/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00036	0.0012	mg/kg		8260C	03/02/15	1
Tetrachloroethene	U	0.00028	0.0012	mg/kg		8260C	03/02/15	1
Toluene	U	0.00043	0.0058	mg/kg		8260C	03/02/15	1
1,2,3-Trichlorobenzene	U	0.00031	0.0012	mg/kg		8260C	03/02/15	1
1,2,4-Trichlorobenzene	U	0.00039	0.0012	mg/kg		8260C	03/02/15	1
1,1,1-Trichloroethane	U	0.00029	0.0012	mg/kg		8260C	03/02/15	1
1,1,2-Trichloroethane	U	0.00028	0.0012	mg/kg		8260C	03/02/15	1
Trichloroethene	U	0.00028	0.0012	mg/kg		8260C	03/02/15	1
Trichlorofluoromethane	U	0.00038	0.0058	mg/kg		8260C	03/02/15	1
1,2,3-Trichloropropane	U	0.00074	0.0029	mg/kg		8260C	03/02/15	1
1,2,4-Trimethylbenzene	0.00091	0.00021	0.0012	mg/kg	J	8260C	03/02/15	1
1,2,3-Trimethylbenzene	0.00058	0.00029	0.0012	mg/kg	J	8260C	03/02/15	1
Vinyl chloride	U	0.00029	0.0012	mg/kg		8260C	03/02/15	1
1,3,5-Trimethylbenzene	0.00056	0.00027	0.0012	mg/kg	J	8260C	03/02/15	1
Xylenes, Total	U	0.00070	0.0034	mg/kg		8260C	03/02/15	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-02

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-2

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 15:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Toluene-d8	103.			% Rec.		8260C	03/02/15	1
Dibromofluoromethane	102.			% Rec.		8260C	03/02/15	1
4-Bromofluorobenzene	97.7			% Rec.		8260C	03/02/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	20.	0.073	0.38	mg/kg		8270D	02/28/15	10
Acenaphthylene	0.10	0.075	0.38	mg/kg	J	8270D	02/28/15	10
Acenaphthene	8.5	0.074	0.38	mg/kg		8270D	02/28/15	10
Benzo(a)anthracene	36.	0.066	0.38	mg/kg		8270D	02/28/15	10
Benzo(a)pyrene	32.	0.050	0.38	mg/kg		8270D	02/28/15	10
Benzo(b)fluoranthene	34.	0.077	0.38	mg/kg		8270D	02/28/15	10
Benzo(g,h,i)perylene	17.	0.072	0.38	mg/kg		8270D	02/28/15	10
Benzo(k)fluoranthene	11.	0.051	0.38	mg/kg		8270D	02/28/15	10
Chrysene	29.	0.078	0.38	mg/kg		8270D	02/28/15	10
Dibenz(a,h)anthracene	4.1	0.059	0.38	mg/kg		8270D	02/28/15	10
Fluoranthene	86.	0.35	1.9	mg/kg		8270D	03/02/15	50
Fluorene	11.	0.072	0.38	mg/kg		8270D	02/28/15	10
Indeno(1,2,3-cd)pyrene	15.	0.056	0.38	mg/kg		8270D	02/28/15	10
Naphthalene	6.6	0.051	0.38	mg/kg		8270D	02/28/15	10
Phenanthrene	76.	0.36	1.9	mg/kg		8270D	03/02/15	50
Pyrene	76.	0.39	1.9	mg/kg		8270D	03/02/15	50
Surrogate Recovery								
Nitrobenzene-d5	74.9			% Rec.		8270D	02/28/15	10
2-Fluorobiphenyl	67.5			% Rec.		8270D	02/28/15	10
p-Terphenyl-d14	74.2			% Rec.		8270D	02/28/15	10
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.020	mg/kg	J3	8082	03/02/15	1
PCB 1221	U	0.0054	0.020	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.020	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.020	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.020	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.020	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.020	mg/kg	J3	8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	26.0			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	74.5			% Rec.		8082	03/02/15	1

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-03

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-3

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	98.0	0.0333		%		2540 G-2	02/28/15	1
TPH (GC/FID) Low Fraction	U	0.022	0.10	mg/kg		8015D/GR	03/02/15	1
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene(FID)	97.0			% Rec.		8015D/GR	03/02/15	1
TPH (GC/FID) High Fraction	1.1	0.77	4.1	mg/kg	J	3546/DRO	03/01/15	1
Surrogate recovery(%)								
o-Terphenyl	56.7			% Rec.		3546/DRO	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0073	0.034	mg/kg		8270D	02/28/15	1
Acenaphthylene	U	0.0075	0.034	mg/kg		8270D	02/28/15	1
Acenaphthene	U	0.0074	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)anthracene	0.028	0.0066	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(a)pyrene	0.026	0.0050	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(b)fluoranthene	0.030	0.0077	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(g,h,i)perylene	0.019	0.0072	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(k)fluoranthene	0.010	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Chrysene	0.026	0.0078	0.034	mg/kg	J	8270D	02/28/15	1
Dibenz(a,h)anthracene	U	0.0059	0.034	mg/kg		8270D	02/28/15	1
Fluoranthene	0.044	0.0071	0.034	mg/kg		8270D	02/28/15	1
Fluorene	U	0.0072	0.034	mg/kg		8270D	02/28/15	1
Indeno(1,2,3-cd)pyrene	0.016	0.0056	0.034	mg/kg	J	8270D	02/28/15	1
Naphthalene	U	0.0051	0.034	mg/kg		8270D	02/28/15	1
Phenanthrene	0.024	0.0071	0.034	mg/kg	J	8270D	02/28/15	1
Pyrene	0.051	0.0078	0.034	mg/kg		8270D	02/28/15	1
Surrogate Recovery								
Nitrobenzene-d5	81.2			% Rec.		8270D	02/28/15	1
2-Fluorobiphenyl	74.0			% Rec.		8270D	02/28/15	1
p-Terphenyl-d14	82.0			% Rec.		8270D	02/28/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.017	mg/kg	J3	8082	03/02/15	1
PCB 1221	U	0.0054	0.017	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.017	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.017	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.017	mg/kg	J3	8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	85.5			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	94.0			% Rec.		8082	03/02/15	1

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

Date Received : February 27, 2015
Description : Sears 1114

ESC Sample # : L750695-04

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-4

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 10:10

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	97.4	0.0333		%		2540 G-2	02/28/15	1
TPH (GC/FID) Low Fraction	U	0.022	0.10	mg/kg		8015D/GR	03/02/15	1
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene(FID)	96.9			% Rec.		8015D/GR	03/02/15	1
TPH (GC/FID) High Fraction	3.9	0.77	4.1	mg/kg	J	3546/DRO	03/01/15	1
Surrogate recovery(%)								
o-Terphenyl	107.			% Rec.		3546/DRO	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0073	0.034	mg/kg		8270D	02/28/15	1
Acenaphthylene	U	0.0075	0.034	mg/kg		8270D	02/28/15	1
Acenaphthene	U	0.0074	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)anthracene	0.020	0.0066	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(a)pyrene	0.018	0.0050	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(b)fluoranthene	0.020	0.0077	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(g,h,i)perylene	0.012	0.0072	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(k)fluoranthene	0.0093	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Chrysene	0.020	0.0078	0.034	mg/kg	J	8270D	02/28/15	1
Dibenz(a,h)anthracene	U	0.0059	0.034	mg/kg		8270D	02/28/15	1
Fluoranthene	0.035	0.0071	0.034	mg/kg		8270D	02/28/15	1
Fluorene	U	0.0072	0.034	mg/kg		8270D	02/28/15	1
Indeno(1,2,3-cd)pyrene	0.011	0.0056	0.034	mg/kg	J	8270D	02/28/15	1
Naphthalene	U	0.0051	0.034	mg/kg		8270D	02/28/15	1
Phenanthrene	0.018	0.0071	0.034	mg/kg	J	8270D	02/28/15	1
Pyrene	0.037	0.0078	0.034	mg/kg		8270D	02/28/15	1
Surrogate Recovery								
Nitrobenzene-d5	84.8			% Rec.		8270D	02/28/15	1
2-Fluorobiphenyl	78.3			% Rec.		8270D	02/28/15	1
p-Terphenyl-d14	83.6			% Rec.		8270D	02/28/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.017	mg/kg		8082	03/02/15	1
PCB 1221	U	0.0054	0.017	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.017	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.017	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.017	mg/kg		8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	78.6			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	91.2			% Rec.		8082	03/02/15	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-05

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-5

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 11:35

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	96.7	0.0333		%		2540 G-2	02/28/15	1
TPH (GC/FID) Low Fraction	U	0.022	0.10	mg/kg		8015D/GR	03/02/15	1
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene(FID)	96.9			% Rec.		8015D/GR	03/02/15	1
TPH (GC/FID) High Fraction	2.0	0.77	4.1	mg/kg	J	3546/DRO	03/01/15	1
Surrogate recovery(%)								
o-Terphenyl	88.6			% Rec.		3546/DRO	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.033	0.0073	0.034	mg/kg	J	8270D	02/28/15	1
Acenaphthylene	U	0.0075	0.034	mg/kg		8270D	02/28/15	1
Acenaphthene	0.012	0.0074	0.034	mg/kg	J	8270D	02/28/15	1
Benzo(a)anthracene	0.11	0.0066	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)pyrene	0.11	0.0050	0.034	mg/kg		8270D	02/28/15	1
Benzo(b)fluoranthene	0.12	0.0077	0.034	mg/kg		8270D	02/28/15	1
Benzo(g,h,i)perylene	0.073	0.0072	0.034	mg/kg		8270D	02/28/15	1
Benzo(k)fluoranthene	0.044	0.0051	0.034	mg/kg		8270D	02/28/15	1
Chrysene	0.10	0.0078	0.034	mg/kg		8270D	02/28/15	1
Dibenz(a,h)anthracene	0.018	0.0059	0.034	mg/kg	J	8270D	02/28/15	1
Fluoranthene	0.21	0.0071	0.034	mg/kg		8270D	02/28/15	1
Fluorene	0.010	0.0072	0.034	mg/kg	J	8270D	02/28/15	1
Indeno(1,2,3-cd)pyrene	0.061	0.0056	0.034	mg/kg		8270D	02/28/15	1
Naphthalene	0.0076	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Phenanthrene	0.12	0.0071	0.034	mg/kg		8270D	02/28/15	1
Pyrene	0.22	0.0078	0.034	mg/kg		8270D	02/28/15	1
Surrogate Recovery								
Nitrobenzene-d5	84.4			% Rec.		8270D	02/28/15	1
2-Fluorobiphenyl	77.1			% Rec.		8270D	02/28/15	1
p-Terphenyl-d14	82.1			% Rec.		8270D	02/28/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.018	mg/kg	J3	8082	03/02/15	1
PCB 1221	U	0.0054	0.018	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.018	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.018	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.018	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.018	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.018	mg/kg	J3	8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	70.0			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	84.7			% Rec.		8082	03/02/15	1

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

ESC Sample # : L750695-06

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : GP-1114-6

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 12:07

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	97.8	0.0333		%		2540 G-2	02/28/15	1
TPH (GC/FID) Low Fraction	U	0.022	0.10	mg/kg		8015D/GR	03/02/15	1
Surrogate Recovery (70-130)								
a,a,a-Trifluorotoluene(FID)	97.4			% Rec.		8015D/GR	03/02/15	1
TPH (GC/FID) High Fraction	13.	0.77	4.1	mg/kg		3546/DRO	03/01/15	1
Surrogate recovery(%)								
o-Terphenyl	111.			% Rec.		3546/DRO	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.013	0.0073	0.034	mg/kg	J	8270D	02/28/15	1
Acenaphthylene	U	0.0075	0.034	mg/kg		8270D	02/28/15	1
Acenaphthene	U	0.0074	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)anthracene	0.062	0.0066	0.034	mg/kg		8270D	02/28/15	1
Benzo(a)pyrene	0.059	0.0050	0.034	mg/kg		8270D	02/28/15	1
Benzo(b)fluoranthene	0.068	0.0077	0.034	mg/kg		8270D	02/28/15	1
Benzo(g,h,i)perylene	0.041	0.0072	0.034	mg/kg		8270D	02/28/15	1
Benzo(k)fluoranthene	0.021	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Chrysene	0.067	0.0078	0.034	mg/kg		8270D	02/28/15	1
Dibenz(a,h)anthracene	0.0098	0.0059	0.034	mg/kg	J	8270D	02/28/15	1
Fluoranthene	0.10	0.0071	0.034	mg/kg		8270D	02/28/15	1
Fluorene	U	0.0072	0.034	mg/kg		8270D	02/28/15	1
Indeno(1,2,3-cd)pyrene	0.032	0.0056	0.034	mg/kg	J	8270D	02/28/15	1
Naphthalene	0.0075	0.0051	0.034	mg/kg	J	8270D	02/28/15	1
Phenanthrene	0.050	0.0071	0.034	mg/kg		8270D	02/28/15	1
Pyrene	0.12	0.0078	0.034	mg/kg		8270D	02/28/15	1
Surrogate Recovery								
Nitrobenzene-d5	83.9			% Rec.		8270D	02/28/15	1
2-Fluorobiphenyl	75.4			% Rec.		8270D	02/28/15	1
p-Terphenyl-d14	83.8			% Rec.		8270D	02/28/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.0065	0.017	mg/kg	J3	8082	03/02/15	1
PCB 1221	U	0.0054	0.017	mg/kg		8082	03/02/15	1
PCB 1232	U	0.0042	0.017	mg/kg		8082	03/02/15	1
PCB 1242	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1248	U	0.0032	0.017	mg/kg		8082	03/02/15	1
PCB 1254	U	0.0047	0.017	mg/kg		8082	03/02/15	1
PCB 1260	U	0.0049	0.017	mg/kg	J3	8082	03/02/15	1
PCBs Surrogates								
Decachlorobiphenyl	82.6			% Rec.		8082	03/02/15	1
Tetrachloro-m-xylene	96.7			% Rec.		8082	03/02/15	1

Results listed are dry weight basis.
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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03,2015

Date Received : February 27, 2015
Description : Sears 1114

Sample ID : GP-1114-7

Collected By : Victoria A Carada
Collection Date : 02/25/15 17:27

ESC Sample # : L750695-07

Site ID : BROOKLYN/BEVERLY RD N

Project # : 09.BBJ001.00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	90.3	0.0333		%		2540 G-2	02/28/15	1
Benzene	U	0.00012	0.00050	mg/kg	J6J3	8021B	03/03/15	1
Toluene	U	0.00015	0.0050	mg/kg	J6J3	8021B	03/03/15	1
Ethylbenzene	U	0.00011	0.00050	mg/kg	J6J3	8021B	03/03/15	1
Total Xylene	U	0.00046	0.0015	mg/kg	J3J6	8021B	03/03/15	1
Surrogate Recovery(%)								
a,a,a-Trifluorotoluene(PID)	97.3			% Rec.		8021B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.20	0.036	0.18	mg/kg		8270D	02/28/15	5
Acenaphthylene	U	0.038	0.18	mg/kg		8270D	02/28/15	5
Acenaphthene	U	0.037	0.18	mg/kg		8270D	02/28/15	5
Benzo(a)anthracene	0.71	0.033	0.18	mg/kg		8270D	02/28/15	5
Benzo(a)pyrene	0.69	0.025	0.18	mg/kg		8270D	02/28/15	5
Benzo(b)fluoranthene	0.81	0.038	0.18	mg/kg		8270D	02/28/15	5
Benzo(g,h,i)perylene	0.44	0.036	0.18	mg/kg		8270D	02/28/15	5
Benzo(k)fluoranthene	0.26	0.025	0.18	mg/kg		8270D	02/28/15	5
Chrysene	0.64	0.039	0.18	mg/kg		8270D	02/28/15	5
Dibenz(a,h)anthracene	0.11	0.030	0.18	mg/kg	J	8270D	02/28/15	5
Fluoranthene	1.3	0.035	0.18	mg/kg		8270D	02/28/15	5
Fluorene	U	0.036	0.18	mg/kg		8270D	02/28/15	5
Indeno(1,2,3-cd)pyrene	0.40	0.028	0.18	mg/kg		8270D	02/28/15	5
Naphthalene	0.049	0.026	0.18	mg/kg	J	8270D	02/28/15	5
Phenanthrene	0.46	0.036	0.18	mg/kg		8270D	02/28/15	5
Pyrene	1.2	0.039	0.18	mg/kg		8270D	02/28/15	5
Surrogate Recovery								
Nitrobenzene-d5	83.7			% Rec.		8270D	02/28/15	5
2-Fluorobiphenyl	76.3			% Rec.		8270D	02/28/15	5
p-Terphenyl-d14	80.1			% Rec.		8270D	02/28/15	5

Results listed are dry weight basis.
U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03, 2015

Date Received : February 27, 2015
Description : Sears 1114

Sample ID : GP-1114-8

Collected By : Victoria A Carada
Collection Date : 02/25/15 16:05

ESC Sample # : L750695-08

Site ID : BROOKLYN/BEVERLY RD N

Project # : 09.BBJ001.00

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	89.7	0.0333		%		2540 G-2	02/28/15	1
Benzene	U	0.00012	0.00050	mg/kg		8021B	03/03/15	1
Toluene	U	0.00015	0.0050	mg/kg		8021B	03/03/15	1
Ethylbenzene	U	0.00011	0.00050	mg/kg		8021B	03/03/15	1
Total Xylene	U	0.00046	0.0015	mg/kg		8021B	03/03/15	1
Surrogate Recovery(%)								
a,a,a-Trifluorotoluene(PID)	97.6			% Rec.		8021B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.036	0.18	mg/kg		8270D	02/28/15	5
Acenaphthylene	U	0.038	0.18	mg/kg		8270D	02/28/15	5
Acenaphthene	U	0.037	0.18	mg/kg		8270D	02/28/15	5
Benzo(a)anthracene	U	0.033	0.18	mg/kg		8270D	02/28/15	5
Benzo(a)pyrene	0.030	0.025	0.18	mg/kg	J	8270D	02/28/15	5
Benzo(b)fluoranthene	U	0.038	0.18	mg/kg		8270D	02/28/15	5
Benzo(g,h,i)perylene	0.044	0.036	0.18	mg/kg	J	8270D	02/28/15	5
Benzo(k)fluoranthene	U	0.025	0.18	mg/kg		8270D	02/28/15	5
Chrysene	U	0.039	0.18	mg/kg		8270D	02/28/15	5
Dibenz(a,h)anthracene	U	0.030	0.18	mg/kg		8270D	02/28/15	5
Fluoranthene	0.044	0.035	0.18	mg/kg	J	8270D	02/28/15	5
Fluorene	U	0.036	0.18	mg/kg		8270D	02/28/15	5
Indeno(1,2,3-cd)pyrene	U	0.028	0.18	mg/kg		8270D	02/28/15	5
Naphthalene	0.032	0.026	0.18	mg/kg	J	8270D	02/28/15	5
Phenanthrene	U	0.036	0.18	mg/kg		8270D	02/28/15	5
Pyrene	0.047	0.039	0.18	mg/kg	J	8270D	02/28/15	5
Surrogate Recovery								
Nitrobenzene-d5	90.7			% Rec.		8270D	02/28/15	5
2-Fluorobiphenyl	80.9			% Rec.		8270D	02/28/15	5
p-Terphenyl-d14	85.9			% Rec.		8270D	02/28/15	5

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03, 2015

ESC Sample # : L750695-09

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : RINSATE-1114-1

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Hexavalent Chromium-Low Level	0.37	0.020	0.060	ug/l		7199	03/02/15	1
pH	8.2			su	T8	9040C	03/02/15	1
Mercury	U	0.049	0.20	ug/l		7470A	03/02/15	1
Arsenic	U	6.5	20.	ug/l		6010B	02/27/15	1
Barium	U	1.7	5.0	ug/l		6010B	02/27/15	1
Cadmium	U	0.70	5.0	ug/l		6010B	02/27/15	1
Chromium	U	1.4	10.	ug/l		6010B	02/27/15	1
Lead	U	1.9	5.0	ug/l		6010B	02/27/15	1
Selenium	U	7.4	20.	ug/l		6010B	02/27/15	1
Silver	U	2.8	10.	ug/l		6010B	02/27/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.037	1.0	ug/l		8270D	03/02/15	1
Acenaphthylene	U	0.026	1.0	ug/l		8270D	03/02/15	1
Acenaphthene	U	0.068	1.0	ug/l		8270D	03/02/15	1
Benzo(a)anthracene	U	0.033	1.0	ug/l		8270D	03/02/15	1
Benzo(a)pyrene	U	0.038	1.0	ug/l		8270D	03/02/15	1
Benzo(b)fluoranthene	U	0.073	1.0	ug/l		8270D	03/02/15	1
Benzo(g,h,i)perylene	U	0.12	1.0	ug/l		8270D	03/02/15	1
Benzo(k)fluoranthene	U	0.038	1.0	ug/l		8270D	03/02/15	1
Chrysene	U	0.052	1.0	ug/l		8270D	03/02/15	1
Dibenz(a,h)anthracene	U	0.064	1.0	ug/l		8270D	03/02/15	1
Fluoranthene	U	0.089	1.0	ug/l		8270D	03/02/15	1
Fluorene	U	0.066	1.0	ug/l		8270D	03/02/15	1
Indeno(1,2,3-cd)pyrene	U	0.066	1.0	ug/l		8270D	03/02/15	1
Naphthalene	U	0.030	1.0	ug/l		8270D	03/02/15	1
Phenanthrene	U	0.055	1.0	ug/l		8270D	03/02/15	1
Pyrene	U	0.062	1.0	ug/l		8270D	03/02/15	1
Surrogate Recovery								
Nitrobenzene-d5	106.			% Rec.		8270D	03/02/15	1
2-Fluorobiphenyl	95.3			% Rec.		8270D	03/02/15	1
p-Terphenyl-d14	105.			% Rec.		8270D	03/02/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082	02/28/15	1
PCB 1221	U	0.073	0.50	ug/l		8082	02/28/15	1
PCB 1232	U	0.042	0.50	ug/l		8082	02/28/15	1
PCB 1242	U	0.047	0.50	ug/l		8082	02/28/15	1
PCB 1248	U	0.086	0.50	ug/l		8082	02/28/15	1
PCB 1254	U	0.047	0.50	ug/l		8082	02/28/15	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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L750695-09 (PH) - 8.2@20.8c

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03, 2015

ESC Sample # : L750695-09

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : RINSATE-1114-1

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 13:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
PCB 1260	U	0.12	0.50	ug/l		8082	02/28/15	1
PCBs Surrogates								
Decachlorobiphenyl	76.5			% Rec.		8082	02/28/15	1
Tetrachloro-m-xylene	74.5			% Rec.		8082	02/28/15	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03, 2015

Date Received : February 27, 2015
Description : Sears 1114

Sample ID : RINSATE-1114-2

Collected By : Victoria A Carada
Collection Date : 02/25/15 15:05

ESC Sample # : L750695-10

Site ID : BROOKLYN/BEVERLY RD N

Project # : 09.BBJ001.00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Hexavalent Chromium-Low Level	0.36	0.020	0.060	ug/l		7199	03/02/15	1
pH	8.0			su	T8	9040C	03/02/15	1
Mercury	U	0.049	0.20	ug/l		7470A	03/02/15	1
Arsenic	U	6.5	20.	ug/l		6010B	02/27/15	1
Barium	U	1.7	5.0	ug/l		6010B	02/27/15	1
Cadmium	U	0.70	5.0	ug/l		6010B	02/27/15	1
Chromium	U	1.4	10.	ug/l		6010B	02/27/15	1
Lead	U	1.9	5.0	ug/l		6010B	02/27/15	1
Selenium	U	7.4	20.	ug/l		6010B	02/27/15	1
Silver	U	2.8	10.	ug/l		6010B	02/27/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.037	1.0	ug/l		8270D	03/02/15	1
Acenaphthylene	U	0.026	1.0	ug/l		8270D	03/02/15	1
Acenaphthene	U	0.068	1.0	ug/l		8270D	03/02/15	1
Benzo(a)anthracene	U	0.033	1.0	ug/l		8270D	03/02/15	1
Benzo(a)pyrene	U	0.038	1.0	ug/l		8270D	03/02/15	1
Benzo(b)fluoranthene	U	0.073	1.0	ug/l		8270D	03/02/15	1
Benzo(g,h,i)perylene	U	0.12	1.0	ug/l		8270D	03/02/15	1
Benzo(k)fluoranthene	U	0.038	1.0	ug/l		8270D	03/02/15	1
Chrysene	U	0.052	1.0	ug/l		8270D	03/02/15	1
Dibenz(a,h)anthracene	U	0.064	1.0	ug/l		8270D	03/02/15	1
Fluoranthene	U	0.089	1.0	ug/l		8270D	03/02/15	1
Fluorene	U	0.066	1.0	ug/l		8270D	03/02/15	1
Indeno(1,2,3-cd)pyrene	U	0.066	1.0	ug/l		8270D	03/02/15	1
Naphthalene	U	0.030	1.0	ug/l		8270D	03/02/15	1
Phenanthrene	U	0.055	1.0	ug/l		8270D	03/02/15	1
Pyrene	U	0.062	1.0	ug/l		8270D	03/02/15	1
Surrogate Recovery								
Nitrobenzene-d5	101.			% Rec.		8270D	03/02/15	1
2-Fluorobiphenyl	93.0			% Rec.		8270D	03/02/15	1
p-Terphenyl-d14	98.9			% Rec.		8270D	03/02/15	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082	02/28/15	1
PCB 1221	U	0.073	0.50	ug/l		8082	02/28/15	1
PCB 1232	U	0.042	0.50	ug/l		8082	02/28/15	1
PCB 1242	U	0.047	0.50	ug/l		8082	02/28/15	1
PCB 1248	U	0.086	0.50	ug/l		8082	02/28/15	1
PCB 1254	U	0.047	0.50	ug/l		8082	02/28/15	1

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REPORT OF ANALYSIS

Andy Bajorat
Bradburne, Briller, & Johnson-IL
500 North Dearborn Street, Suite 71
Chicago, IL 60654

March 03, 2015

ESC Sample # : L750695-10

Date Received : February 27, 2015
Description : Sears 1114

Site ID : BROOKLYN/BEVERLY RD N

Sample ID : RINSATE-1114-2

Project # : 09.BBJ001.00

Collected By : Victoria A Carada
Collection Date : 02/25/15 15:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
PCB 1260	U	0.12	0.50	ug/l		8082	02/28/15	1
PCBs Surrogates								
Decachlorobiphenyl	48.0			% Rec.		8082	02/28/15	1
Tetrachloro-m-xylene	64.4			% Rec.		8082	02/28/15	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L750695-01	WG772883	SAMP	PCB 1016	R3022610	J3
	WG772883	SAMP	PCB 1260	R3022610	J3
	WG772885	SAMP	Anthracene	R3022412	J
	WG772885	SAMP	Acenaphthene	R3022412	J
	WG772885	SAMP	Dibenz(a,h)anthracene	R3022412	J
	WG772885	SAMP	Fluorene	R3022412	J
	WG772885	SAMP	Naphthalene	R3022412	J
	WG773130	SAMP	Acetone	R3022512	J
	WG773130	SAMP	2-Butanone (MEK)	R3022512	J
	WG773130	SAMP	Tetrachloroethene	R3022512	J
	WG772804	SAMP	Arsenic	R3022407	J
L750695-02	WG772883	SAMP	PCB 1016	R3022610	J3
	WG772883	SAMP	PCB 1260	R3022610	J3
	WG772885	SAMP	Acenaphthylene	R3022412	J
	WG773130	SAMP	Acetone	R3022512	J
	WG773130	SAMP	2-Butanone (MEK)	R3022512	J
	WG773130	SAMP	1,2,4-Trimethylbenzene	R3022512	J
	WG773130	SAMP	1,2,3-Trimethylbenzene	R3022512	J
	WG773130	SAMP	1,3,5-Trimethylbenzene	R3022512	J
	WG772804	SAMP	Cadmium	R3022407	J
L750695-03	WG772876	SAMP	TPH (GC/FID) High Fraction	R3022469	J
	WG772883	SAMP	PCB 1016	R3022610	J3
	WG772883	SAMP	PCB 1260	R3022610	J3
	WG772885	SAMP	Benzo(a)anthracene	R3022412	J
	WG772885	SAMP	Benzo(a)pyrene	R3022412	J
	WG772885	SAMP	Benzo(b)fluoranthene	R3022412	J
	WG772885	SAMP	Benzo(g,h,i)perylene	R3022412	J
	WG772885	SAMP	Benzo(k)fluoranthene	R3022412	J
	WG772885	SAMP	Chrysene	R3022412	J
	WG772885	SAMP	Indeno(1,2,3-cd)pyrene	R3022412	J
	WG772885	SAMP	Phenanthrene	R3022412	J
L750695-04	WG772876	SAMP	TPH (GC/FID) High Fraction	R3022469	J
	WG772885	SAMP	Benzo(a)anthracene	R3022412	J
	WG772885	SAMP	Benzo(a)pyrene	R3022412	J
	WG772885	SAMP	Benzo(b)fluoranthene	R3022412	J
	WG772885	SAMP	Benzo(g,h,i)perylene	R3022412	J
	WG772885	SAMP	Benzo(k)fluoranthene	R3022412	J
	WG772885	SAMP	Chrysene	R3022412	J
	WG772885	SAMP	Indeno(1,2,3-cd)pyrene	R3022412	J
	WG772885	SAMP	Phenanthrene	R3022412	J
L750695-05	WG772876	SAMP	TPH (GC/FID) High Fraction	R3022469	J
	WG772883	SAMP	PCB 1016	R3022610	J3
	WG772883	SAMP	PCB 1260	R3022610	J3
	WG772885	SAMP	Anthracene	R3022412	J
	WG772885	SAMP	Acenaphthene	R3022412	J
	WG772885	SAMP	Dibenz(a,h)anthracene	R3022412	J
	WG772885	SAMP	Fluorene	R3022412	J
	WG772885	SAMP	Naphthalene	R3022412	J
L750695-06	WG772883	SAMP	PCB 1016	R3022610	J3
	WG772883	SAMP	PCB 1260	R3022610	J3
	WG772885	SAMP	Anthracene	R3022412	J
	WG772885	SAMP	Benzo(k)fluoranthene	R3022412	J
	WG772885	SAMP	Dibenz(a,h)anthracene	R3022412	J
	WG772885	SAMP	Indeno(1,2,3-cd)pyrene	R3022412	J
	WG772885	SAMP	Naphthalene	R3022412	J
L750695-07	WG773375	SAMP	Benzene	R3022722	J6J3
	WG773375	SAMP	Toluene	R3022722	J6J3
	WG773375	SAMP	Ethylbenzene	R3022722	J6J3
	WG773375	SAMP	Total Xylene	R3022722	J3J6
	WG772885	SAMP	Dibenz(a,h)anthracene	R3022412	J
	WG772885	SAMP	Naphthalene	R3022412	J
L750695-08	WG772885	SAMP	Benzo(a)pyrene	R3022412	J
	WG772885	SAMP	Benzo(g,h,i)perylene	R3022412	J
	WG772885	SAMP	Fluoranthene	R3022412	J
	WG772885	SAMP	Naphthalene	R3022412	J
	WG772885	SAMP	Pyrene	R3022412	J
L750695-09	WG772829	SAMP	pH	R3022426	T8
L750695-10	WG772829	SAMP	pH	R3022426	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

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

Definitions

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

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

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

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

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Andy Bajorat
500 North Dearborn Street, Suite 712

Chicago, IL 60654

Quality Assurance Report
Level II

L750695

March 03, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG772824	02/28/15 09:47
Total Solids	< .1	%			WG772823	02/28/15 09:53
Arsenic	< .02	mg/l			WG772807	02/27/15 18:08
Barium	< .005	mg/l			WG772807	02/27/15 18:08
Cadmium	< .005	mg/l			WG772807	02/27/15 18:08
Chromium	< .01	mg/l			WG772807	02/27/15 18:08
Lead	< .005	mg/l			WG772807	02/27/15 18:08
Selenium	< .02	mg/l			WG772807	02/27/15 18:08
Silver	< .01	mg/l			WG772807	02/27/15 18:08
Chromium,Hexavalent	< 2	mg/kg			WG772886	03/01/15 04:13
PCB 1016	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1221	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1232	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1242	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1248	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1254	< .0005	mg/l			WG772659	02/28/15 10:32
PCB 1260	< .0005	mg/l			WG772659	02/28/15 10:32
Decachlorobiphenyl		% Rec.	112.0	10-156	WG772659	02/28/15 10:32
Tetrachloro-m-xylene		% Rec.	98.30	13.9-137	WG772659	02/28/15 10:32
Mercury	< .02	mg/kg			WG772852	02/28/15 10:05
Arsenic	< 2	mg/kg			WG772804	02/28/15 22:36
Barium	< .5	mg/kg			WG772804	02/28/15 22:36
Cadmium	< .5	mg/kg			WG772804	02/28/15 22:36
Lead	< .5	mg/kg			WG772804	02/28/15 22:36
Selenium	< 2	mg/kg			WG772804	02/28/15 22:36
Silver	< 1	mg/kg			WG772804	02/28/15 22:36
Chromium	< 1	mg/kg			WG772804	03/01/15 21:02
Acenaphthene	< .033	mg/kg			WG772885	02/28/15 12:07
Acenaphthylene	< .033	mg/kg			WG772885	02/28/15 12:07
Anthracene	< .033	mg/kg			WG772885	02/28/15 12:07
Benzo(a)anthracene	< .033	mg/kg			WG772885	02/28/15 12:07
Benzo(a)pyrene	< .033	mg/kg			WG772885	02/28/15 12:07
Benzo(b)fluoranthene	< .033	mg/kg			WG772885	02/28/15 12:07
Benzo(g,h,i)perylene	< .033	mg/kg			WG772885	02/28/15 12:07
Benzo(k)fluoranthene	< .033	mg/kg			WG772885	02/28/15 12:07
Chrysene	< .033	mg/kg			WG772885	02/28/15 12:07
Dibenz(a,h)anthracene	< .033	mg/kg			WG772885	02/28/15 12:07
Fluoranthene	< .033	mg/kg			WG772885	02/28/15 12:07
Fluorene	< .033	mg/kg			WG772885	02/28/15 12:07
Indeno(1,2,3-cd)pyrene	< .033	mg/kg			WG772885	02/28/15 12:07
Naphthalene	< .033	mg/kg			WG772885	02/28/15 12:07
Phenanthrene	< .033	mg/kg			WG772885	02/28/15 12:07
Pyrene	< .033	mg/kg			WG772885	02/28/15 12:07
2-Fluorobiphenyl		% Rec.	70.50	41.4-134	WG772885	02/28/15 12:07
Nitrobenzene-d5		% Rec.	77.30	28.3-148	WG772885	02/28/15 12:07

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

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Chicago, IL 60654

Quality Assurance Report
Level II

L750695

March 03, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
p-Terphenyl-d14		% Rec.	77.90	35.8-140		02/28/15 12:07
TPH (GC/FID) High Fraction	< 4	mg/kg			WG772876	03/01/15 08:01
o-Terphenyl		% Rec.	76.40	50-150	WG772876	03/01/15 08:01
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1,1-Trichloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1,2-Trichloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1-Dichloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,1-Dichloroethene	< .001	mg/kg			WG773130	03/02/15 11:51
1,1-Dichloropropene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2,3-Trichlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2,3-Trichloropropane	< .0025	mg/kg			WG773130	03/02/15 11:51
1,2,3-Trimethylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2,4-Trichlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2,4-Trimethylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG773130	03/02/15 11:51
1,2-Dibromoethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,2-Dichlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,2-Dichloroethane	< .001	mg/kg			WG773130	03/02/15 11:51
1,2-Dichloropropane	< .001	mg/kg			WG773130	03/02/15 11:51
1,3,5-Trimethylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,3-Dichlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
1,3-Dichloropropane	< .001	mg/kg			WG773130	03/02/15 11:51
1,4-Dichlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
2,2-Dichloropropane	< .001	mg/kg			WG773130	03/02/15 11:51
2-Butanone (MEK)	< .01	mg/kg			WG773130	03/02/15 11:51
2-Chloroethyl vinyl ether	< .05	mg/kg			WG773130	03/02/15 11:51
2-Chlorotoluene	< .001	mg/kg			WG773130	03/02/15 11:51
4-Chlorotoluene	< .001	mg/kg			WG773130	03/02/15 11:51
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG773130	03/02/15 11:51
Acetone	< .05	mg/kg			WG773130	03/02/15 11:51
Acrylonitrile	< .01	mg/kg			WG773130	03/02/15 11:51
Benzene	< .001	mg/kg			WG773130	03/02/15 11:51
Bromobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Bromodichloromethane	< .001	mg/kg			WG773130	03/02/15 11:51
Bromoform	< .001	mg/kg			WG773130	03/02/15 11:51
Bromomethane	< .005	mg/kg			WG773130	03/02/15 11:51
Carbon tetrachloride	< .001	mg/kg			WG773130	03/02/15 11:51
Chlorobenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Chlorodibromomethane	< .001	mg/kg			WG773130	03/02/15 11:51
Chloroethane	< .005	mg/kg			WG773130	03/02/15 11:51
Chloroform	< .005	mg/kg			WG773130	03/02/15 11:51
Chloromethane	< .0025	mg/kg			WG773130	03/02/15 11:51
cis-1,2-Dichloroethene	< .001	mg/kg			WG773130	03/02/15 11:51
cis-1,3-Dichloropropene	< .001	mg/kg			WG773130	03/02/15 11:51
Di-isopropyl ether	< .001	mg/kg			WG773130	03/02/15 11:51
Dibromomethane	< .001	mg/kg			WG773130	03/02/15 11:51
Dichlorodifluoromethane	< .005	mg/kg			WG773130	03/02/15 11:51
Ethylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Hexachloro-1,3-butadiene	< .001	mg/kg			WG773130	03/02/15 11:51
Isopropylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Methyl tert-butyl ether	< .001	mg/kg			WG773130	03/02/15 11:51
Methylene Chloride	< .005	mg/kg			WG773130	03/02/15 11:51
n-Butylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
n-Propylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Naphthalene	< .005	mg/kg			WG773130	03/02/15 11:51

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Quality Assurance Report
Level II

L750695

March 03, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
p-Isopropyltoluene	< .001	mg/kg			WG773130	03/02/15 11:51
sec-Butylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Styrene	< .001	mg/kg			WG773130	03/02/15 11:51
tert-Butylbenzene	< .001	mg/kg			WG773130	03/02/15 11:51
Tetrachloroethene	< .001	mg/kg			WG773130	03/02/15 11:51
Toluene	< .005	mg/kg			WG773130	03/02/15 11:51
trans-1,2-Dichloroethene	< .001	mg/kg			WG773130	03/02/15 11:51
trans-1,3-Dichloropropene	< .001	mg/kg			WG773130	03/02/15 11:51
Trichloroethene	< .001	mg/kg			WG773130	03/02/15 11:51
Trichlorofluoromethane	< .005	mg/kg			WG773130	03/02/15 11:51
Vinyl chloride	< .001	mg/kg			WG773130	03/02/15 11:51
Xylenes, Total	< .003	mg/kg			WG773130	03/02/15 11:51
4-Bromofluorobenzene		% Rec.	96.20	71-126	WG773130	03/02/15 11:51
Dibromofluoromethane		% Rec.	95.60	78.3-121	WG773130	03/02/15 11:51
Toluene-d8		% Rec.	97.70	88.5-111	WG773130	03/02/15 11:51
Mercury	< .0002	mg/l			WG772929	03/02/15 11:00
Hexavalent Chromium-Low Level	< .00006	mg/l			WG772860	03/02/15 09:31
PCB 1016	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1221	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1232	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1242	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1248	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1254	< .017	mg/kg			WG772883	03/02/15 09:12
PCB 1260	< .017	mg/kg			WG772883	03/02/15 09:12
Decachlorobiphenyl		% Rec.	72.50	10-143	WG772883	03/02/15 09:12
Tetrachloro-m-xylene		% Rec.	72.80	29.2-144	WG772883	03/02/15 09:12
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG772908	03/02/15 15:46
a,a,a-Trifluorotoluene(FID)		% Rec.	98.10	59-128	WG772908	03/02/15 15:46
Acenaphthene	< .0002	mg/l			WG772926	03/02/15 15:53
Acenaphthylene	< .0002	mg/l			WG772926	03/02/15 15:53
Anthracene	< .0002	mg/l			WG772926	03/02/15 15:53
Benzo(a)anthracene	< .0002	mg/l			WG772926	03/02/15 15:53
Benzo(a)pyrene	< .0002	mg/l			WG772926	03/02/15 15:53
Benzo(b)fluoranthene	< .0002	mg/l			WG772926	03/02/15 15:53
Benzo(g,h,i)perylene	< .0002	mg/l			WG772926	03/02/15 15:53
Benzo(k)fluoranthene	< .0002	mg/l			WG772926	03/02/15 15:53
Chrysene	< .0002	mg/l			WG772926	03/02/15 15:53
Dibenz(a,h)anthracene	< .0002	mg/l			WG772926	03/02/15 15:53
Fluoranthene	< .0002	mg/l			WG772926	03/02/15 15:53
Fluorene	< .0002	mg/l			WG772926	03/02/15 15:53
Indeno(1,2,3-cd)pyrene	< .0002	mg/l			WG772926	03/02/15 15:53
Naphthalene	< .0002	mg/l			WG772926	03/02/15 15:53
Phenanthrene	< .0002	mg/l			WG772926	03/02/15 15:53
Pyrene	< .0002	mg/l			WG772926	03/02/15 15:53
2-Fluorobiphenyl		% Rec.	67.10	37.9-123	WG772926	03/02/15 15:53
Nitrobenzene-d5		% Rec.	68.50	21.9-134	WG772926	03/02/15 15:53
p-Terphenyl-d14		% Rec.	97.00	34.6-131	WG772926	03/02/15 15:53

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Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG773375	03/03/15 13:40
Ethylbenzene	< .0005	mg/kg			WG773375	03/03/15 13:40
Toluene	< .005	mg/kg			WG773375	03/03/15 13:40
Total Xylene	< .0015	mg/kg			WG773375	03/03/15 13:40
a,a,a-Trifluorotoluene(PID)		% Rec.	99.30	54-144	WG773375	03/03/15 13:40
p-Isopropyltoluene	< .001	mg/kg			WG773186	03/03/15 11:09
4-Bromofluorobenzene		% Rec.	99.00	71-126	WG773186	03/03/15 11:09
Dibromofluoromethane		% Rec.	91.10	78.3-121	WG773186	03/03/15 11:09
Toluene-d8		% Rec.	103.0	88.5-111	WG773186	03/03/15 11:09

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	96.2	96.7	0.497	5	L750695-05	WG772824
Total Solids	%	82.7	83.2	0.602	5	L750682-08	WG772823
Chromium,Hexavalent	mg/kg	0.0	0.0	0.0	20	L750698-06	WG772886
Chromium,Hexavalent	mg/kg	0.0	0.0	0.0	20	L750614-02	WG772886
pH	su	8.30	8.30	0.361	1	L750620-01	WG772829
pH	su	7.60	7.60	0.525	1	L750703-08	WG772829
pH	su	6.20	6.20	0.0	1	L750532-01	WG772872
pH	su	8.90	8.90	0.224	1	L750756-04	WG772872
Hexavalent Chromium-Low Level	mg/l	0.0000310	0.0000370	17.6	20	L750456-09	WG772860
Hexavalent Chromium-Low Level	mg/l	0.0000440	0.0000360	20.0	20	L750698-09	WG772860
ORP	mV	110.	110.	0.0	20	L750660-10	WG773036
ORP	mV	160.	160.	1.26	20	L750846-08	WG773036

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG772824
Total Solids	%	50	50.1	100.	85-115	WG772823
Arsenic	mg/l	1	1.05	105.	80-120	WG772807
Barium	mg/l	1	1.03	103.	80-120	WG772807
Cadmium	mg/l	1	1.05	105.	80-120	WG772807
Chromium	mg/l	1	1.01	101.	80-120	WG772807
Lead	mg/l	1	1.05	105.	80-120	WG772807
Selenium	mg/l	1	1.06	106.	80-120	WG772807
Silver	mg/l	1	0.967	97.0	80-120	WG772807
Chromium,Hexavalent	mg/kg	146	133.	91.1	80-120	WG772886

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
PCB 1016	mg/l	.0025	0.00208	83.1	24.7-128	WG772659
PCB 1260	mg/l	.0025	0.00255	102.	47.7-149	WG772659
Decachlorobiphenyl				90.40	10-156	WG772659
Tetrachloro-m-xylene				60.20	13.9-137	WG772659
Mercury	mg/kg	.458	0.484	106.	80-120	WG772852
Arsenic	mg/kg	100	81.5	81.0	80-120	WG772804
Barium	mg/kg	100	83.8	84.0	80-120	WG772804
Cadmium	mg/kg	100	82.1	82.0	80-120	WG772804
Lead	mg/kg	100	83.2	83.0	80-120	WG772804
Selenium	mg/kg	100	83.6	84.0	80-120	WG772804
Silver	mg/kg	100	80.6	81.0	80-120	WG772804
Chromium	mg/kg	100	89.9	90.0	80-120	WG772804
Acenaphthene	mg/kg	.4	0.306	76.4	50.7-125	WG772885
Acenaphthylene	mg/kg	.4	0.302	75.6	51.3-126	WG772885
Anthracene	mg/kg	.4	0.315	78.9	50.5-130	WG772885
Benzo(a)anthracene	mg/kg	.4	0.316	79.1	54.1-127	WG772885
Benzo(a)pyrene	mg/kg	.4	0.309	77.2	54.8-127	WG772885
Benzo(b)fluoranthene	mg/kg	.4	0.290	72.5	56.1-125	WG772885
Benzo(g,h,i)perylene	mg/kg	.4	0.327	81.7	53.3-132	WG772885
Benzo(k)fluoranthene	mg/kg	.4	0.325	81.1	50.9-129	WG772885
Chrysene	mg/kg	.4	0.319	79.8	55.3-126	WG772885
Dibenz(a,h)anthracene	mg/kg	.4	0.324	80.9	52.3-133	WG772885
Fluoranthene	mg/kg	.4	0.300	75.1	50.1-135	WG772885
Fluorene	mg/kg	.4	0.298	74.4	52.3-125	WG772885
Indeno(1,2,3-cd)pyrene	mg/kg	.4	0.329	82.2	50.1-135	WG772885
Naphthalene	mg/kg	.4	0.275	68.7	47.8-121	WG772885
Phenanthrene	mg/kg	.4	0.297	74.3	56-122	WG772885
Pyrene	mg/kg	.4	0.339	84.6	55.6-129	WG772885
2-Fluorobiphenyl				73.90	41.4-134	WG772885
Nitrobenzene-d5				74.80	28.3-148	WG772885
p-Terphenyl-d14				79.50	35.8-140	WG772885
pH	su	5.9	5.88	99.7	98.3-101.7	WG772829
pH	su	5.9	5.86	99.3	98.3-101.7	WG772872
TPH (GC/FID) High Fraction	mg/kg	60	50.6	84.3	50-150	WG772876
o-Terphenyl				84.20	50-150	WG772876
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0218	87.3	72.9-124	WG773130
1,1,1-Trichloroethane	mg/kg	.025	0.0210	84.1	73.7-124	WG773130
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0213	85.3	69.4-122	WG773130
1,1,2-Trichloroethane	mg/kg	.025	0.0219	87.6	79.1-118	WG773130
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0221	88.4	70-146	WG773130
1,1-Dichloroethane	mg/kg	.025	0.0214	85.6	75-124	WG773130
1,1-Dichloroethene	mg/kg	.025	0.0220	88.1	70.4-129	WG773130
1,1-Dichloropropene	mg/kg	.025	0.0209	83.6	74.9-124	WG773130
1,2,3-Trichlorobenzene	mg/kg	.025	0.0245	98.2	69.3-131	WG773130
1,2,3-Trichloropropane	mg/kg	.025	0.0220	87.9	71.4-123	WG773130

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2,3-Trimethylbenzene	mg/kg	.025	0.0229	91.7	73.6-113	WG773130
1,2,4-Trichlorobenzene	mg/kg	.025	0.0263	105.	71.9-137	WG773130
1,2,4-Trimethylbenzene	mg/kg	.025	0.0217	86.9	75.5-122	WG773130
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0256	102.	62.8-133	WG773130
1,2-Dibromoethane	mg/kg	.025	0.0224	89.7	78.6-120	WG773130
1,2-Dichlorobenzene	mg/kg	.025	0.0234	93.7	78.3-118	WG773130
1,2-Dichloroethane	mg/kg	.025	0.0215	86.0	70.1-124	WG773130
1,2-Dichloropropane	mg/kg	.025	0.0229	91.7	77.9-119	WG773130
1,3,5-Trimethylbenzene	mg/kg	.025	0.0215	86.2	75.9-124	WG773130
1,3-Dichlorobenzene	mg/kg	.025	0.0217	86.8	72-126	WG773130
1,3-Dichloropropane	mg/kg	.025	0.0216	86.2	79.1-117	WG773130
1,4-Dichlorobenzene	mg/kg	.025	0.0229	91.6	78.3-117	WG773130
2,2-Dichloropropane	mg/kg	.025	0.0207	82.8	61.3-136	WG773130
2-Butanone (MEK)	mg/kg	.125	0.124	99.2	53.7-153	WG773130
2-Chloroethyl vinyl ether	mg/kg	.125	0.134	107.	37.7-157	WG773130
2-Chlorotoluene	mg/kg	.025	0.0218	87.1	75.6-121	WG773130
4-Chlorotoluene	mg/kg	.025	0.0221	88.5	77.3-120	WG773130
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.129	103.	70.4-137	WG773130
Acetone	mg/kg	.125	0.111	88.4	35.1-175	WG773130
Acrylonitrile	mg/kg	.125	0.118	94.7	56.4-128	WG773130
Benzene	mg/kg	.025	0.0210	84.0	77.1-121	WG773130
Bromobenzene	mg/kg	.025	0.0218	87.0	78.2-115	WG773130
Bromodichloromethane	mg/kg	.025	0.0224	89.5	74.9-115	WG773130
Bromoform	mg/kg	.025	0.0233	93.4	65.9-132	WG773130
Bromomethane	mg/kg	.025	0.0206	82.4	48.7-165	WG773130
Carbon tetrachloride	mg/kg	.025	0.0225	89.9	70-124	WG773130
Chlorobenzene	mg/kg	.025	0.0219	87.8	79.1-119	WG773130
Chlorodibromomethane	mg/kg	.025	0.0226	90.3	73.5-121	WG773130
Chloroethane	mg/kg	.025	0.0211	84.5	66.2-132	WG773130
Chloroform	mg/kg	.025	0.0201	80.4	76.7-122	WG773130
Chloromethane	mg/kg	.025	0.0197	78.7	63.4-131	WG773130
cis-1,2-Dichloroethene	mg/kg	.025	0.0216	86.3	78.2-119	WG773130
cis-1,3-Dichloropropene	mg/kg	.025	0.0226	90.3	79.6-120	WG773130
Di-isopropyl ether	mg/kg	.025	0.0207	83.0	70.4-133	WG773130
Dibromomethane	mg/kg	.025	0.0222	89.0	79.4-120	WG773130
Dichlorodifluoromethane	mg/kg	.025	0.0192	76.8	57.1-137	WG773130
Ethylbenzene	mg/kg	.025	0.0220	87.9	79.7-122	WG773130
Hexachloro-1,3-butadiene	mg/kg	.025	0.0238	95.3	68.2-123	WG773130
Isopropylbenzene	mg/kg	.025	0.0212	84.9	80-135	WG773130
Methyl tert-butyl ether	mg/kg	.025	0.0218	87.4	73-129	WG773130
Methylene Chloride	mg/kg	.025	0.0202	80.9	72.6-120	WG773130
n-Butylbenzene	mg/kg	.025	0.0257	103.	77.5-126	WG773130
n-Propylbenzene	mg/kg	.025	0.0225	90.0	77.9-123	WG773130
Naphthalene	mg/kg	.025	0.0247	98.9	69.8-128	WG773130
p-Isopropyltoluene	mg/kg	.025	0.0222	88.6	75.8-129	WG773130
sec-Butylbenzene	mg/kg	.025	0.0222	88.9	75.8-126	WG773130
Styrene	mg/kg	.025	0.0223	89.0	82.4-126	WG773130
tert-Butylbenzene	mg/kg	.025	0.0217	86.7	76.4-126	WG773130
Tetrachloroethene	mg/kg	.025	0.0218	87.3	73.9-125	WG773130
Toluene	mg/kg	.025	0.0213	85.3	79.7-118	WG773130
trans-1,2-Dichloroethene	mg/kg	.025	0.0208	83.2	73.8-122	WG773130
trans-1,3-Dichloropropene	mg/kg	.025	0.0224	89.6	75.9-124	WG773130
Trichloroethene	mg/kg	.025	0.0223	89.4	77.9-118	WG773130
Trichlorofluoromethane	mg/kg	.025	0.0225	90.1	67.7-131	WG773130
Vinyl chloride	mg/kg	.025	0.0205	81.9	66.7-130	WG773130
Xylenes, Total	mg/kg	.075	0.0647	86.2	78.8-121	WG773130
4-Bromofluorobenzene				97.10	71-126	WG773130
Dibromofluoromethane				95.20	78.3-121	WG773130
Toluene-d8				101.0	88.5-111	WG773130

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L750695

March 03, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Mercury	mg/l	.003	0.00303	101.	85-115	WG772929
Hexavalent Chromium-Low Level	mg/l	.002	0.00194	97.0	90-110	WG772860
PCB 1016	mg/kg	.1667	0.0873	52.4	46.3-117	WG772883
PCB 1260	mg/kg	.1667	0.0874	52.5	46.5-120	WG772883
Decachlorobiphenyl				74.80	10-143	WG772883
Tetrachloro-m-xylene				82.00	29.2-144	WG772883
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.45	99.1	63.5-137	WG772908
a,a,a-Trifluorotoluene(FID)				99.90	59-128	WG772908
Acenaphthene	mg/l	.005	0.00444	88.8	48.2-121	WG772926
Acenaphthylene	mg/l	.005	0.00446	89.3	47.6-120	WG772926
Anthracene	mg/l	.005	0.00449	89.9	52.6-121	WG772926
Benzo(a)anthracene	mg/l	.005	0.00457	91.5	50.7-122	WG772926
Benzo(a)pyrene	mg/l	.005	0.00479	95.8	51.9-121	WG772926
Benzo(b)fluoranthene	mg/l	.005	0.00522	104.	47.2-130	WG772926
Benzo(g,h,i)perylene	mg/l	.005	0.00506	101.	46.4-129	WG772926
Benzo(k)fluoranthene	mg/l	.005	0.00492	98.5	48.7-124	WG772926
Chrysene	mg/l	.005	0.00466	93.3	49.2-129	WG772926
Dibenz(a,h)anthracene	mg/l	.005	0.00495	99.0	44.4-134	WG772926
Fluoranthene	mg/l	.005	0.00481	96.3	53.2-124	WG772926
Fluorene	mg/l	.005	0.00457	91.4	51.3-120	WG772926
Indeno(1,2,3-cd)pyrene	mg/l	.005	0.00506	101.	44.2-128	WG772926
Naphthalene	mg/l	.005	0.00394	78.9	43.8-111	WG772926
Phenanthrene	mg/l	.005	0.00458	91.6	52.5-120	WG772926
Pyrene	mg/l	.005	0.00457	91.3	53.5-140	WG772926
2-Fluorobiphenyl				82.50	37.9-123	WG772926
Nitrobenzene-d5				86.70	21.9-134	WG772926
p-Terphenyl-d14				92.80	34.6-131	WG772926
ORP	mV	100	105.	105.	90-110	WG773036
Benzene	mg/kg	.05	0.0429	85.7	70-130	WG773375
Ethylbenzene	mg/kg	.05	0.0443	88.7	70-130	WG773375
Toluene	mg/kg	.05	0.0423	84.6	70-130	WG773375
Total Xylene	mg/kg	.15	0.134	89.4	70-130	WG773375
a,a,a-Trifluorotoluene(PID)				98.30	54-144	WG773375
p-Isopropyltoluene	mg/kg	.025	0.0251	101.	75.8-129	WG773186
4-Bromofluorobenzene				98.20	71-126	WG773186
Dibromofluoromethane				95.20	78.3-121	WG773186
Toluene-d8				104.0	88.5-111	WG773186

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Arsenic	mg/l	1.01	1.05	101.	80-120	3.00	20	WG772807
Barium	mg/l	0.995	1.03	99.0	80-120	4.00	20	WG772807
Cadmium	mg/l	1.01	1.05	101.	80-120	4.00	20	WG772807
Chromium	mg/l	0.971	1.01	97.0	80-120	4.00	20	WG772807

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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

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Est. 1970

Bradburne, Briller, & Johnson-IL
Andy Bajorat
500 North Dearborn Street, Suite 712
Chicago, IL 60654

Quality Assurance Report
Level II

L750695

March 03, 2015

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Lead	mg/l	1.02	1.05	102.	80-120	3.00	20	WG772807
Selenium	mg/l	1.02	1.06	102.	80-120	4.00	20	WG772807
Silver	mg/l	0.933	0.967	93.0	80-120	4.00	20	WG772807
Chromium,Hexavalent	mg/kg	133.	133.	91.0	80-120	0.0	20	WG772886
PCB 1016	mg/l	0.00208	0.00208	83.0	24.7-128	0.190	34.9	WG772659
PCB 1260	mg/l	0.00254	0.00255	102.	47.7-149	0.280	28.8	WG772659
Decachlorobiphenyl				90.70	10-156			WG772659
Tetrachloro-m-xylene				52.40	13.9-137			WG772659
Mercury	mg/kg	0.483	0.484	106.	80-120	0.0	20	WG772852
Arsenic	mg/kg	84.1	81.5	84.0	80-120	3.00	20	WG772804
Barium	mg/kg	85.0	83.8	85.0	80-120	1.00	20	WG772804
Cadmium	mg/kg	84.4	82.1	84.0	80-120	3.00	20	WG772804
Lead	mg/kg	86.2	83.2	86.0	80-120	4.00	20	WG772804
Selenium	mg/kg	86.8	83.6	87.0	80-120	4.00	20	WG772804
Silver	mg/kg	81.3	80.6	81.0	80-120	1.00	20	WG772804
Chromium	mg/kg	87.7	89.9	88.0	80-120	2.00	20	WG772804
Acenaphthene	mg/kg	0.320	0.306	80.0	50.7-125	4.67	20	WG772885
Acenaphthylene	mg/kg	0.322	0.302	81.0	51.3-126	6.46	20	WG772885
Anthracene	mg/kg	0.332	0.315	83.0	50.5-130	5.08	20	WG772885
Benzo(a)anthracene	mg/kg	0.325	0.316	81.0	54.1-127	2.66	20	WG772885
Benzo(a)pyrene	mg/kg	0.327	0.309	82.0	54.8-127	5.67	20	WG772885
Benzo(b)fluoranthene	mg/kg	0.317	0.290	79.0	56.1-125	8.85	20	WG772885
Benzo(g,h,i)perylene	mg/kg	0.345	0.327	86.0	53.3-132	5.44	20	WG772885
Benzo(k)fluoranthene	mg/kg	0.339	0.325	85.0	50.9-129	4.32	20	WG772885
Chrysene	mg/kg	0.338	0.319	84.0	55.3-126	5.81	20	WG772885
Dibenz(a,h)anthracene	mg/kg	0.347	0.324	87.0	52.3-133	6.99	20	WG772885
Fluoranthene	mg/kg	0.316	0.300	79.0	50.1-135	5.11	20	WG772885
Fluorene	mg/kg	0.318	0.298	79.0	52.3-125	6.54	20	WG772885
Indeno(1,2,3-cd)pyrene	mg/kg	0.350	0.329	87.0	50.1-135	6.20	20	WG772885
Naphthalene	mg/kg	0.308	0.275	77.0	47.8-121	11.2	20	WG772885
Phenanthrene	mg/kg	0.314	0.297	78.0	56-122	5.46	20	WG772885
Pyrene	mg/kg	0.359	0.339	90.0	55.6-129	5.86	20	WG772885
2-Fluorobiphenyl				78.00	41.4-134			WG772885
Nitrobenzene-d5				85.60	28.3-148			WG772885
p-Terphenyl-d14				84.20	35.8-140			WG772885
pH	su	5.88	5.88	100.	98.3-101.7	0.0	20	WG772829
pH	su	5.86	5.86	99.0	98.3-101.7	0.0	20	WG772872
TPH (GC/FID) High Fraction	mg/kg	60.5	50.6	101.	50-150	17.8	20	WG772876
o-Terphenyl				92.20	50-150			WG772876
1,1,1,2-Tetrachloroethane	mg/kg	0.0230	0.0218	92.0	72.9-124	5.21	20	WG773130
1,1,1-Trichloroethane	mg/kg	0.0219	0.0210	88.0	73.7-124	4.07	20	WG773130

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,1,2,2-Tetrachloroethane	mg/kg	0.0236	0.0213	94.0	69.4-122	10.3	20	WG773130
1,1,2-Trichloroethane	mg/kg	0.0235	0.0219	94.0	79.1-118	7.01	20	WG773130
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0232	0.0221	93.0	70-146	4.95	20	WG773130
1,1-Dichloroethane	mg/kg	0.0231	0.0214	92.0	75-124	7.68	20	WG773130
1,1-Dichloroethene	mg/kg	0.0236	0.0220	94.0	70.4-129	6.77	20	WG773130
1,1-Dichloropropene	mg/kg	0.0228	0.0209	91.0	74.9-124	8.79	20	WG773130
1,2,3-Trichlorobenzene	mg/kg	0.0243	0.0245	97.0	69.3-131	0.950	20	WG773130
1,2,3-Trichloropropane	mg/kg	0.0246	0.0220	98.0	71.4-123	11.2	20	WG773130
1,2,3-Trimethylbenzene	mg/kg	0.0230	0.0229	92.0	73.6-113	0.290	20	WG773130
1,2,4-Trichlorobenzene	mg/kg	0.0251	0.0263	100.	71.9-137	4.56	20	WG773130
1,2,4-Trimethylbenzene	mg/kg	0.0235	0.0217	94.0	75.5-122	8.00	20	WG773130
1,2-Dibromo-3-Chloropropane	mg/kg	0.0262	0.0256	105.	62.8-133	2.14	20	WG773130
1,2-Dibromoethane	mg/kg	0.0247	0.0224	99.0	78.6-120	9.59	20	WG773130
1,2-Dichlorobenzene	mg/kg	0.0236	0.0234	94.0	78.3-118	0.730	20	WG773130
1,2-Dichloroethane	mg/kg	0.0226	0.0215	90.0	70.1-124	4.95	20	WG773130
1,2-Dichloropropane	mg/kg	0.0234	0.0229	94.0	77.9-119	2.08	20	WG773130
1,3,5-Trimethylbenzene	mg/kg	0.0229	0.0215	91.0	75.9-124	5.90	20	WG773130
1,3-Dichlorobenzene	mg/kg	0.0231	0.0217	92.0	72-126	6.18	20	WG773130
1,3-Dichloropropane	mg/kg	0.0236	0.0216	94.0	79.1-117	9.00	20	WG773130
1,4-Dichlorobenzene	mg/kg	0.0226	0.0229	90.0	78.3-117	1.21	20	WG773130
2,2-Dichloropropane	mg/kg	0.0225	0.0207	90.0	61.3-136	8.43	20	WG773130
2-Butanone (MEK)	mg/kg	0.144	0.124	115.	53.7-153	14.8	21.2	WG773130
2-Chloroethyl vinyl ether	mg/kg	0.144	0.134	115.	37.7-157	7.12	20	WG773130
2-Chlorotoluene	mg/kg	0.0233	0.0218	93.0	75.6-121	6.60	20	WG773130
4-Chlorotoluene	mg/kg	0.0237	0.0221	95.0	77.3-120	6.67	20	WG773130
4-Methyl-2-pentanone (MIBK)	mg/kg	0.142	0.129	114.	70.4-137	9.80	20	WG773130
Acetone	mg/kg	0.127	0.111	102.	35.1-175	14.3	26.1	WG773130
Acrylonitrile	mg/kg	0.133	0.118	106.	56.4-128	11.6	20	WG773130
Benzene	mg/kg	0.0228	0.0210	91.0	77.1-121	8.40	20	WG773130
Bromobenzene	mg/kg	0.0233	0.0218	93.0	78.2-115	6.94	20	WG773130
Bromodichloromethane	mg/kg	0.0226	0.0224	90.0	74.9-115	1.07	20	WG773130
Bromoform	mg/kg	0.0248	0.0233	99.0	65.9-132	6.22	20	WG773130
Bromomethane	mg/kg	0.0220	0.0206	88.0	48.7-165	6.51	20	WG773130
Carbon tetrachloride	mg/kg	0.0231	0.0225	92.0	70-124	2.74	20	WG773130
Chlorobenzene	mg/kg	0.0237	0.0219	95.0	79.1-119	7.58	20	WG773130
Chlorodibromomethane	mg/kg	0.0244	0.0226	98.0	73.5-121	7.69	20	WG773130
Chloroethane	mg/kg	0.0209	0.0211	84.0	66.2-132	1.02	20	WG773130
Chloroform	mg/kg	0.0219	0.0201	88.0	76.7-122	8.69	20	WG773130
Chloromethane	mg/kg	0.0217	0.0197	87.0	63.4-131	9.96	20	WG773130
cis-1,2-Dichloroethene	mg/kg	0.0229	0.0216	91.0	78.2-119	5.84	20	WG773130
cis-1,3-Dichloropropene	mg/kg	0.0232	0.0226	93.0	79.6-120	2.72	20	WG773130
Di-isopropyl ether	mg/kg	0.0222	0.0207	89.0	70.4-133	6.86	20	WG773130
Dibromomethane	mg/kg	0.0239	0.0222	95.0	79.4-120	7.01	20	WG773130
Dichlorodifluoromethane	mg/kg	0.0200	0.0192	80.0	57.1-137	4.17	20	WG773130
Ethylbenzene	mg/kg	0.0231	0.0220	92.0	79.7-122	4.94	20	WG773130
Hexachloro-1,3-butadiene	mg/kg	0.0230	0.0238	92.0	68.2-123	3.28	20	WG773130
Isopropylbenzene	mg/kg	0.0224	0.0212	90.0	80-135	5.39	20	WG773130
Methyl tert-butyl ether	mg/kg	0.0233	0.0218	93.0	73-129	6.31	20	WG773130
Methylene Chloride	mg/kg	0.0218	0.0202	87.0	72.6-120	7.66	20	WG773130
n-Butylbenzene	mg/kg	0.0255	0.0257	102.	77.5-126	0.910	20	WG773130
n-Propylbenzene	mg/kg	0.0236	0.0225	94.0	77.9-123	4.63	20	WG773130
Naphthalene	mg/kg	0.0261	0.0247	104.	69.8-128	5.39	20	WG773130
p-Isopropyltoluene	mg/kg	0.0237	0.0222	95.0	75.8-129	6.62	20	WG773130
sec-Butylbenzene	mg/kg	0.0236	0.0222	94.0	75.8-126	5.79	20	WG773130
Styrene	mg/kg	0.0232	0.0223	93.0	82.4-126	4.13	20	WG773130
tert-Butylbenzene	mg/kg	0.0231	0.0217	92.0	76.4-126	6.45	20	WG773130
Tetrachloroethene	mg/kg	0.0238	0.0218	95.0	73.9-125	8.69	20	WG773130
Toluene	mg/kg	0.0230	0.0213	92.0	79.7-118	7.44	20	WG773130
trans-1,2-Dichloroethene	mg/kg	0.0219	0.0208	87.0	73.8-122	5.01	20	WG773130

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March 03, 2015

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
trans-1,3-Dichloropropene	mg/kg	0.0234	0.0224	94.0	75.9-124	4.50	20	WG773130
Trichloroethene	mg/kg	0.0226	0.0223	90.0	77.9-118	0.960	20	WG773130
Trichlorofluoromethane	mg/kg	0.0234	0.0225	94.0	67.7-131	3.90	20	WG773130
Vinyl chloride	mg/kg	0.0215	0.0205	86.0	66.7-130	4.91	20	WG773130
Xylenes, Total	mg/kg	0.0693	0.0647	92.0	78.8-121	6.89	20	WG773130
4-Bromofluorobenzene				100.0	71-126			WG773130
Dibromofluoromethane				95.30	78.3-121			WG773130
Toluene-d8				99.30	88.5-111			WG773130
Mercury	mg/l	0.00301	0.00303	100.	85-115	1.00	20	WG772929
Hexavalent Chromium-Low Level	mg/l	0.00194	0.00194	97.0	90-110	0.0	20	WG772860
PCB 1016	mg/kg	0.130	0.0873	78.0	46.3-117	39.5*	27.5	WG772883
PCB 1260	mg/kg	0.136	0.0874	81.0	46.5-120	43.2*	27	WG772883
Decachlorobiphenyl				93.30	10-143			WG772883
Tetrachloro-m-xylene				94.70	29.2-144			WG772883
TPH (GC/FID) Low Fraction	mg/kg	5.35	5.45	97.0	63.5-137	1.93	20	WG772908
a,a,a-Trifluorotoluene(FID)				99.20	59-128			WG772908
Acenaphthene	mg/l	0.00462	0.00444	92.0	48.2-121	4.03	20	WG772926
Acenaphthylene	mg/l	0.00469	0.00446	94.0	47.6-120	5.03	20	WG772926
Anthracene	mg/l	0.00479	0.00449	96.0	52.6-121	6.43	20	WG772926
Benzo(a)anthracene	mg/l	0.00473	0.00457	95.0	50.7-122	3.43	20	WG772926
Benzo(a)pyrene	mg/l	0.00506	0.00479	101.	51.9-121	5.36	20	WG772926
Benzo(b)fluoranthene	mg/l	0.00529	0.00522	106.	47.2-130	1.27	20	WG772926
Benzo(g,h,i)perylene	mg/l	0.00530	0.00506	106.	46.4-129	4.75	20	WG772926
Benzo(k)fluoranthene	mg/l	0.00542	0.00492	108.	48.7-124	9.60	20	WG772926
Chrysene	mg/l	0.00481	0.00466	96.0	49.2-129	3.10	20	WG772926
Dibenz(a,h)anthracene	mg/l	0.00531	0.00495	106.	44.4-134	7.00	20	WG772926
Fluoranthene	mg/l	0.00510	0.00481	102.	53.2-124	5.86	20	WG772926
Fluorene	mg/l	0.00483	0.00457	97.0	51.3-120	5.57	20	WG772926
Indeno(1,2,3-cd)pyrene	mg/l	0.00535	0.00506	107.	44.2-128	5.57	20	WG772926
Naphthalene	mg/l	0.00423	0.00394	84.0	43.8-111	6.92	20	WG772926
Phenanthrene	mg/l	0.00487	0.00458	97.0	52.5-120	6.04	20	WG772926
Pyrene	mg/l	0.00482	0.00457	96.0	53.5-140	5.42	20	WG772926
2-Fluorobiphenyl				86.10	37.9-123			WG772926
Nitrobenzene-d5				94.60	21.9-134			WG772926
p-Terphenyl-d14				97.90	34.6-131			WG772926
ORP	mV	103.	105.	103.	90-110	1.92	20	WG773036
Benzene	mg/kg	0.0417	0.0429	83.0	70-130	2.66	20	WG773375
Ethylbenzene	mg/kg	0.0429	0.0443	86.0	70-130	3.28	20	WG773375
Toluene	mg/kg	0.0410	0.0423	82.0	70-130	3.15	20	WG773375
Total Xylene	mg/kg	0.130	0.134	86.0	70-130	3.45	20	WG773375
a,a,a-Trifluorotoluene(PID)				97.80	54-144			WG773375
p-Isopropyltoluene	mg/kg	0.0253	0.0251	101.	75.8-129	0.790	20	WG773186
4-Bromofluorobenzene				100.0	71-126			WG773186

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibromofluoromethane				94.70		78.3-121		
Toluene-d8				103.0		88.5-111		

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Arsenic	mg/l	1.03	0.00228	1	100.	75-125	L750660-02	WG772807
Barium	mg/l	1.10	0.114	1	99.0	75-125	L750660-02	WG772807
Cadmium	mg/l	1.01	-0.000011	1	100.	75-125	L750660-02	WG772807
Chromium	mg/l	0.964	0.00707	1	96.0	75-125	L750660-02	WG772807
Lead	mg/l	1.03	0.0148	1	100.	75-125	L750660-02	WG772807
Selenium	mg/l	1.05	-0.00493	1	100.	75-125	L750660-02	WG772807
Silver	mg/l	0.972	0.000855	1	97.0	75-125	L750660-02	WG772807
Chromium,Hexavalent	mg/kg	21.2	0.0	20	110.	75-125	L750698-06	WG772886
Mercury	mg/kg	0.629	0.798	.0458	0.0*	75-125	L750670-01	WG772852
Arsenic	mg/kg	93.4	4.06	100	89.0	75-125	L750660-10	WG772804
Barium	mg/kg	158.	65.9	100	92.0	75-125	L750660-10	WG772804
Cadmium	mg/kg	90.1	0.0130	100	90.0	75-125	L750660-10	WG772804
Lead	mg/kg	116.	18.3	100	98.0	75-125	L750660-10	WG772804
Selenium	mg/kg	88.6	0.0668	100	89.0	75-125	L750660-10	WG772804
Silver	mg/kg	90.7	-0.317	100	91.0	75-125	L750660-10	WG772804
Chromium	mg/kg	117.	20.1	100	97.0	75-125	L750660-10	WG772804
Acenaphthene	mg/kg	0.285	0.0	.4	71.0	48.3-126	L750787-01	WG772885
Acenaphthylene	mg/kg	0.286	0.0	.4	72.0	48.7-128	L750787-01	WG772885
Anthracene	mg/kg	0.299	0.0	.4	75.0	41-133	L750787-01	WG772885
Benzo(a)anthracene	mg/kg	0.290	0.0	.4	73.0	31.6-136	L750787-01	WG772885
Benzo(a)pyrene	mg/kg	0.288	0.0	.4	72.0	28-137	L750787-01	WG772885
Benzo(b)fluoranthene	mg/kg	0.275	0.0	.4	69.0	24-134	L750787-01	WG772885
Benzo(g,h,i)perylene	mg/kg	0.303	0.0	.4	76.0	19.1-139	L750787-01	WG772885
Benzo(k)fluoranthene	mg/kg	0.286	0.0	.4	71.0	30.4-134	L750787-01	WG772885
Chrysene	mg/kg	0.295	0.0	.4	74.0	32.4-137	L750787-01	WG772885
Dibenz(a,h)anthracene	mg/kg	0.304	0.0	.4	76.0	30.3-135	L750787-01	WG772885
Fluoranthene	mg/kg	0.283	0.0	.4	71.0	32.8-139	L750787-01	WG772885
Fluorene	mg/kg	0.279	0.0	.4	70.0	43-129	L750787-01	WG772885
Indeno(1,2,3-cd)pyrene	mg/kg	0.305	0.0	.4	76.0	22.3-139	L750787-01	WG772885
Naphthalene	mg/kg	0.282	0.00520	.4	69.0	38.1-135	L750787-01	WG772885
Phenanthrene	mg/kg	0.279	0.0	.4	70.0	36.2-134	L750787-01	WG772885
Pyrene	mg/kg	0.316	0.0	.4	79.0	30.3-144	L750787-01	WG772885
2-Fluorobiphenyl					69.90	41.4-134		WG772885
Nitrobenzene-d5					77.20	28.3-148		WG772885
p-Terphenyl-d14					75.50	35.8-140		WG772885
TPH (GC/FID) High Fraction	mg/kg	67.1	1.26	60	110.	50-150	L750685-01	WG772876
o-Terphenyl					92.90	50-150		WG772876
Mercury	mg/l	0.00350	-0.000016	.003	120.	80-120	L750660-04	WG772929
Hexavalent Chromium-Low Level	mg/l	0.00102	0.0000360	.001	98.0	90-110	L750483-27	WG772860

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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Bradburne, Briller, & Johnson-IL
Andy Bajorat
500 North Dearborn Street, Suite 712

Chicago, IL 60654

Quality Assurance Report
Level II

L750695

March 03, 2015

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.109	0.0	.025	87.0	64-128	L750364-01	WG773130
1,1,1-Trichloroethane	mg/kg	0.108	0.0	.025	86.0	58.7-134	L750364-01	WG773130
1,1,2,2-Tetrachloroethane	mg/kg	0.0767	0.0	.025	61.0	56-132	L750364-01	WG773130
1,1,2-Trichloroethane	mg/kg	0.112	0.0	.025	90.0	66.3-125	L750364-01	WG773130
1,1,2-Trichlorotrifluoroethane	mg/kg	0.110	0.0	.025	88.0	54.8-154	L750364-01	WG773130
1,1-Dichloroethane	mg/kg	0.113	0.0	.025	91.0	58.5-132	L750364-01	WG773130
1,1-Dichloroethene	mg/kg	0.111	0.0	.025	89.0	51.1-140	L750364-01	WG773130
1,1-Dichloropropene	mg/kg	0.102	0.0	.025	82.0	57.3-136	L750364-01	WG773130
1,2,3-Trichlorobenzene	mg/kg	0.0767	0.0	.025	61.0	59.1-138	L750364-01	WG773130
1,2,3-Trichloropropane	mg/kg	0.110	0.0	.025	88.0	61.4-128	L750364-01	WG773130
1,2,3-Trimethylbenzene	mg/kg	0.0998	0.0	.025	80.0	61.3-122	L750364-01	WG773130
1,2,4-Trichlorobenzene	mg/kg	0.0719	0.0	.025	58.0*	63.6-143	L750364-01	WG773130
1,2,4-Trimethylbenzene	mg/kg	0.0920	0.0	.025	74.0	57.4-137	L750364-01	WG773130
1,2-Dibromo-3-Chloropropane	mg/kg	0.109	0.0	.025	87.0	57.3-136	L750364-01	WG773130
1,2-Dibromoethane	mg/kg	0.110	0.0	.025	88.0	67.1-125	L750364-01	WG773130
1,2-Dichlorobenzene	mg/kg	0.0958	0.0	.025	77.0	68.2-123	L750364-01	WG773130
1,2-Dichloroethane	mg/kg	0.110	0.0	.025	88.0	60-126	L750364-01	WG773130
1,2-Dichloropropane	mg/kg	0.123	0.0	.025	98.0	64.2-123	L750364-01	WG773130
1,3,5-Trimethylbenzene	mg/kg	0.0930	0.0	.025	74.0	63.6-132	L750364-01	WG773130
1,3-Dichlorobenzene	mg/kg	0.0837	0.0	.025	67.0	63.1-131	L750364-01	WG773130
1,3-Dichloropropane	mg/kg	0.110	0.0	.025	88.0	67.9-121	L750364-01	WG773130
1,4-Dichlorobenzene	mg/kg	0.0826	0.0	.025	66.0*	68.6-123	L750364-01	WG773130
2,2-Dichloropropane	mg/kg	0.0954	0.0	.025	76.0	50.5-144	L750364-01	WG773130
2-Butanone (MEK)	mg/kg	0.703	0.0	.125	110.	22.4-138	L750364-01	WG773130
2-Chloroethyl vinyl ether	mg/kg	0.704	0.0	.125	110.	10-155	L750364-01	WG773130
2-Chlorotoluene	mg/kg	0.0946	0.0	.025	76.0	63.6-128	L750364-01	WG773130
4-Chlorotoluene	mg/kg	0.0907	0.0	.025	72.0	65.7-127	L750364-01	WG773130
4-Methyl-2-pentanone (MIBK)	mg/kg	0.684	0.0	.125	110.	60.8-140	L750364-01	WG773130
Acetone	mg/kg	0.615	0.00579	.125	97.0	10-130	L750364-01	WG773130
Acrylonitrile	mg/kg	0.648	0.0	.125	100.	49.4-133	L750364-01	WG773130
Benzene	mg/kg	0.111	0.0	.025	88.0	54.3-133	L750364-01	WG773130
Bromobenzene	mg/kg	0.0993	0.0	.025	79.0	63.9-124	L750364-01	WG773130
Bromodichloromethane	mg/kg	0.112	0.0	.025	89.0	63.9-121	L750364-01	WG773130
Bromoform	mg/kg	0.114	0.0	.025	91.0	59.5-134	L750364-01	WG773130
Bromomethane	mg/kg	0.0856	0.0	.025	68.0	41.7-155	L750364-01	WG773130
Carbon tetrachloride	mg/kg	0.109	0.0	.025	87.0	55.7-134	L750364-01	WG773130
Chlorobenzene	mg/kg	0.103	0.0	.025	82.0	67-125	L750364-01	WG773130
Chlorodibromomethane	mg/kg	0.115	0.0	.025	92.0	64.3-125	L750364-01	WG773130
Chloroethane	mg/kg	0.100	0.0	.025	80.0	51.5-136	L750364-01	WG773130
Chloroform	mg/kg	0.110	0.0	.025	88.0	63-129	L750364-01	WG773130
Chloromethane	mg/kg	0.104	0.0	.025	84.0	42.4-135	L750364-01	WG773130
cis-1,2-Dichloroethene	mg/kg	0.110	0.0	.025	88.0	59.2-129	L750364-01	WG773130
cis-1,3-Dichloropropene	mg/kg	0.106	0.0	.025	85.0	66.4-125	L750364-01	WG773130
Di-isopropyl ether	mg/kg	0.115	0.0	.025	92.0	56.9-136	L750364-01	WG773130
Dibromomethane	mg/kg	0.115	0.0	.025	92.0	68.2-124	L750364-01	WG773130
Dichlorodifluoromethane	mg/kg	0.0932	0.0	.025	75.0	40.6-144	L750364-01	WG773130
Ethylbenzene	mg/kg	0.100	0.0	.025	80.0	61.4-133	L750364-01	WG773130
Hexachloro-1,3-butadiene	mg/kg	0.0879	0.0	.025	70.0	55.1-136	L750364-01	WG773130
Isopropylbenzene	mg/kg	0.0988	0.0	.025	79.0	66.8-141	L750364-01	WG773130
Methyl tert-butyl ether	mg/kg	0.116	0.0	.025	93.0	57.7-134	L750364-01	WG773130
Methylene Chloride	mg/kg	0.105	0.0	.025	84.0	58.1-122	L750364-01	WG773130
n-Butylbenzene	mg/kg	0.0897	0.0	.025	72.0	62.7-140	L750364-01	WG773130
n-Propylbenzene	mg/kg	0.0948	0.0	.025	76.0	10-176	L750364-01	WG773130
Naphthalene	mg/kg	0.102	0.00108	.025	81.0	58-135	L750364-01	WG773130
p-Isopropyltoluene	mg/kg	0.0892	0.0	.025	71.0	63.2-139	L750364-01	WG773130
sec-Butylbenzene	mg/kg	0.0981	0.0	.025	78.0	62.2-136	L750364-01	WG773130
Styrene	mg/kg	0.102	0.0	.025	82.0	66.8-133	L750364-01	WG773130
tert-Butylbenzene	mg/kg	0.102	0.0	.025	82.0	63.3-134	L750364-01	WG773130
Tetrachloroethene	mg/kg	0.103	0.00354	.025	79.0	53-139	L750364-01	WG773130

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Est. 1970

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Andy Bajorat
500 North Dearborn Street, Suite 712
Chicago, IL 60654

Quality Assurance Report
Level II

L750695

March 03, 2015

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Toluene	mg/kg	0.103	0.0	.025	83.0	61.4-130	L750364-01	WG773130
trans-1,2-Dichloroethene	mg/kg	0.0996	0.0	.025	80.0	56.5-129	L750364-01	WG773130
trans-1,3-Dichloropropene	mg/kg	0.106	0.0	.025	85.0	64.1-128	L750364-01	WG773130
Trichloroethene	mg/kg	0.122	0.0	.025	98.0	44.1-149	L750364-01	WG773130
Trichlorofluoromethane	mg/kg	0.102	0.0	.025	82.0	49.6-145	L750364-01	WG773130
Vinyl chloride	mg/kg	0.101	0.0	.025	81.0	47.8-137	L750364-01	WG773130
Xylenes, Total	mg/kg	0.293	0.0	.075	78.0	63.3-131	L750364-01	WG773130
4-Bromofluorobenzene					98.70	71-126		WG773130
Dibromofluoromethane					102.0	78.3-121		WG773130
Toluene-d8					102.0	88.5-111		WG773130
PCB 1016	mg/kg	0.118	0.0	.1667	71.0	23.9-147	L750695-04	WG772883
PCB 1260	mg/kg	0.113	0.0	.1667	68.0	24.6-127	L750695-04	WG772883
Decachlorobiphenyl					73.10	10-143		WG772883
Tetrachloro-m-xylene					84.50	29.2-144		WG772883
TPH (GC/FID) Low Fraction	mg/kg	20.2	1.46	5.5	68.0	28.5-138	L750685-01	WG772908
a,a,a-Trifluorotoluene(FID)					96.50	59-128		WG772908
Benzene	mg/kg	0.0356	0.0	.05	71.0	49.7-127	L750695-07	WG773375
Ethylbenzene	mg/kg	0.0367	0.0	.05	74.0	40.8-141	L750695-07	WG773375
Toluene	mg/kg	0.0353	0.0	.05	71.0	49.8-132	L750695-07	WG773375
Total Xylene	mg/kg	0.111	0.000147	.15	74.0	41.2-140	L750695-07	WG773375
a,a,a-Trifluorotoluene(PID)					97.30	54-144		WG773375
p-Isopropyltoluene	mg/kg	0.127	0.0	.025	100.	63.2-139	L751061-01	WG773186
4-Bromofluorobenzene					98.10	71-126		WG773186
Dibromofluoromethane					93.90	78.3-121		WG773186
Toluene-d8					103.0	88.5-111		WG773186

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Arsenic	mg/l	1.03	1.03	103.	75-125	0.0	20	L750660-02	WG772807
Barium	mg/l	1.09	1.10	97.8	75-125	1.00	20	L750660-02	WG772807
Cadmium	mg/l	0.996	1.01	99.6	75-125	1.00	20	L750660-02	WG772807
Chromium	mg/l	0.958	0.964	95.1	75-125	1.00	20	L750660-02	WG772807
Lead	mg/l	1.02	1.03	100.	75-125	1.00	20	L750660-02	WG772807
Selenium	mg/l	1.08	1.05	108.	75-125	3.00	20	L750660-02	WG772807
Silver	mg/l	0.959	0.972	95.8	75-125	1.00	20	L750660-02	WG772807
Chromium,Hexavalent	mg/kg	21.4	21.2	107.	75-125	0.939	20	L750698-06	WG772886
Mercury	mg/kg	0.356	0.629	0*	75-125	56.0*	20	L750670-01	WG772852
Arsenic	mg/kg	85.9	93.4	81.8	75-125	8.00	20	L750660-10	WG772804
Barium	mg/kg	146.	158.	80.1	75-125	8.00	20	L750660-10	WG772804
Cadmium	mg/kg	83.8	90.1	83.8	75-125	7.00	20	L750660-10	WG772804
Lead	mg/kg	106.	116.	88.1	75-125	9.00	20	L750660-10	WG772804
Selenium	mg/kg	82.3	88.6	82.2	75-125	7.00	20	L750660-10	WG772804
Silver	mg/kg	84.5	90.7	84.9	75-125	7.00	20	L750660-10	WG772804
Chromium	mg/kg	97.8	117.	77.7	75-125	18.0	20	L750660-10	WG772804

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Quality Assurance Report
Level II

L750695

March 03, 2015

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Acenaphthene	mg/kg	0.289	0.285	72.3	48.3-126	1.60	20	L750787-01	WG772885
Acenaphthylene	mg/kg	0.288	0.286	71.9	48.7-128	0.500	20	L750787-01	WG772885
Anthracene	mg/kg	0.303	0.299	75.7	41-133	1.40	20	L750787-01	WG772885
Benzo(a)anthracene	mg/kg	0.296	0.290	73.9	31.6-136	1.76	20	L750787-01	WG772885
Benzo(a)pyrene	mg/kg	0.296	0.288	74.1	28-137	2.92	20.5	L750787-01	WG772885
Benzo(b)fluoranthene	mg/kg	0.285	0.275	71.3	24-134	3.83	24.3	L750787-01	WG772885
Benzo(g,h,i)perylene	mg/kg	0.311	0.303	77.6	19.1-139	2.34	23.4	L750787-01	WG772885
Benzo(k)fluoranthene	mg/kg	0.289	0.286	72.1	30.4-134	1.07	24.7	L750787-01	WG772885
Chrysene	mg/kg	0.294	0.295	73.6	32.4-137	0.0700	20	L750787-01	WG772885
Dibenz(a,h)anthracene	mg/kg	0.311	0.304	77.8	30.3-135	2.41	22.5	L750787-01	WG772885
Fluoranthene	mg/kg	0.287	0.283	71.9	32.8-139	1.62	20	L750787-01	WG772885
Fluorene	mg/kg	0.285	0.279	71.4	43-129	2.28	20	L750787-01	WG772885
Indeno(1,2,3-cd)pyrene	mg/kg	0.313	0.305	78.2	22.3-139	2.53	23.6	L750787-01	WG772885
Naphthalene	mg/kg	0.284	0.282	69.8	38.1-135	0.890	20	L750787-01	WG772885
Phenanthrene	mg/kg	0.283	0.279	70.8	36.2-134	1.54	20	L750787-01	WG772885
Pyrene	mg/kg	0.319	0.316	79.9	30.3-144	1.21	21.7	L750787-01	WG772885
2-Fluorobiphenyl				71.10	41.4-134				WG772885
Nitrobenzene-d5				78.20	28.3-148				WG772885
p-Terphenyl-d14				75.40	35.8-140				WG772885
TPH (GC/FID) High Fraction	mg/kg	66.4	67.1	108.	50-150	1.03	20	L750685-01	WG772876
o-Terphenyl				92.20	50-150				WG772876
Mercury	mg/l	0.00345	0.00350	116.	80-120	1.00	20	L750660-04	WG772929
Hexavalent Chromium-Low Level	mg/l	0.000992	0.00102	95.6	90-110	2.78	20	L750483-27	WG772860
1,1,1,2-Tetrachloroethane	mg/kg	0.109	0.109	86.9	64-128	0.590	20	L750364-01	WG773130
1,1,1-Trichloroethane	mg/kg	0.108	0.108	86.2	58.7-134	0.0500	20	L750364-01	WG773130
1,1,2,2-Tetrachloroethane	mg/kg	0.0837	0.0767	67.0	56-132	8.79	22.2	L750364-01	WG773130
1,1,2-Trichloroethane	mg/kg	0.114	0.112	91.2	66.3-125	1.41	20	L750364-01	WG773130
1,1,2-Trichlorotrifluoroethane	mg/kg	0.104	0.110	83.1	54.8-154	6.02	22.5	L750364-01	WG773130
1,1-Dichloroethane	mg/kg	0.113	0.113	90.2	58.5-132	0.610	20	L750364-01	WG773130
1,1-Dichloroethene	mg/kg	0.0997	0.111	79.7	51.1-140	10.8	20.2	L750364-01	WG773130
1,1-Dichloropropene	mg/kg	0.0980	0.102	78.4	57.3-136	4.45	20	L750364-01	WG773130
1,2,3-Trichlorobenzene	mg/kg	0.0817	0.0767	65.4	59.1-138	6.26	23.7	L750364-01	WG773130
1,2,3-Trichloropropane	mg/kg	0.123	0.110	98.4	61.4-128	11.4	22.4	L750364-01	WG773130
1,2,3-Trimethylbenzene	mg/kg	0.101	0.0998	80.8	61.3-122	1.18	20	L750364-01	WG773130
1,2,4-Trichlorobenzene	mg/kg	0.0708	0.0719	56.6*	63.6-143	1.50	21.9	L750364-01	WG773130
1,2,4-Trimethylbenzene	mg/kg	0.0897	0.0920	71.8	57.4-137	2.45	20	L750364-01	WG773130
1,2-Dibromo-3-Chloropropane	mg/kg	0.128	0.109	102.	57.3-136	16.3	27	L750364-01	WG773130
1,2-Dibromoethane	mg/kg	0.119	0.110	95.2	67.1-125	7.53	20	L750364-01	WG773130
1,2-Dichlorobenzene	mg/kg	0.0983	0.0958	78.6	68.2-123	2.55	20	L750364-01	WG773130
1,2-Dichloroethane	mg/kg	0.117	0.110	93.2	60-126	5.63	20	L750364-01	WG773130
1,2-Dichloropropane	mg/kg	0.123	0.123	98.6	64.2-123	0.280	20	L750364-01	WG773130
1,3,5-Trimethylbenzene	mg/kg	0.0895	0.0930	71.6	63.6-132	3.83	20.5	L750364-01	WG773130
1,3-Dichlorobenzene	mg/kg	0.0825	0.0837	66.0	63.1-131	1.41	20	L750364-01	WG773130
1,3-Dichloropropane	mg/kg	0.116	0.110	93.1	67.9-121	5.63	20	L750364-01	WG773130
1,4-Dichlorobenzene	mg/kg	0.0867	0.0826	69.3	68.6-123	4.81	20	L750364-01	WG773130
2,2-Dichloropropane	mg/kg	0.103	0.0954	82.6	50.5-144	7.84	21.9	L750364-01	WG773130
2-Butanone (MEK)	mg/kg	0.802	0.703	128.	22.4-138	13.1	27	L750364-01	WG773130
2-Chloroethyl vinyl ether	mg/kg	0.759	0.704	121.	10-155	7.51	40	L750364-01	WG773130
2-Chlorotoluene	mg/kg	0.0915	0.0946	73.2	63.6-128	3.30	20	L750364-01	WG773130
4-Chlorotoluene	mg/kg	0.0896	0.0907	71.7	65.7-127	1.14	20	L750364-01	WG773130
4-Methyl-2-pentanone (MIBK)	mg/kg	0.783	0.684	125.	60.8-140	13.5	25.1	L750364-01	WG773130

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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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Andy Bajorat
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Quality Assurance Report
Level II

March 03, 2015

L750695

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Acetone	mg/kg	0.718	0.615	114.	10-130	15.5	27.9	L750364-01	WG773130
Acrylonitrile	mg/kg	0.719	0.648	115.	49.4-133	10.4	25.3	L750364-01	WG773130
Benzene	mg/kg	0.111	0.111	89.1	54.3-133	0.710	20	L750364-01	WG773130
Bromobenzene	mg/kg	0.100	0.0993	80.3	63.9-124	1.06	20	L750364-01	WG773130
Bromodichloromethane	mg/kg	0.116	0.112	92.9	63.9-121	3.81	20	L750364-01	WG773130
Bromoform	mg/kg	0.120	0.114	96.4	59.5-134	5.44	20.8	L750364-01	WG773130
Bromomethane	mg/kg	0.0981	0.0856	78.4	41.7-155	13.5	20.5	L750364-01	WG773130
Carbon tetrachloride	mg/kg	0.109	0.109	87.6	55.7-134	0.890	20.3	L750364-01	WG773130
Chlorobenzene	mg/kg	0.0997	0.103	79.8	67-125	3.14	20	L750364-01	WG773130
Chlorodibromomethane	mg/kg	0.117	0.115	93.2	64.3-125	1.12	20	L750364-01	WG773130
Chloroethane	mg/kg	0.0965	0.100	77.2	51.5-136	3.79	20.8	L750364-01	WG773130
Chloroform	mg/kg	0.113	0.110	90.6	63-129	3.20	20	L750364-01	WG773130
Chloromethane	mg/kg	0.0943	0.104	75.4	42.4-135	10.2	20	L750364-01	WG773130
cis-1,2-Dichloroethene	mg/kg	0.113	0.110	90.0	59.2-129	2.06	20	L750364-01	WG773130
cis-1,3-Dichloropropene	mg/kg	0.111	0.106	89.0	66.4-125	4.80	20	L750364-01	WG773130
Di-isopropyl ether	mg/kg	0.123	0.115	98.1	56.9-136	6.63	20	L750364-01	WG773130
Dibromomethane	mg/kg	0.126	0.115	101.	68.2-124	9.24	20	L750364-01	WG773130
Dichlorodifluoromethane	mg/kg	0.0853	0.0932	68.2	40.6-144	8.90	20.2	L750364-01	WG773130
Ethylbenzene	mg/kg	0.0952	0.100	76.2	61.4-133	4.89	20	L750364-01	WG773130
Hexachloro-1,3-butadiene	mg/kg	0.0792	0.0879	63.4	55.1-136	10.4	23.6	L750364-01	WG773130
Isopropylbenzene	mg/kg	0.0942	0.0988	75.4	66.8-141	4.82	20	L750364-01	WG773130
Methyl tert-butyl ether	mg/kg	0.127	0.116	102.	57.7-134	9.17	20	L750364-01	WG773130
Methylene Chloride	mg/kg	0.107	0.105	85.8	58.1-122	2.04	20	L750364-01	WG773130
n-Butylbenzene	mg/kg	0.0844	0.0897	67.5	62.7-140	6.05	20	L750364-01	WG773130
n-Propylbenzene	mg/kg	0.0888	0.0948	71.0	10-176	6.51	26.6	L750364-01	WG773130
Naphthalene	mg/kg	0.114	0.102	90.6	58-135	11.4	25.5	L750364-01	WG773130
p-Isopropyltoluene	mg/kg	0.0861	0.0892	68.9	63.2-139	3.51	20.4	L750364-01	WG773130
sec-Butylbenzene	mg/kg	0.0929	0.0981	74.4	62.2-136	5.41	20.3	L750364-01	WG773130
Styrene	mg/kg	0.101	0.102	80.8	66.8-133	1.40	20	L750364-01	WG773130
tert-Butylbenzene	mg/kg	0.100	0.102	80.3	63.3-134	1.46	20.3	L750364-01	WG773130
Tetrachloroethene	mg/kg	0.0902	0.103	69.3	53-139	13.0	20	L750364-01	WG773130
Toluene	mg/kg	0.102	0.103	81.8	61.4-130	1.16	20	L750364-01	WG773130
trans-1,2-Dichloroethene	mg/kg	0.0966	0.0996	77.3	56.5-129	3.13	20	L750364-01	WG773130
trans-1,3-Dichloropropene	mg/kg	0.105	0.106	83.8	64.1-128	1.04	20	L750364-01	WG773130
Trichloroethene	mg/kg	0.122	0.122	98.0	44.1-149	0.0100	20	L750364-01	WG773130
Trichlorofluoromethane	mg/kg	0.106	0.102	84.8	49.6-145	3.48	21.2	L750364-01	WG773130
Vinyl chloride	mg/kg	0.0969	0.101	77.5	47.8-137	3.90	20	L750364-01	WG773130
Xylenes, Total	mg/kg	0.278	0.293	74.1	63.3-131	5.20	20	L750364-01	WG773130
4-Bromofluorobenzene				95.80	71-126				WG773130
Dibromofluoromethane				101.0	78.3-121				WG773130
Toluene-d8				99.70	88.5-111				WG773130
PCB 1016	mg/kg	0.139	0.118	83.3	23.9-147	16.1	25.8	L750695-04	WG772883
PCB 1260	mg/kg	0.137	0.113	82.2	24.6-127	19.6	20	L750695-04	WG772883
Decachlorobiphenyl				82.00	10-143				WG772883
Tetrachloro-m-xylene				92.30	29.2-144				WG772883
TPH (GC/FID) Low Fraction	mg/kg	18.4	20.2	61.4	28.5-138	9.38	23.6	L750685-01	WG772908
a,a,a-Trifluorotoluene(FID)				95.40	59-128				WG772908
Benzene	mg/kg	0.0156	0.0356	31.2*	49.7-127	78.1*	23.5	L750695-07	WG773375
Ethylbenzene	mg/kg	0.0128	0.0367	25.5*	40.8-141	96.8*	23.8	L750695-07	WG773375
Toluene	mg/kg	0.0139	0.0353	27.8*	49.8-132	86.9*	23.5	L750695-07	WG773375
Total Xylene	mg/kg	0.0384	0.111	25.5*	41.2-140	97.6*	23.7	L750695-07	WG773375
a,a,a-Trifluorotoluene(PID)				97.10	54-144				WG773375

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Level II

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March 03, 2015

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Matrix Spike Duplicate									
p-Isopropyltoluene	mg/kg	0.135	0.127	108.	63.2-139	5.77	20.4	L751061-01	WG773186
4-Bromofluorobenzene				105.0	71-126				WG773186
Dibromofluoromethane				91.40	78.3-121				WG773186
Toluene-d8				104.0	88.5-111				WG773186
Post Spike									
Serial Dilution									

Batch number /Run number / Sample number cross reference

WG772824: R3022265: L750695-05 06 07 08
WG772823: R3022266: L750695-01 02 03 04
WG772807: R3022298: L750695-09 10
WG772886: R3022374: L750695-01 02
WG772659: R3022384 R3022667: L750695-09 10
WG772852: R3022397: L750695-01 02
WG772804: R3022407 R3022529: L750695-01 02
WG772885: R3022412 R3022588: L750695-01 02 03 04 05 06 07 08
WG772829: R3022426: L750695-09 10
WG772872: R3022430: L750695-01 02
WG772876: R3022469 R3022549: L750695-03 04 05 06
WG773130: R3022512: L750695-01 02
WG772929: R3022519: L750695-09 10
WG772860: R3022540: L750695-09 10
WG772883: R3022610: L750695-01 02 03 04 05
WG772908: R3022640: L750695-03 04 05

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WG772926: R3022678: L750695-09 10
WG773036: R3022694: L750695-01 02
WG773375: R3022722: L750695-07 08
WG773186: R3022723: L750695-01

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

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

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

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