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Ms. Kristen Hanson
Lac du Flambeau Band of Lake Superior Chippewa Indians
Environmental Response Program
14258 State Highway 70W
Lac du Flambeau, WI 54538

August 6, 2014

Sent via email: *ldfbrownfields@frontier.com*

RE: Summary of Findings
June 2014 Vertical Aquifer Sampling
Haskell Lake Area Groundwater Investigation

Dear Ms. Hanson:

Weston Solutions, Inc. (WESTON®) has prepared this letter and associated maps and table to describe the completed scope of work (SOW) and findings pertaining to the characterization of groundwater quality at four new vertical aquifer sampling (VAS) locations at the Haskell Lake Area Groundwater Investigation site (the Site) in Lac Du Flambeau, Vilas County, Wisconsin. Per our May 23, 2014 SOW letter, WESTON conducted VAS at these locations on June 26 and 27, 2014 to more fully characterize the groundwater chemistry for petroleum-related volatile organic compounds (VOCs), with a focus on establishing the relative risks to drinking water wells, Haskell Lake, and the unnamed pond at the Site. WESTON performed this work for the Lac du Flambeau Band of Lake Superior Chippewa Indians (Tribe). Field and analytical results from the December 2013 VAS effort, which were presented in WESTON's February 2014 *Summary of Findings* document, were used to plan the June 2014 VAS SOW. Portions of the February 2014 *Summary of Findings* document have been retained as applicable, with updates incorporated based on the June 2014 results.

Summary of December 2013 Investigative Findings

The December 2013 VAS results for VAS-08 located approximately 70 feet (ft) east of the former Tower Standard Service Site underground storage tank (UST) basin (and more than 100 ft east of the former gasoline dispensers) showed that gasoline-related impacts to the unconfined aquifer extend from near the top of the water table to the top of bedrock approximately 61 ft below grade, with the highest zone of impact at approximately 25 ft below grade having more than 45,000 micrograms per liter (ug/L) of total petroleum VOCs.

The December 2013 VAS results for VAS-11 located approximately 350 ft southwest of the former Tower Standard Service Site UST basin and adjacent to the north shore of Haskell Lake showed that gasoline-related impacts to the unconfined aquifer also extend from the top of the water table to the top of bedrock approximately 56 ft below grade, with the highest zone of impact (including petroleum odors and a sheen) at approximately 40 ft below grade having more than 2,400 ug/L of total petroleum VOCs. In addition, the deepest sample at the top of the bedrock had more than 1,200 ug/l of total petroleum VOCs. Petroleum odors were observed in purged groundwater from all of the VAS-08 and VAS-11 intervals except the shallow-most intervals.

Site Description and Background

The Site is located near the southeast corner of state Highway 70 West and County Road D in Lac du Flambeau, Vilas County, Wisconsin (**Figure 1**) in the southeast quarter of the southwest quarter (SE ¼ of the

SW ¼) of Section 30, Township 40 North (T40N), Range 5 East (R5E), on the United States Geological Survey (USGS) map of the Lac du Flambeau area. The Site is bordered to the north by state Highway 70 West, to the south by Haskell Lake, and to the northwest by the Haskell Lake Lodge and a bait shop (formerly the Tower Standard Services gasoline station). A former restaurant (Timberland Tower) is located immediately northeast of the Site. The Tribe's Land Management Office is located at the northwest corner of the County Road D – Highway 70 intersection. Each active business mentioned above maintains a private drinking water well.

The Highway 70 Former Fireworks Stand TBA Site is directly north of state Highway 70 West. It consists of approximately 1.13 acres and is currently vacant. In October 2006, a building at the Site caught fire and burned. The building housed a fireworks stand, pawn shop, and an automobile repair shop before it was severely damaged by the fire. A former gasoline station was also reportedly on that property.

Four former leaking underground storage tank (LUST) sites are located within a half mile of the Site: Grizzly Bills Gasoline Station east of the Former Fireworks Stand, the Tower Motel (now Haskell Lake Lodge), Timberland Tower (the former restaurant), and the Tower Standard Service site. All four LUST sites are listed as having attained "closed" status between 1994 and 2006 according to the WDNR Bureau for Remediation and Redevelopment Tracking System. The former Tower Standard Service LUST site is now occupied by the bait shop.

Site Setting

The ground elevation at the Site is approximately 1,575 ft above mean sea level (amsl), sloping downward to Haskell Lake, which has a surface water elevation of approximately 1,564 ft amsl. According to the Water Resources of Vilas County, Wisconsin, prepared and published by the USGS and the University of Wisconsin-Extension Geological and Natural History Survey, Pleistocene sediment (primarily sand and gravel till units) overlies Precambrian (crystalline) bedrock in the Site area. Well records from the area indicate that the depth to bedrock is 75 to 100 ft below grade, although the 2013 and 2014 VAS drilling refusals at shallower depths (approximately 50 to 60 ft below grade) exhibited characteristics indicative of a sloping or hummocky bedrock surface.

Groundwater within the Pleistocene sediment is present mostly as an unconfined shallow aquifer, with localized lenses of silty clay documented across the study area, especially along Highway 70 West. During the 2010-2011 TBA project, WESTON personnel collected multiple rounds of static groundwater and surface water elevations to help in determining the direction of local groundwater flow. Based on the most recent TBA measurements on May 12, 2011, shallow potentiometric surface contours were established as shown on **Figure 2**, which illustrates the interaction/connection between groundwater and multiple natural surface water bodies including Haskell Creek northwest of the Site, Tower Creek northeast of the Site, and Haskell Lake south of the Site. Localized groundwater flow south of Highway 70 West is southward toward Haskell Lake.

From VAS-08 to Haskell Lake, the May 2011 horizontal hydraulic gradient is calculated as 0.021 ft/ft. Using an assumed shallow aquifer hydraulic conductivity of 12.5 ft/day (typical for a glacial outwash deposit) and an effective porosity estimate of 25 percent, a groundwater seepage velocity is calculated as approximately 1.05 ft/day or 383 ft/year (from VAS-08 to Haskell Lake).

June 2014 Field and Laboratory SOW

The focus of the June 2014 VAS effort was to further characterize groundwater at the northern edge of Haskell Lake to evaluate the width of the groundwater plume and advance the current understanding of groundwater-surface water interface (GSI) conditions where the petroleum VOC plume migrates beneath Haskell Lake.

Two days of VAS were conducted with the use of a Geoprobe drill rig operated by WESTON subcontractor Coleman Engineering Company of Iron Mountain, Michigan. Four VAS borings were advanced. As shown on **Figure 2**, the first three locations (VAS-01 through VAS-03) were located along the northern margin of Haskell Lake approximately 100 ft west, 100 ft northeast, and 230 ft further east of VAS-11. All VAS procedures were the same as those applied during the December 2013 field effort, and the same WESTON geologist conducted the field work. At each location, the Geoprobe tooling equipped with a SP-16 sampler was advanced to the anticipated top of bedrock (approximately 50 ft below grade). Once the desired depth was attained, the tooling was pulled up to expose the 5 ft long stainless steel sampling screen (SP-16 sampler) at each interval. Groundwater samples were collected at approximate 15 ft intervals starting from the boring terminus upward to the surface of the groundwater table (as shallow as 5 ft below grade). Groundwater samples were collected by pumping groundwater from the SP-16 sampler using a peristaltic pump and clean polyethylene tubing. A minimum of three tooling/tubing volumes of groundwater was purged prior to collecting each groundwater sample. During sampling, pH, temperature, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured during the purging process using a YSI water quality meter (Model 556) calibrated daily. A total of 10 investigative VAS samples were collected from these three locations, at depths ranging from 5 ft to 50 ft below grade.

The fourth VAS boring (VAS-04) was advanced approximately 120 ft southeast of VAS-08 based on field observations and discussions with your office (**Figure 2**). No water could be purged from the shallow-most depth of VAS-01, or from the two shallow-most depths of VAS-04, likely due to fine grained soils such as silty clay layers being locally present.

All investigation derived waste water (IDW) generated from the VAS purging and the equipment steam cleaning tasks was containerized in properly labeled Department of Transportation approved 55 gallon drums by WESTON's subcontractor for subsequent characterization and disposal by the Tribe.

All of the VAS groundwater samples were collected in clean laboratory supplied containers and placed directly on ice. They were submitted to ESC Lab Sciences (ESC) in Nashville, Tennessee, a certified laboratory, for Wisconsin Department of Natural Resources (WDNR) approved VOC analyses using standard turnaround times. For quality control/quality assurance purposes, one duplicate sample, one trip blank sample, and one equipment rinsate blank sample were also analyzed for VOCs.

The Geoprobe drill rods and all reusable sampling equipment that contacted the soil and groundwater were decontaminated between boring locations using steam cleaning methods. Disposable sample tubing was used to prevent cross contamination between VAS intervals. Upon the completion of each VAS boring, bentonite chips were poured into the borehole annular space to seal the near-surface and further prevent downward migration of potential contamination.

Summary of June 2014 VAS Sample Analyses

VAS Sample Analyses	VAS-01 Sample Intervals	VAS-02 Sample Intervals	VAS-03 Sample Intervals	VAS-04 Sample Intervals
VOCs	20, 35, 50 ft	5, 20, 35/Duplicate, 45 ft	11, 26, 41 ft	31, 46 ft

WESTON received all laboratory analytical reports on July 7, 2014 and forwarded the reports to your office via electronic mail (email) on January 14, 2014. The laboratory analytical reports are also attached to this letter report. **Table 1** lists all VAS intervals with corresponding detected constituents for each of the selected analytical scans, with the December 2013 results provided on page 1 and the June 2014 results provided on page 2. **Table 1** compares the detections to applicable WDNR cleanup criteria/water quality standards dated January 2012: Enforcement Standards (ESs) and Preventative Action Limits (PALs). The Tribe's February 2009 Groundwater Cleanup Standards (CSs) are also listed. The maps present plan view (**Figure 3**) and cross sectional views (**Figures 4** through **7**) of the groundwater chemistry results.

Field Observations

While no drilling logs or stratigraphic information was gathered during the June 2014 (or December 2013) VAS field work (due to the blind-drilling methods deployed), other field observations were made that provide indications of groundwater impacts (such as sample odor) and other geochemical processes (based on field parameter measurements). The WESTON geologist recorded all VAS purging and sampling observations on the attached field sampling sheets, and kept a general log of the field work on the attached field log book copies.

At VAS-01, VAS-03, and VAS-04, there were no noticeable petroleum odors documented at any VAS intervals. At VAS-02 located directly downgradient of VAS-08 (the December 2013 location in the parking area between the former restaurant and the bait shop), slight to strong petroleum odors were documented at all VAS sample intervals except 45 ft (per the sampling sheets and field log book). No petroleum sheens were documented in the June 2014 VAS borings (December 2013 VAS location VAS-11 exhibited slight sheens indicative of potential non-aqueous phase liquid [NAPL]).

Field parameter measurements at VAS-02 (and December 2013 locations VAS-08 and VAS-11) may reflect geochemical effects related to the petroleum plume concentrations (i.e. plume strength), depths within the aquifer, and probable biodegradation factors. The primary interpretations derived from the limited data set of December 2013 and June 2014 field parameters are listed below:

- Although the highest petroleum impacts occurred at VAS-08 at the 25 ft depth interval, that sample had the highest ORP (within VAS-08) – which is a favorable indicator of aerobic biodegradation of petroleum constituents (i.e. gasoline plus GRO/DRO organic compounds).
- The highest DO levels were measured outside the apparent petroleum plume footprint, at VAS-01 and VAS-03 with maximum DO levels of 8.07 and 8.30 mg/L, respectively. The lowest DO levels were generally measured within the petroleum plume footprint, at VAS-02, VAS-08, and VAS-11 with maximum DO levels of 1.55, 1.14, and 0.98 mg/L, respectively. These DO variances demonstrate that the aerobic degradation process is consuming DO within those portions of the aquifer that are impacted with petroleum constituents.

- DO levels generally decrease with depth at VAS-02, VAS-08, and VAS-11, which is typical for a relatively thick unconfined aquifer. Those DO decreases may or may not be related to ongoing aerobic biodegradation of petroleum constituents.
- The range of measured pH during December 2013 was 6.03 to 7.61, a favorable range for petroleum constituent biodegradation. The June 2014 pH measurements ranged from 8.24 to 10.88, noticeably higher than prior readings, including VAS locations that were relatively close together such as VAS-02 and VAS-11 near Haskell Lake. These variances may be due to pH meter functionality (the WESTON geologist calibrated all field parameter meters daily), or less likely, due to seasonal pH variations.
- The measured specific conductivity values are not directly proportional to ORP, suggesting that the higher conductivity values may not indicate reducing conditions (as can be the case). Reducing conditions are unfavorable for aerobic biodegradation of petroleum constituents.
- For the December 2013 VAS borings, only two of the seven ORP readings were negative, in the deepest sample interval at each VAS location. These negative ORP readings did not correlate with the VAS intervals having the highest VOC concentrations, which also indicated that reducing conditions had not developed in the zones of highest impact. This is also a favorable condition which may promote the biodegradation of VOCs. For the June 2014 VAS borings however, seven of the eight ORP readings were negative, regardless of VOCs being present or not present.

Analytical Results

As listed in **Table 1** and illustrated on **Figures 3** through **7**, several petroleum-related VOCs were detected at each of the VAS intervals at VAS-02, while there were no VOC detections at any of the other three VAS locations.

There were two VOCs (benzene and total xylenes) detected in VAS-02 samples at concentrations exceeding PALs, which are more conservative values than the CSs or ESs. Benzene was the only VOC detected above a CS, ES, and PAL. Total xylenes did not exceed the CS of 10,000 micrograms per liter (ug/L) or the ES of 2,000 ug/L.

Benzene exceeded the CS and ES of 5 ug/L at all four VAS-02 intervals plus the duplicate sample (VAS-02 at 35 ft), with detections ranging from 7.3 to 990 ug/L. Total xylene detections at VAS-02 ranged from 4 to 610 ug/L. The highest benzene and total xylene concentrations were detected at the 35 ft sample interval of VAS-02.

Discussion of Results

Groundwater Plume Extent

The plan view and cross sectional depictions of the groundwater flow and VAS analytical results (**Figures 3** through **7**) illustrate the estimated magnitude and extent of petroleum impacts to the unconfined aquifer present within the study area. Potential impacts to the local surface water bodies (Haskell Lake and the unnamed pond east of Haskell Lake Lodge) are also inferred. Based on the June 2014 VAS results, most of the groundwater plume contours on **Figure 3** have been drawn using solid lines, indicative of a high level of confidence regarding plume definition to the west and east. Dashed lines were used largely to depict the north and northwest plume margins, indicative of some remaining data gaps regarding the actual lateral and vertical extent of petroleum impacts in those directions. As shown on **Figure 3**, the plan view plume

footprint is approximately 250 ft wide (west to east) and 450 ft long (north to south). As also shown on **Figure 3**, there are no closed contour lines at Haskell Lake, representing a remaining data gap for the downgradient plume margin.

Figure 5 is geological cross section A-A', illustrating the petroleum plume in profile extending from Highway 70 southwestward to Haskell Lake, with estimated isoconcentration contour lines of 10, 100, 500, 1,000, and 10,000 ug/L for benzene, the VOC exhibiting the most CS and ES exceedances. The 10,000 ug/L contour line is inferred based on the 9,100 ug/L of benzene detected in the 25 ft sample from VAS-08. While no shallow groundwater sample could be obtained nearer the water table at VAS-08 during December 2013, significant petroleum impacts could extend up from the 25 ft VAS interval to the vadose zone, and those potential impacts could be acting as the continuing contaminant source to the groundwater plume.

Cross section A-A' also shows the water table surface of the unconfined aquifer sloping from north to south, with some groundwater discharge to the unnamed pond and Haskell Lake probable based on the groundwater-surface water interface (GSI) conditions. The inferred bedrock surface is based on the Geoprobe refusals at total depth during the advancement of VAS-04, VAS-08, and VAS-11. As shown, petroleum impacts extend vertically to the top of the inferred bedrock surface, with benzene concentrations as high as 990 ug/L immediately above the bedrock at VAS-11.

The dashed contour lines on **Figure 5** between VAS-11 and Haskell Lake demonstrate remaining data gaps regarding both the downgradient plume extent and the potential upward flow of the plume to the lake. A lack of any nested monitor wells at the Site prohibits a full evaluation of GSI conditions, as no vertical hydraulic gradients can be ascertained. Therefore, the rate of groundwater (and contaminant) discharge to the surface water bodies remains unknown. Some historical Tower Standard Service LUST site maps include nested monitor wells, including MW-13a/MW-13d near VAS-11; these wells no longer exist. Historical water level elevations from those nested wells, if available, could be used to ascertain vertical hydraulic gradients potentially applicable to the ongoing investigation. It should be noted that the ground surface topography decreases immediately south of the southern-most VAS locations, with heavily vegetated wetlands encompassing the approximate 100 ft distance to the northern shoreline of Haskell Lake. This condition limits drill rig access further southward.

Figure 7 is geological cross section B-B', illustrating the petroleum plume in profile extending from west to east along the north side of Haskell Lake, with estimated isoconcentration contour lines of 10, 100, and 1,000 ug/L for benzene. This cross section also shows the inferred bedrock surface based on the Geoprobe refusals at total depth during the advancement of VAS-03 and VAS-11. **Figure 7** illustrates the plume as it migrates generally out from the page southward to/beneath Haskell Lake. The findings at VAS-02 and VAS-11, which had the highest VOC impacts at their two deepest VAS intervals, indicate that downward hydraulic gradients may be a factor in plume migration (in addition to plume density and concentration gradients/diffusivity). The VAS-02 results also confirm the December 2013 VAS-11 results. The findings at VAS-01 and VAS-03, which were both non-detect for all VOCs, define the lateral plume margins.

Risks to Potential Receptors

Based on a review of potable well sampling results provided by your office, VOC impacts to the nearest identified drinking water wells are apparently negligible, including Haskell Lake Lodge, the Bait Shop, and three other wells (1285 Haskell Lake Landing and 1161 Chapman to the southeast, and 14299 W State Highway 70 to the southwest).

All of these cited potable wells are presumed to be screened within the surficial/unconfined aquifer (versus an underlying bedrock aquifer). Because the petroleum VOC impacts extend to the surficial aquifer/bedrock surface, and because this plume condition is indicative of downward hydraulic effects, risks to bedrock aquifer well users remain an undefined concern. In addition, the degree of hydraulic communication between the impacted surficial aquifer and any bedrock aquifer(s) remains uncertain.

Risks posed by the groundwater plume to Haskell Lake and the unnamed pond (to either the surface water or sediments) also remain undefined, as described further above. WESTON is not aware of any surface water or pore water samples collected historically from either of these surface water bodies. The June 2014 VAS effort did confirm that shallow groundwater impacts occur immediately adjacent to the unnamed pond, although lower VOC concentrations occur within the shallow-most portion of the surficial aquifer compared to the deeper portion of the aquifer, where high VOC concentrations occur. The WESTON geologist visually assessed the northern shoreline along Haskell Lake to determine whether the near shore sediments are comprised of muck soils or courser grain sands. This information was desired to aid in the planning of a potential lake sediment pore water study that could determine whether discharging groundwater contaminants are adversely affecting the benthic ecosystem. The visual assessment indicated that the near shore sediments are largely sand, which would enable the placement of pore water sampling devices from the shore (versus from a boat).

Based on the VAS analytical data acquired to date, the petroleum VOCs identified within the groundwater plume are not considered risks due to bioaccumulation in aquatic or benthic organisms; however, if VOC concentrations are high enough in either surface water or sediment, some human health risks could be present due to direct contact, ingestion, and/or inhalation.

The Terminology Reference Section of the United States Environmental Protection Agency Web site defines bioavailability as "*A measure of the physicochemical access that a toxicant has to the biological processes of an organism. The less the bioavailability of a toxicant, the less the toxic effect on the organism.*" Certain polycyclic aromatic hydrocarbons (PAHs) are toxic, mutagenic, or known/suspected carcinogens. High concentrations of PAHs in aquatic environments can result in bioaccumulation in fish and invertebrates. Some of the PAHs (including naphthalene and phenanthrene) detected in the December 2013 VAS-08 and VAS-11 samples have been shown to bioaccumulate at other sites of environmental contamination. PAH concentrations were highest in the VAS-08 samples (the highest concentration of naphthalene was 310 ug/L in the shallow-most VAS-08 sample). VAS-11 PAH concentrations (near Haskell Lake and the unnamed pond) were lower (the highest naphthalene detection was 45 ug/L at 40 ft below grade, but only 1.1 ug/L in the shallow-most sample). PAHs were not analyzed during the June 2014 VAS event.

Plume Origin and Contaminant Fate and Transport

The groundwater plume that has been verified beneath the Site as a result of the December 2013 and June 2014 VAS efforts displays certain characteristics that are indicative of ongoing contaminant sources that continue to impact shallow groundwater in the vicinity of one or more of the former LUST sites along the north and/or south sides of Highway 70 West. Based on the specific plume fingerprints established at the two 2013 VAS locations, both gasoline and diesel releases are apparent, with gasoline being the predominant type of petroleum causing the sizable plume within the unconfined aquifer. As illustrated on **Figure 5** with the inferred 10,000 ug/L isoconcentration contour line, shallow sources of petroleum remain in the vadose zone and/or capillary fringe in the vicinity of VAS-08. VAS-08 is located approximately 80 ft east and hydraulically sidegradient of the former Tower Standard Service Site UST basin; however, that Site remains the most probable source of ongoing groundwater contamination.

The presence of fine grain soil layers within the vadose zone and surficial aquifer, which could extend from the UST basin area eastward to VAS-08, may have provided a preferential migration pathway for petroleum releases from the Tower Standard Service Site. This would explain how the plume apparently spread laterally from the former UST basin. A review of historical reports for that Site indicates that the eastern-most soil borings exhibited highly impacted subsurface soils, and therefore the eastern extent of source area soil contamination was never fully delineated.

WESTON understands that Highway 70 formerly transected the area of VAS-08, which may have further compacted the fine grain soils. In addition, fires destroyed the former restaurant building(s) on two occasions; therefore, burned wood debris with very high carbon content could remain near VAS-08, further promoting the adsorption of residual petroleum constituents to shallow soils and allowing the apparent long-term release of shallow petroleum VOCs to the underlying groundwater.

The groundwater plume identified during this investigation is anticipated to persist for an extended period of time (years) based on the apparent petroleum source strength in the vadose zone and/or capillary fringe in the vicinity of VAS-08, and the current plume characteristics. If petroleum sources remain beneath the paved portion of the former restaurant property, a slow release of contaminants would be expected due to the lack of rain and snowmelt percolation through the asphalt. The sandy surficial aquifer exhibits relatively permeable hydraulic conditions that will enable the ongoing migration of the plume toward the unnamed pond and Haskell Lake.

Lastly, the interaction of groundwater within the deeper portion of the unconfined aquifer with any potential aquifers present within the underlying bedrock formation(s) remains uncharacterized. Because the plume extends to that bedrock surface, consideration of bedrock hydrogeology (and plume impacts) may be important, depending on risks to potential receptors that may have potable wells screened within the bedrock.

WESTON appreciates the opportunity to assist the Tribe with the on-going environmental management activities for the Highway 70 - Haskell Lake Area. If you have any questions or require additional information, please feel free to contact either of the undersigned at (517) 381-5920.

Very truly yours,

WESTON SOLUTIONS, INC.

Paul Bartz, C.P.G.
Senior Geologist

Katie Mooney
Client Services Manager

Attachments

Tables

Table 1
Vertical Aquifer Sampling Analytical Results - December 2013
Haskell Lake Area Groundwater Investigation
Lac du Flambeau Band of Lake Superior Chippewa Indians

					Sample ID	VAS-08 25FT		VAS-08 40FT		VAS-08 55FT		VAS-08 61FT		VAS-11 10FT		VAS-11 25FT		VAS-11 40FT		VAS-11 D 40FT		VAS-11 55FT		EB-1		TRIP BLANK	
					Sample Collection Depth	25 ft		40 ft bgs		55 ft bgs		61 ft		10 ft		25 ft		40 ft bgs				55 ft bgs		NA		NA	
					Collect Date	12/3/2013		12/3/2013		12/3/2013		12/2/2013		12/3/2013		12/3/2013		12/3/2013				12/3/2013		12/3/2013		12/3/2013	
Method	**Parameter**	**Units**	**LDF CS**	**ES**	**PAL**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**
Metals																											
6010B	**Cadmium**	µg/L	*5*	**5**	**0.5**	NA	--	<5.0	--	<5.0	--	NA	--	NA	--	NA	--	<5.0	--	<5.0	--	***6.9***	--	NA	--	NA	--
6010B	**Lead**	µg/L	*15*	**15**	**1.5**	NA	--	***44***	B	***79***	B	NA	--	NA	--	NA	--	**9.4**	--	**7.6**	--	***59***	B	NA	--	NA	--
6010B	Lead,Dissolved	µg/L	*15*	**15**	**1.5**	NA	--	<5.0	--	<5.0	--	NA	--	NA	--	NA	--	<5.0	--	<5.0	--	<5.0	--	NA	--	NA	--
GRO/DRO																											
M /	**TPH (GC/FID) Low Fraction**	µg/L	*1,000*	--	--	NA	--	*1,300*	--	*2,400*	--	NA	--	NA	--	NA	--	*3,800*	--	*3,800*	--	*2,100*	--	NA	--	NA	--
M	**TPH (GC/FID) High Fraction**	µg/L	*1,000*	--	--	NA	--	270	--	320	--	NA	--	NA	--	NA	--	820	--	620	--	200	--	NA	--	NA	--
VOCs																											
8260B	**Benzene**	µg/L	*5*	**5**	**0.5**	***9,100***	--	***59***	--	***43***	--	***27***	--	***22***	--	***230***	--	***1,200***	--	***1,200***	--	***990***	--	<1.0	--	<1.0	--
8260B	**n-Butylbenzene**	µg/L	--	--	--	<25	--	6.1	--	6.4	--	2.9	--	<1.0	--	<1.0	--	1.2	--	1.1	--	<1.0	--	<1.0	--	<1.0	--
8260B	**sec-Butylbenzene**	µg/L	--	--	--	<25	--	2.2	--	2.5	--	1.2	--	<1.0	--	<1.0	--	1.3	--	1.3	--	<1.0	--	<1.0	--	<1.0	--
8260B	**1,2-Dibromoethane**	µg/L	*0.05*	**0.05**	**0.005**	***25***	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--
8260B	**1,2-Dichloroethane**	µg/L	*5*	**5**	**0.5**	<25	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	**1.9**	--	**1.6**	--	**4.2**	--	<1.0	--	<1.0	--
8260B	**Ethylbenzene**	µg/L	*700*	**700**	**140**	***3,000***	--	80	--	97	--	55	--	3.3	--	2.7	--	31	--	30	--	10	--	<1.0	--	<1.0	--
8260B	**Isopropylbenzene**	µg/L	--	--	--	83	--	5.9	--	7.4	--	4.0	--	<1.0	--	2.7	--	14	--	14	--	8.5	--	<1.0	--	<1.0	--
8260B	**p-Isopropyltoluene**	µg/L	--	--	--	<25	--	1.1	--	1.1	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--
8260B	**Methyl tert-butyl ether**	µg/L	*60*	**60**	**12**	<25	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	<1.0	--	3.6	--	2.8	--	8.8	--	<1.0	--	<1.0	--
8260B	**Naphthalene**	µg/L	*40*	**100**	**10**	***550***	--	**23**	--	**31**	--	**23**	--	<5.0	--	**11**	--	***58***	--	***62***	--	**12**	--	<5.0	--	<5.0	--
8260B	**n-Propylbenzene**	µg/L	--	--	--	220	--	20	--	25	--	13	--	1.4	--	5.6	--	29	--	29	--	14	--	<1.0	--	<1.0	--
8260B	**Toluene**	µg/L	*1,000*	**800**	**160**	***20,000***	--	**180**	--	**460**	--	160	--	6.3	--	<5.0	--	21	--	19	--	19	--	<5.0	--	<5.0	--
8260B	**1,2,3-Trimethylbenzene**	µg/L	--	--	--	400	--	30	--	36	--	20	--	2.1	--	7.4	--	44	--	43	--	16	--	<1.0	--	<1.0	--
8260B	**1,2,4-Trimethylbenzene**	µg/L	--	--	--	**1,600**	--	**130**	--	**160**	--	87	--	10	--	35	--	**180**	--	**180**	--	43	--	1.1	--	<1.0	--
8260B	**1,3,5-Trimethylbenzene**	µg/L	--	--	--	**450**	--	38	--	47	--	23	--	2.6	--	5.3	--	31	--	30	--	6.6	--	<1.0	--	<1.0	--
8260B	**Trimethylbenzenes (1,2,4- and 1,3,5-combined)**	µg/L	*480*	**480**	**96**	***2,050***	--	**168**	--	**207**	--	**110**	--	13	--	40	--	**211**	--	**210**	--	50	--	1.1	--	<1.0	--
8260B	**Xylenes, Total**	µg/L	*10,000*	**2,000**	**400**	***12,000***	--	380	--	**470**	--	260	--	29	--	140	--	**890**	--	**1,000**	--	260	--	<3.0	--	<3.0	--
PAHs																											
8270 C-SIM	**Acenaphthene**	µg/L	--	--	--	0.16	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	NA	--
8270 C-SIM	**Benzo(b)fluoranthene**	µg/L	*0.2*	**0.2**	**0.02**	<0.050	--	<0.050	--	<0.050	--	<0.050	--	**0.066**	--	<0.050	--	<0.050	--	**0.051**	--	**0.06**	--	<0.050	--	NA	--
8270 C-SIM	**Fluorene**	µg/L	*400*	**400**	**80**	0.12	--	<0.050	--	0.052	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	NA	--
8270 C-SIM	**Naphthalene**	µg/L	*40*	**100**	**10**	***310***	--	8.5	--	**19**	--	**14**	--	1.1	--	6.3	--	***45***	--	***41***	--	7.8	--	<0.25	--	NA	--
8270 C-SIM	**Phenanthrene**	µg/L	--	--	--	0.1	--	0.059	--	0.094	--	0.088	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	NA	--
8270 C-SIM	**1-Methylnaphthalene**	µg/L	--	--	--	44	--	3.7	--	8.4	--	5.2	--	0.27	--	0.9	--	4.7	--	4.2	--	2.1	--	<0.25	--	NA	--
8270 C-SIM	**2-Methylnaphthalene**	µg/L	--	--	--	86	--	7.3	--	17	--	10	--	0.47	--	0.93	--	4.6	--	4.2	--	2.0	--	<0.25	--	NA	--
PCBs																											
8082 A	All PCBs were non-detect	µg/L	*0.03*	**0.03**	**0.003**	NA	--	<0.50	--	<0.50	--	NA	--	NA	--	NA	--	<0.50	--	<0.50	--	<0.50	--	NA	--	NA	--
Field Parameter Readings/Observations (final reading while purging)																											
pH		S.U.	--	--	--	6.03		7.01		6.3		7.61		--		6.69		6.88		--		7.36		--		--	
Sp. Conductivity		uS/cm	--	--	--	994		1657		1914		888		--		694		901		--		1357		--		--	
DO		mg/L	--	--	--	1.14		0.71		0.90		0.54		--		0.98		0.95		--		0.85		--		--	
ORP		mV	--	--	--	132.6		57.7		95.3		1.0		--		80.9		67.5		--		21.2		--		--	
Petroleum Odor/Sheen		--				Odor		Odor		Moderate Odor		Slight Odor?		--		Slight Odor		Strong Odor/Little Sheen		--		Slight Odor					

Notes:

Bold Result = Exceeds PAL
Bold and Shaded Result = Exceeds ES
Italicized Result = Exceeds LDF CS

Only detected analytes are listed
ES = NR 140.10 Enforcement Standard, Public Health Groundwater Quality Standards, WDNR January 2012
PAL = NR 140.10 Preventative Action Limit, Public Health Groundwater Quality Standards, WDNR January 2012
LDF CS = Lac du Flambeau Groundwater Cleanup Standard, February 2009
ft bgs = feet below ground surface
µg/L = Micrograms per liter
NA = Not analyzed
PAHs = Polycyclic Aromatic Hydrocarbons
PCB = Polychlorinated biphenyl
VOCs = Volatile Organic Compounds
WDNR = Wisconsin Department of Natural Resources
-- = Not available/Not applicable
S.U. = pH Standard Units
uS/cm = microsiemens per centimeter
mg/L = milligrams per liter
mV = millivolts
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

Qualifiers:

J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

EPA-R5-2017-010506_0001858

Table 1
Vertical Aquifer Sampling Analytical Results - June 2014
Haskell Lake Area Groundwater Investigation
Lac du Flambeau Band of Lake Superior Chippewa Indians

					Sample ID	VAS-01 20FT		VAS-01 35FT		VAS-01 50FT		VAS-02 5FT		VAS-02 20FT		VAS-02 35FT		VAS-02 35FT D		VAS-02 45FT		VAS-03 11FT		VAS-03 26FT		VAS-03 41FT		VAS-04 31FT		VAS-04 46FT		FIELD BLANK		TRIP BLANK	
					Sample Collection Depth	20 FT		35 FT		50 FT		5 FT		20 FT		35 FT				45 FT		11 FT		26 FT		41 FT		31 FT		46 FT		NA		NA	
					Collect Date	6/26/2014		6/26/2014		6/26/2014		6/26/2014		6/26/2014		6/26/2014				6/26/2014		6/27/2014		6/27/2014		6/27/2014		6/27/2014		6/27/2014		6/27/2014		6/26/2014	
Method	**Parameter**	**Units**	**LDF CS**	**ES**	**PAL**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**
VOCs																																			
8260B	**Benzene**	µg/L	*5*	**5**	**0.5**	<1.0		<1.0		<1.0		***7.3***		***150***		***970***		***990***		***830***		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**Ethylbenzene**	µg/L	*700*	**700**	**140**	<1.0		<1.0		<1.0		<1.0		<5.0		13		13		<10		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**Isopropylbenzene**	µg/L	--	--	--	<1.0		<1.0		<1.0		<1.0		5.9		12		12		<10		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**n-Propylbenzene**	µg/L	--	--	--	<1.0		<1.0		<1.0		<1.0		11		28		30		<10		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**1,2,3-Trimethylbenzene**	µg/L	--	--	--	<1.0		<1.0		<1.0		<1.0		9.3		30		32		<10		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**1,2,4-Trimethylbenzene**	µg/L	--	--	--	<1.0		<1.0		<1.0		1.3		47		120		130		21		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**1,3,5-Trimethylbenzene**	µg/L	--	--	--	<1.0		<1.0		<1.0		<1.0		<5.0		19		22		<10		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**Trimethylbenzenes (1,2,4- and 1,3,5- combined)**	µg/L	*480*	**480**	**96**	<1.0		<1.0		<1.0		<1.0		47		139		152		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
8260B	**Xylenes, Total**	µg/L	*10,000*	**2,000**	**400**	<3.0		<3.0		<3.0		4.0		120		**590**		**610**		180		<3.0		<3.0		<3.0		<3.0		<3.0		<3.0		<3.0	
Field Parameter Readings/Observations (final reading while purging)																																			
pH		S.U.	--	--	--	--		10.88		--		9.3		9.69		9.79		9.79		--		8.24		--		--		10.61		9.05		--		--	
Specific Conductivity		uS/cm	--	--	--	--		1,460		--		474		560		990		990		--		186		--		--		695		3,173		--		--	
DO		mg/L	--	--	--	--		6.89		--		1.55		10.72		1.3		1.3		--		0.72		--		--		0.97		2.01		--		--	
ORP		mV	--	--	--	--		-453.8		--		-451.9		1.23		-495		-495		--		-390.2		--		--		-486.9		-435.9		--		--	
Petroleum Odor/Sheen		--	--	--	--	--		--		--		Strong Odor		Strong Odor		Strong Odor		Strong Odor		--		Swampy Odor		--		--		--		--		--		--	

Notes:

Bold Result = Exceeds PAL
Bold and Shaded Result = Exceeds ES
Italicized Result = Exceeds LDF CS

Only detected analytes are listed

ES = NR 140.10 Enforcement Standard, Public Health Groundwater Quality Standards, WDNR January 2012

PAL = NR 140.10 Preventative Action Limit, Public Health Groundwater Quality Standards, WDNR January 2012

LDF CS = Lac du Flambeau Groundwater Cleanup Standard, February 2009

ft bgs = feet below ground surface

µg/L = Micrograms per liter

NA = Not analyzed

VOCs = Volatile Organic Compounds

WDNR = Wisconsin Department of Natural Resources

-- = Not available/Not applicable

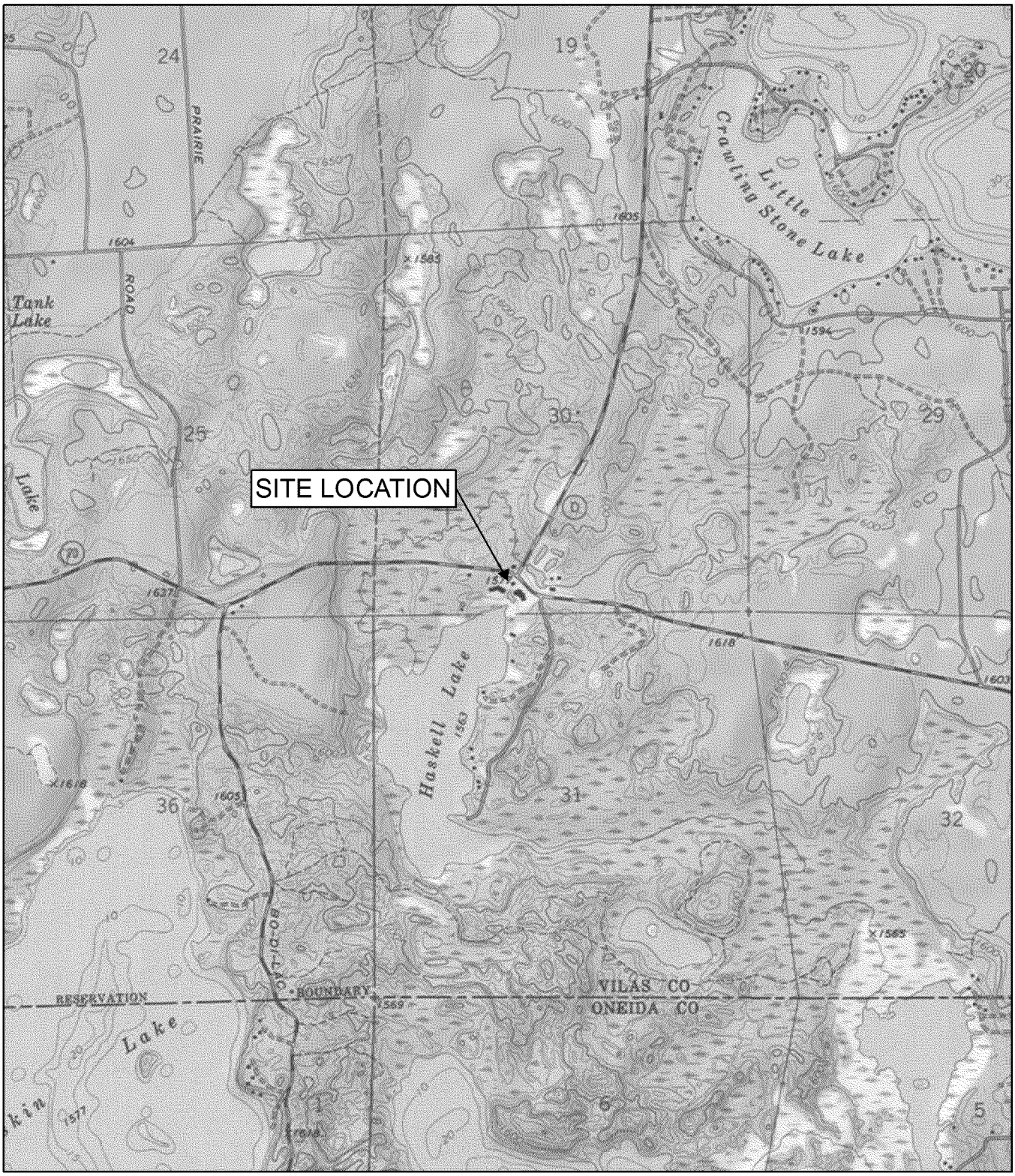
S.U. = pH Standard Units

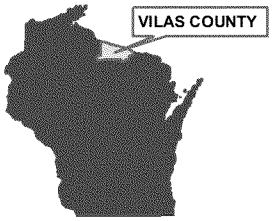
uS/cm = microsiemens per centimeter

mg/L = milligrams per liter

mV = millivolts

Figures





1

0 2,000 4,000 Feet

Figure: 1

WESTON SOLUTIONS

2501 Jolly Road
Suite 100
Okemos, Michigan
48864

SITE LOCATION MAP

HASKELL LAKE AREA
LAC DU FLAMBEAU, VILAS COUNTY, WISCONSIN

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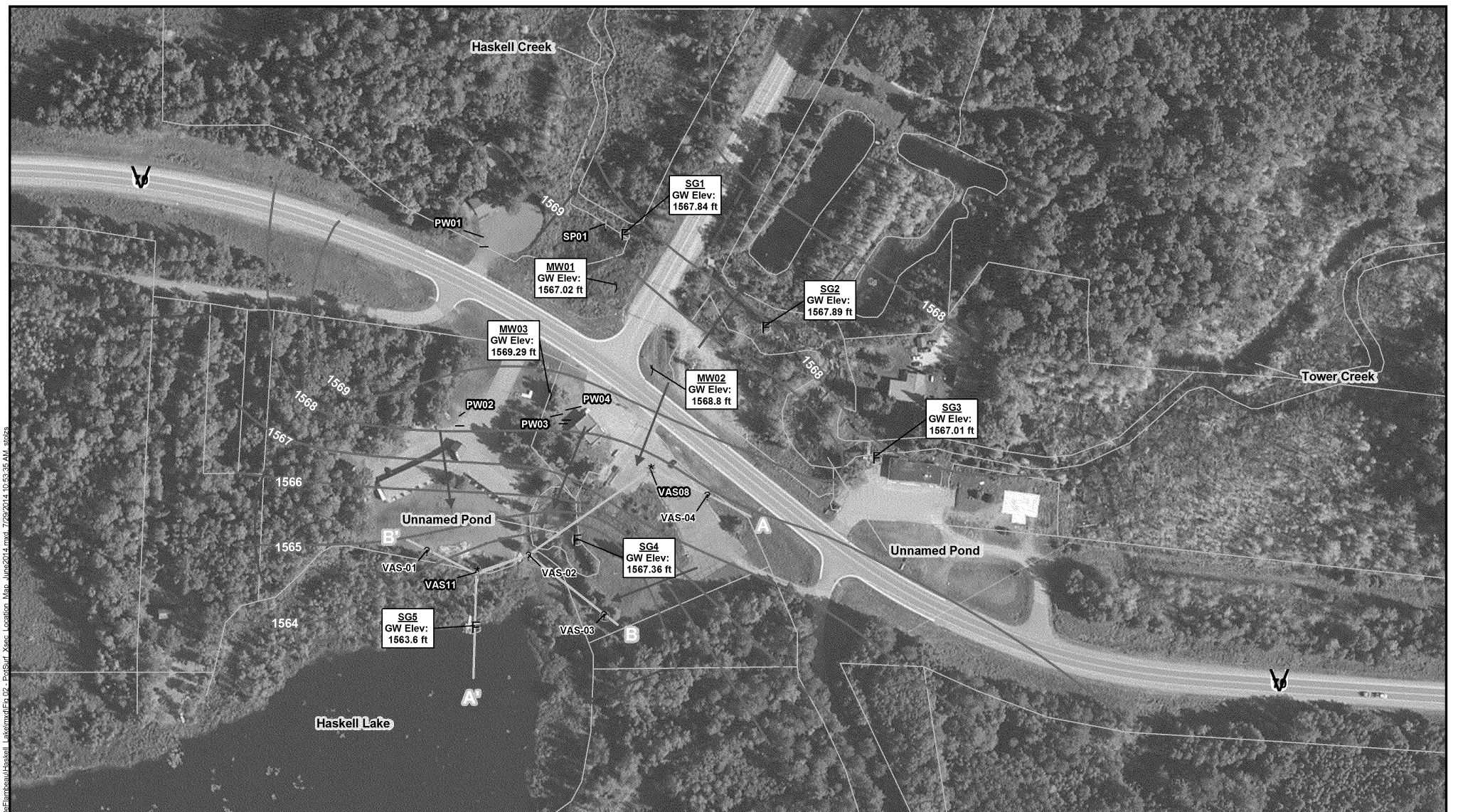

Legend

- Vertical Aquifer Sample (VAS) December 2013
- Residential Well
- Monitoring Well
- Sand Point Screen
- Staff Gauge
- VAS June 2014
- Parcel Boundary
- Cross Section
- Generalized Groundwater Flow
- Potentiometric Surface Contour - May 2011
- Estimated Potentiometric Surface Contour - May 2011

- VAS08 & VAS11 were sampled for perchlorate in 2011 and were redrilled and sampled for petroleum constituents in December 2013
- VAS-01 through VAS-04 were sampled for VOCs in June 2014

0 150 '

3

Prepared By:
WESTON SOLUTIONS, INC.
2501 Jolly Road, Suite 100
Okemos, Michigan 48864

Figure 2
Potentiometric Surface and Cross Section Location Map
Haskell Lake Area
Lac du Flambeau, Vilas County, Wisconsin

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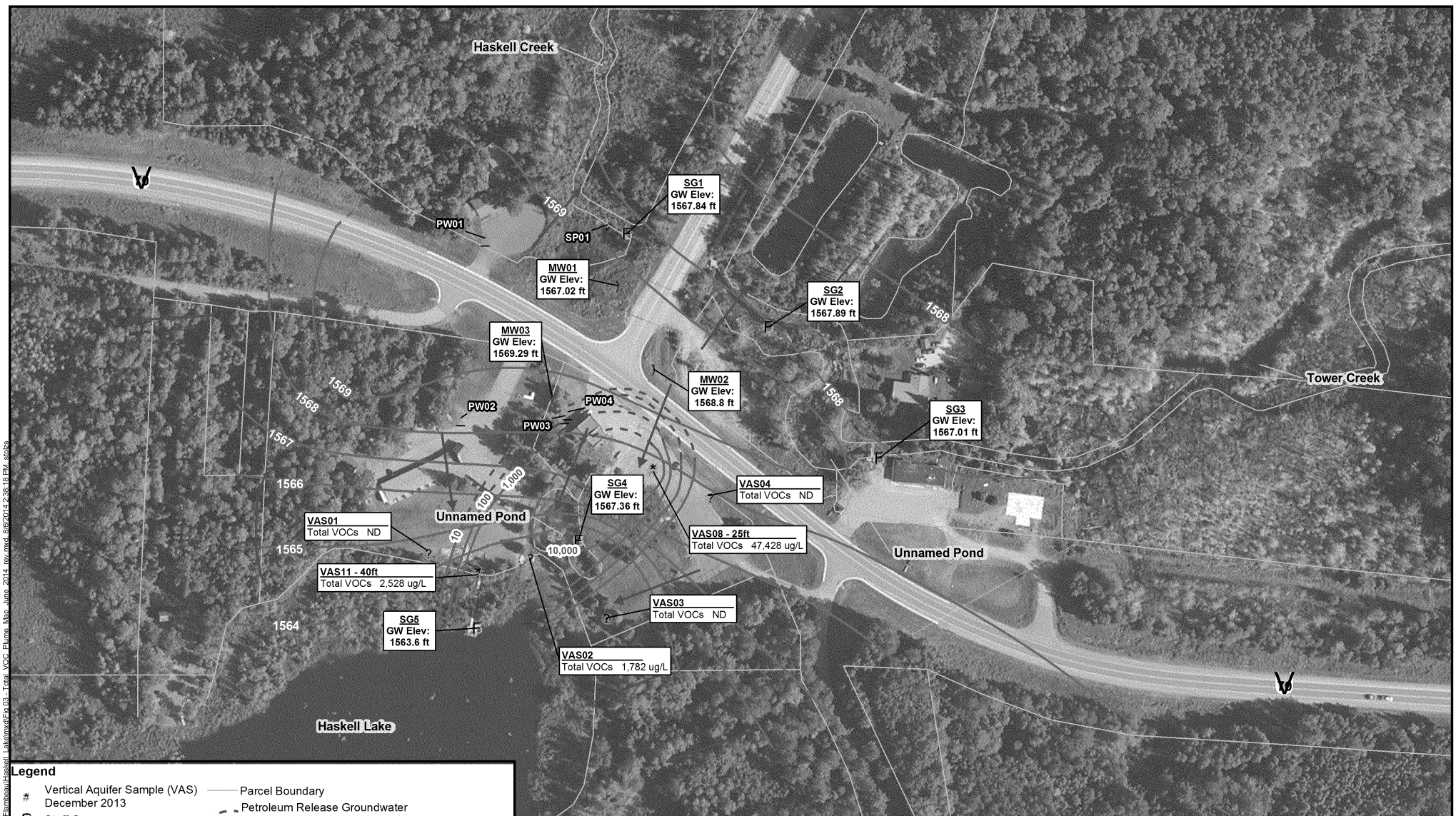


Legend

- Vertical Aquifer Sample (VAS) December 2013
- Staff Gauge
- Residential Well
- Monitoring Well
- Sand Point Screen
- VAS June 2014
- Parcel Boundary
- Petroleum Release Groundwater Plume Footprint (micrograms per liter)
- Generalized Groundwater Flow
- Potentiometric Surface Contour - May 2011
- Estimated Potentiometric Surface Contour - May 2011

- VAS08 & VAS11 were sampled for perchlorate in 2011 and were redrilled and sampled for petroleum constituents in December 2013
- Total VOCs listed are for the VAS interval with the highest detections

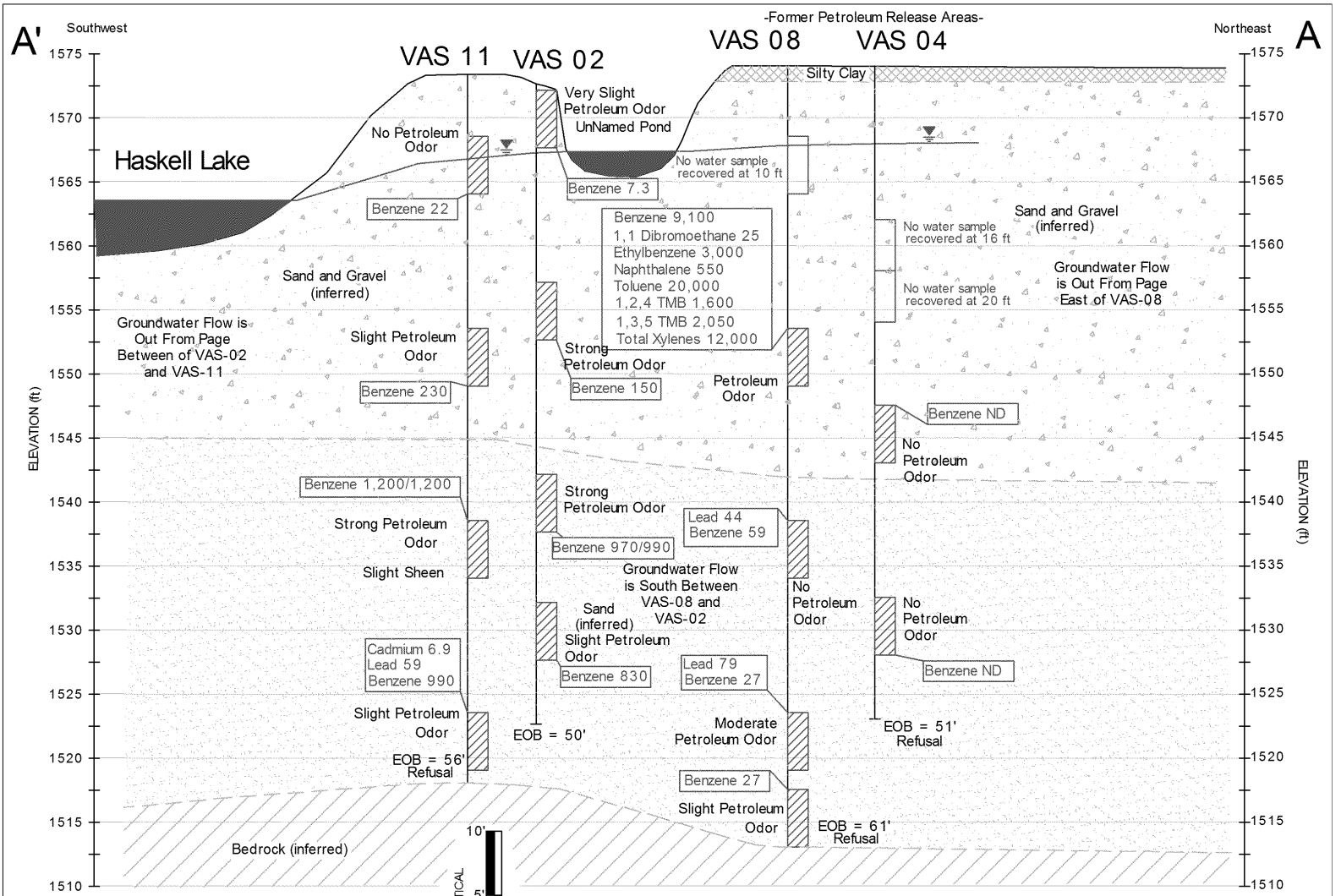
0 150 '

3

Prepared By:
WESTON SOLUTIONS, INC.
2501 Jolly Road, Suite 100
Okemos, Michigan 48864

Figure 3
Total VOC Plume Map
Haskell Lake Area
Lac du Flambeau, Vilas County, Wisconsin

Path: D:\GIS_Projects\LacDeFlambeau\Haskell_Lake\mxd\Fig 03_Total_VOC_Plume_Map_June_2014_rev.mxd 8/8/2014 2:38:18 PM, stone



LEGEND

EOB = End of Boring
ug/L = micro grams per liter
VAS = Vertical Aquifer Sample
1,2,4 TMB = 1,2,4 Trimethylbenzene
1,3,5 TMB = 1,3,5 Trimethylbenzene
Only values exceeding Wisconsin Enforcement Standard (ES) values are shown.

VAS Screen Interval
Shallow Potentiometric Surface
All analytical = ug/L
ND = Not Detected

WESTON SOLUTIONS

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GEOLOGICAL CROSS SECTION A–A'
WITH VAS ENFORCEMENT STANDARD EXCEEDANCES
HASKELL LAKE AREA
Lac du Flambeau, Vilas County, Wisconsin

SCALE:	DRAWN:	DATE:	CHECKED BY:	
AS NOTED	EPM	6/14	PB	FIGURE 4

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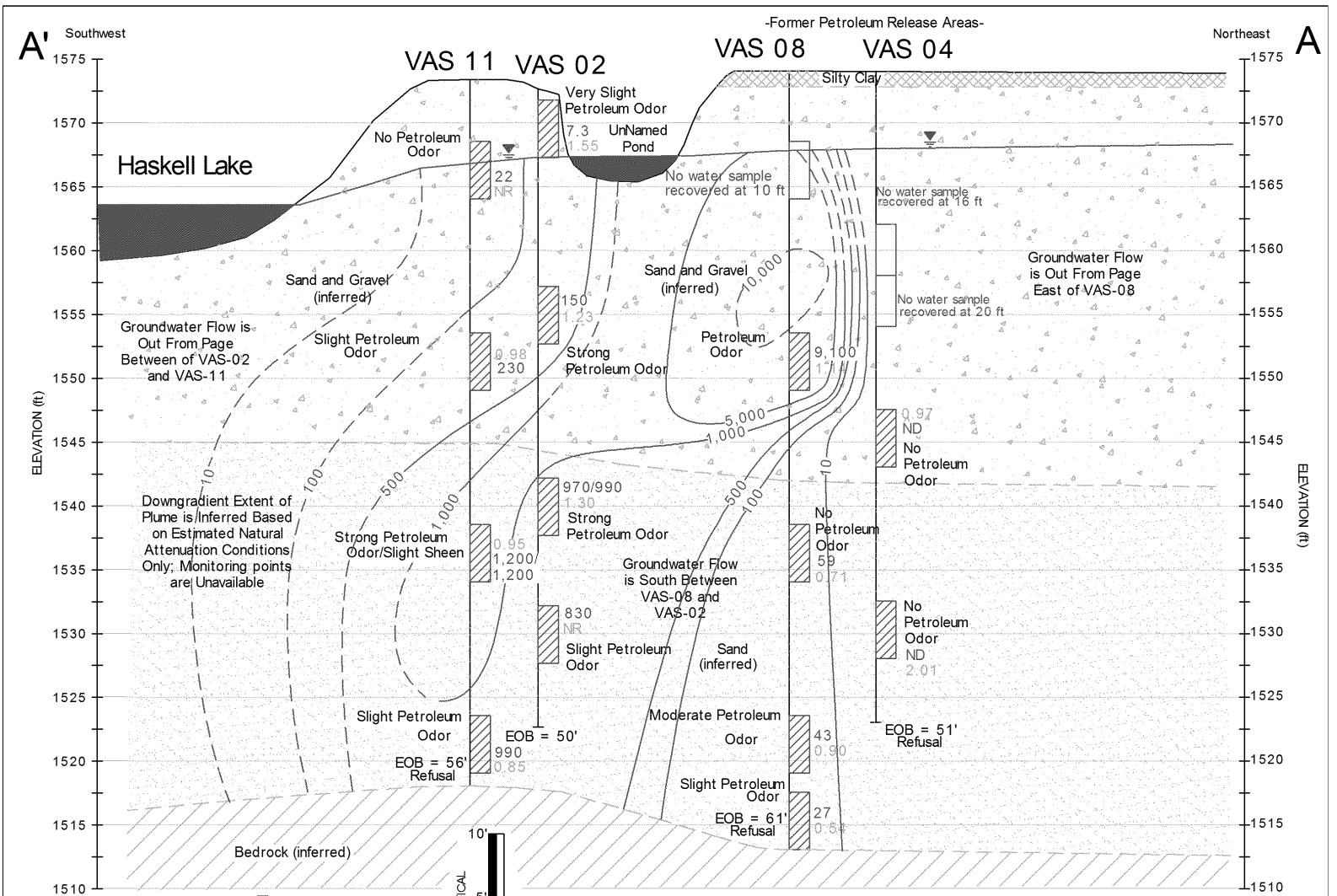

LEGEND

EOB = End of Boring
ug/L = micro grams per liter
VAS = Vertical Aquifer Sample
ppb = Parts per Billion
230 ug/L- Benzene Concentration (ppb)
1.30 mg/L- Dissolved Oxygen
All Benzene values exceed Wisconsin Enforcement Standard (ES) values

VAS Screen Interval
Shallow Potentiometric Surface
Benzene Plume Countour
ND = Not Detected
NR = No Results

WESTON SOLUTIONS

2501 Jolly Road
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48864

GEOLOGICAL CROSS SECTION A–A'
WITH BENZENE PLUME DEPICTION
HASKELL LAKE AREA
Lac du Flambeau, Vilas County, Wisconsin

SCALE:	DRAWN:	DATE:	CHECKED BY:	
AS NOTED	EPM	6/14	PB	FIGURE 5

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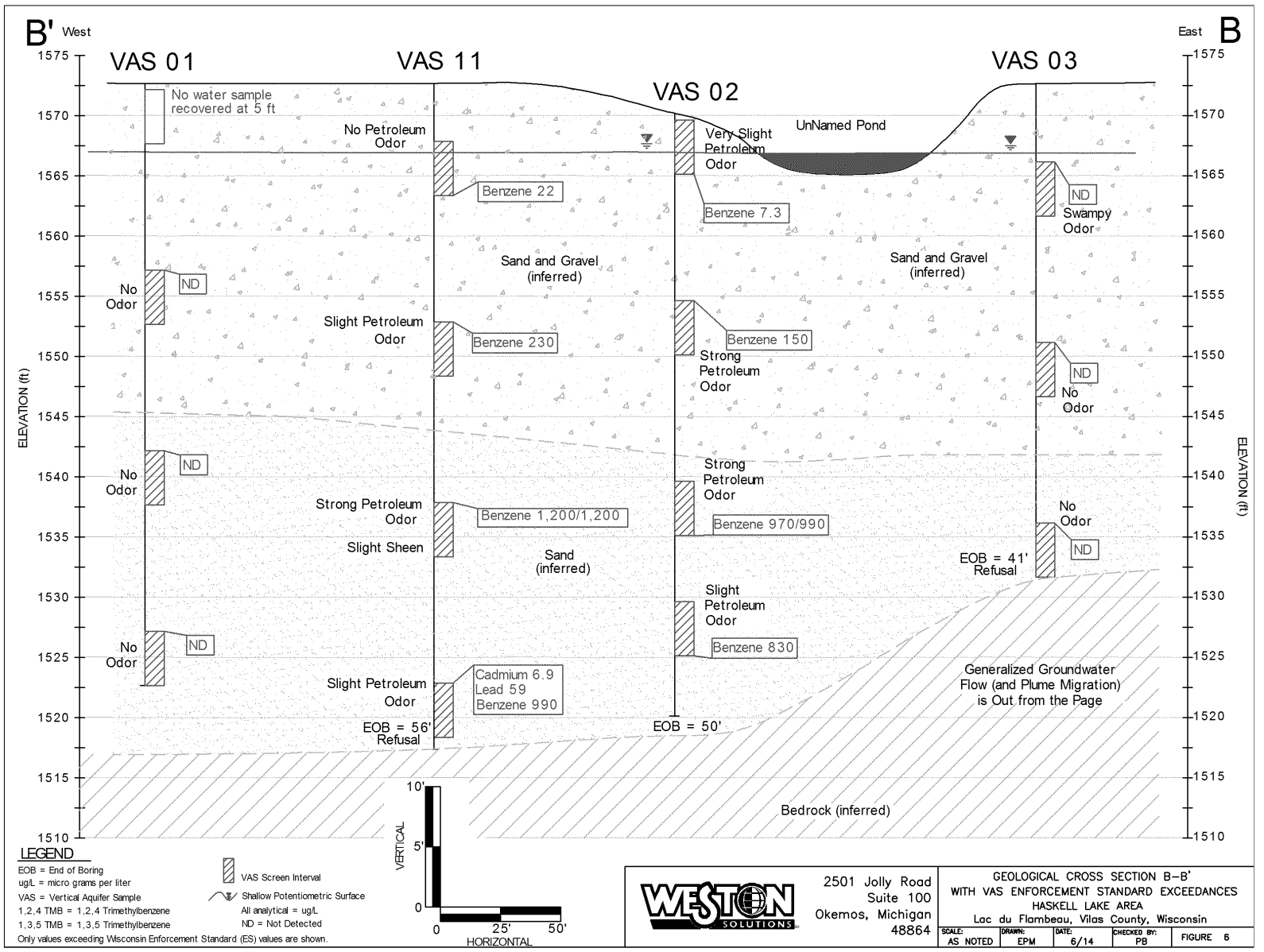

LEGEND

EOB = End of Boring
ug/L = micro grams per liter
VAS = Vertical Aquifer Sample
1,2,4 TMB = 1,2,4 Trimethylbenzene
1,3,5 TMB = 1,3,5 Trimethylbenzene
Only values exceeding Wisconsin Enforcement Standard (ES) values are shown.

VAS Screen Interval
Shallow Potentiometric Surface
All analytical = ug/L
ND = Not Detected

J:\Figure 6 (B-B').dwg

WESTON SOLUTIONS

2501 Jolly Road
Suite 100
Okemos, Michigan
48864

GEOLOGICAL CROSS SECTION B–B'
WITH VAS ENFORCEMENT STANDARD EXCEEDANCES
HASKELL LAKE AREA
Lac du Flambeau, Vilas County, Wisconsin

SCALE:	DRAWN:	DATE:	CHECKED BY:	FIGURE
AS NOTED	EPM	6/14	PB	6

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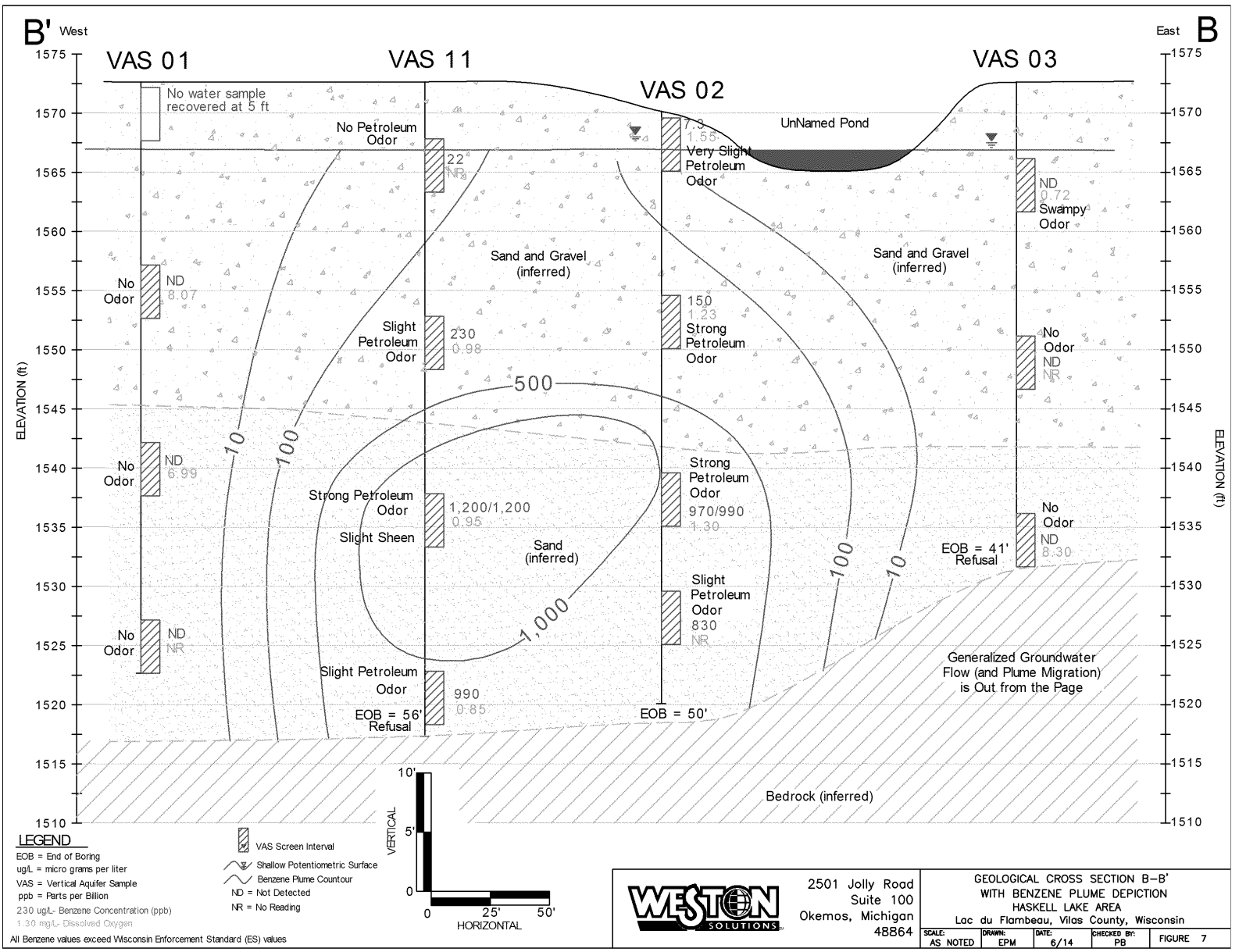

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Field Data Sheets and Log Book Copies

HASKELL LAKE 06/26/14

0845 C. Tufts onsite for WESTON.
John Edelbeck + ~~Brian~~ Pete onsite for Coleman.
No utility locates yet. Check with Lodge on septic + well; borings are clear of those.
Coleman begins to set up decon.

0910 USIC arrives. Borings by lake are clear. Will mark cable along ROW. Power is overhead, no gas, WPS on N. side of road so clear.

0930 Set up on VAS-01, western most boring.

0945 Kristen Hanson from the tribe stops by. We discuss boring locations, etc.
I am taking pictures of shoreline. She says lake is at about its historical max fullness.

1000 Drilled to 50' at VAS-01.

1050 Very turbid, hard to pump. Appears to keep ponging dry. Will let it sit again + then sample.
No readings due to turb + lack of H2O

HASKELL LAKE 06/26/14

1120 Pull up to 35' @ VAS-01. Once plug of heavy sediment removed, flowed well.

1215 Pull up to 20' @ VAS-01. Pumped dry; letting recover. Tried again, got enough to get one reading + then ponged dry again. Let recover + sampled.

1300 Pull up to 5' @ VAS-01.

~1430 Begin on VAS-02, near the boats, push to 50' bgs.

1515 Trying to get water from 50', slow to pull water, very silty. Very slight petroleum odor. Lots of water at 35', collect sample + duplicate.

1630 Pull up to 20'.

1715 Pull up to 5'.

1800 Done sampling; Coleman is pressure washing equipment.

1820 C. Tufts offsite.

EPA-R5-2017-010506_0001858

HASKELL LAKE 06/27/14

0708 C. Tufts onsite for WESTON.
Coleman already onsite.
0725 Tailgate Mtg. Discuss weather, rain heading our way, & ticks. Begin drilling on VAS-03, eastern boring.
0740 Collect Field Blank at 0740.
0745 Refusal at 41' bgs at VAS-03
Paul called to discuss 4th boring location. Will call again after results of VAS-03.
Extremely full of sediment; purged dry. Pulled up to 26'; also lots of sediment; clogged tubing.
Starting to rain lightly.
0940 Pump runs out of juice. Coleman will move truck down to power it. (While pumping at 11').
Review boring options for next one with Kristen, she is or north one between VAS-08 & grizzly hill's.
1015 Talk with Paul about 4th boring. OK at above location. Wants to drill to 60', & collect GWC from 60, 45, 30, 15' of profile.

HASKELL LAKE 06/27/14

1045 Collect GPS locations VAS-01 thr -03 & probe shoreline for muck. Shore generally seems to be rocky, without much muck, except in weedy areas. Shallow, seems to drop off quickly to ~3-4' along dock.
1130 Set up at VAS-04, North side of property. Drill to 51', refusal. Try to get water, wont come, silted in. Pull up 5' to 46', & get enough H_2O
1240 Pull up 15 to 31', has water.
1330 Pull up to 16', no water. Call P. Barty to discuss; he says to try at 20'.
1355 Moved over a foot & re-drilling to 20'.
1420 Still no water. Call P. Barty again. Will stop here, no sample. Begin to pack up. Run to get ice.
1535 Dropped coolers off at Fedex; return to site. Left v-mail for Kristen to let her know were done.
1550 Leaving down with water next

HASKELL LAKE 06/27/14

Cont. to old one by garage across street on Tribe property. Labeled drum & took picture

1600 Coleman & 2 TAPS offsite

805371062941

805371062920

805371062930

Ruth in the Rain

PROJECT:	HASKELL LAKE

PROJECT NUMBER:	15280.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
					±0.2	±3%		±10% or ±0.2	±20 mV	±10% or ±10		
6/26/19	VAS-01 @50'			No readings taken due to turbidity & lack of water — purged dry several times. Let recharge & then sampled.								COLOR brown, very turbid SHEEN YES NO ODOR YES NO SAMPLE METHOD: BAILER PUMP PEACE PUMP SUBMERSIBLE PUMP BLADDER PUMP OTHER WELL DIAMETER 2" 4" 6" 8" WELL DEPTH (ft BTOC) TOC HEIGHT ABOVE GROUND SURFACE COMMENTS
SAMPLERS:	GK											
SAMPLE ID:	VAS-01(50')		ANALYSES REQUESTED (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FILTERED) FIL (FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME	1110			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
6/26/19	VAS-01 @35'		1142	NA	11.17	1473	10.39	12.57	-307.4	NA	250 ml/min	COLOR brown, turbid SHEEN YES NO ODOR YES NO SAMPLE METHOD: BAILER PUMP PEACE PUMP SUBMERSIBLE PUMP BLADDER PUMP OTHER WELL DIAMETER 2" 4" 6" 8" WELL DEPTH (ft BTOC) TOC HEIGHT ABOVE GROUND SURFACE COMMENTS
			1147		11.24	1466	10.15	9.06	-287.5			
			1152		11.28	1468	10.84	8.17	-287.5			
			1157		10.91	1467	11.04	7.30	-287.0			
			1202		10.82	1467	10.87	7.0	-287.5			
			1207		10.86	1460	10.91	6.99	-287.5			
SAMPLERS:	GK											
SAMPLE ID:	VAS-01 (35')		ANALYSES REQUESTED (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FILTERED) FIL (FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME	1210			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT:	HASKELL LAKE	PROJECT NUMBER:	15260.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH ± 0.2	CONDUCTIVITY (uS/cm) ± 3%	TEMPERATURE (deg C)	DO **(mg/L)** ± 10% or ± 0.2	ORP (mV) ± 20 mV	TURBIDITY (NTU) ± 10% or ± 1.0	PUMP RATE (ml/min)	COMMENTS
6/26/14	VAS-01 @ 20'		1240	NA	8.40	2272	19.08	8.07	-13.2	NA		COLOR: brown, somewhat turbid
					Purged dry x2, then sampled							SHEEN: YES NO
												ODOR: YES NO
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	CH											
SAMPLE ID:	VAS01 (20')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	1250			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
6/26/14	VAS-01 @5'		Dry; purged what was in the drill rod, then dry after that; let recharge; still dry.									COLOR: brown, turbid
												SHEEN: YES NO
												ODOR: YES NO
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
			NO SAMPLE									COMMENTS:
SAMPLER(S):	CH											
SAMPLE ID:	VAS-01 (5')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:				PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT:	HASKELL LAKE

PROJECT NUMBER:	15250 001 001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH ±0.2	CONDUCTIVITY (uS/cm) ±3%	TEMPERATURE (deg C)	DO **(mg/L)** ±10% or ±0.2	ORP (mV) ±20 mV	TURBIDITY (NTU) ±10% or ±1.0	PUMP RATE (ml/min)	COMMENTS
04/26/14	VAS-02 @50'	45'		Too turbid, not enough sample volume to get readings. Purged, let recover before sampling.								COLOR: brown, extremely turbid
												SHEEN: YES (NO)
												ODOR: (YES) NO slight petro odor
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	CEL	45'										
SAMPLE ID:	VAS-02 (50')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	(VOC)	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:		1546		PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
04/26/14	VAS-02 @35'		1600	NA	9.75	989	11.44	1.19	-538.1	NA	250 ml/min	COLOR: brown
			1605		9.59	959	11.52	1.26	-[illegible]		200 ml/min	SHEEN: YES (NO)
			1610		9.54	989	11.53	1.30	-484.2			ODOR: (YES) NO
			1615		9.79	990	11.49	1.30	-495.0			SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS: some petroleum odor no sheen
SAMPLER(S):	gt											
SAMPLE ID:	VAS-02 (35')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	(VOC)	PAH	METALS (FIELD FILTERED)		(DUPLICATE) Duplicate VAS-02 (35') D				
SAMPLE COLLECTION TIME:		1615		PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT	HARRELL LAB

PROJECT NUMBER	15260.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH ± 0.2	CONDUCTIVITY (uS/cm) ± 3%	TEMPERATURE (deg C)	DO **(mg/L)** ± 10% or ± 0.2	ORP (mV) ± 20 mV	TURBIDITY (NTU) ± 10% or ± 1.0	PUMP RATE (ml/min)	COMMENTS
06/26/14	VAS-02 @ 20'		1640	NA	9.33	599	10.65	9.77	-399.5	NA	200 ml/min	COLOR: Brown, Turbid
			1645		9.37	573	10.50	9.76	-476.9			SHEEN: YES NO
			1650		9.34	547	10.71	1.17	-455.4			ODOR: YES NO
			1655		9.29	526	10.72	1.23	-457.0			SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS: Strong Petro odor
SAMPLER(S)	OK											
SAMPLE ID	VAS-02(20')		ANALYSES REQUESTED (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME	1655			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
06/26/14	VAS-02 @5'		1723	NA	9.47	496	11.92	0.85	-457.6	NA	200 ml/min	COLOR: Brown, Turbid
			1732		9.56	485	11.91	1.18	-459.6			SHEEN: YES NO
			1737		9.51	479	11.74	1.37	-457.9			ODOR: YES NO
			1737		9.50	474	11.42	1.55	-451.9			SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS very slight petro odor?
SAMPLER(S)	OK											
SAMPLE ID	VAS-02(5)		ANALYSES REQUESTED (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME	1740			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT:	HASKELL LAKE

PROJECT NUMBER:	15260.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH (± 0.2)	CONDUCTIVITY (uS/cm) (± 3%)	TEMPERATURE (deg C)	DO **(mg/L)** (± 10% or ± 0.2)	ORP (mV) (± 20 mV)	TURBIDITY (NTU) (± 10% or ± 1.0)	PUMP RATE (ml/min)	COMMENTS
6/27/14	VAS-03 @ 41' replicate		0805	NA	9.12	1791	11.57	8.30	-342.1	NA		COLOR: Brown, extremely turbid
				Purged dry x2, then sampled 1/3 (6.1") of sed in YSI								SHEEN: YES NO
												ODOR: YES NO
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	DK											
SAMPLE ID:	VAS03(41')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	0830			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
6/27/14	VAS-03 @ 26'			Sediment plugged up tubing; replaced tubing & got water, but purged dry x2								COLOR: Brown, extremely turbid
												SHEEN: YES NO
												ODOR: YES NO
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER:
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	DK											
SAMPLE ID:	VAS-03 (26')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	0930			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT:	HASKELL LAKE

PROJECT NUMBER:	15260.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH (± 0.2)	CONDUCTIVITY (uS/cm) (± 3%)	TEMPERATURE (deg C)	DO **(mg/L)** (± 10% or ± 0.2)	ORP (mV) (± 20 mV)	TURBIDITY (NTU) (± 10% or ± 1.0)	PUMP RATE (ml/min)	COMMENTS
6/22/14		VAS-03 @ 11'	1000	NA	8.09	210	10.61	1.89	-327.8	NA	200 ml/min	COLOR: brown, turbid
			1005		8.08	190	10.55	0.90	-393.8			SHEEN: YES (NO)
			1010		8.20	186	10.86	0.66	-368.0			ODOR: (YES) NO
			1015		8.23	186	10.91	0.70	-376.2			SAMPLE METHOD: PERISTALTIC PUMP
			1020		8.24	186	10.86	0.72	-370.2			KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS: swampy odor
SAMPLER(S):	OK											
SAMPLE ID:	VAS-03 (11')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	1020			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
												COLOR:
												SHEEN: YES NO
												ODOR: YES NO
												SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):												
SAMPLE ID:			ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:				PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

PROJECT:	HASKELL LAKE

PROJECT NUMBER:	15260.001.001

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH ± 0.2	CONDUCTIVITY (uS/cm) ± 3%	TEMPERATURE (deg C)	DO **(mg/L)** ± 10% or ± 0.2	ORP (mV) ± 20 mV	TURBIDITY (NTU) ± 10% or ± 1.0	PUMP RATE (ml/min)	COMMENTS
06/27/14	VAS-04 @ 46'		1210	NA	5.32	2	12.[illegible]	[illegible]	-4.9	NA	200 ml	COLOR: Brown
			1215		9.10	[illegible]	[illegible]	4.41	-[illegible]			SHEEN: YES NO
			1220		9.16	3097	12.12	2.96	-9[illegible]			ODOR: YES NO
			1225		9.17	3004	12.51	2.73	-457.5			SAMPLE METHOD: PERISTALTIC PUMP
			1230		9.15	3076	12.76	2.17	-[illegible]			KECK PUMP
			[illegible]		[illegible]	3175	12.[illegible]	2.01	-[illegible]			GRUNDFOS PUMP
												BLADDER PUMP
												OTHER
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	DK											
SAMPLE ID:	VAS-04 (FH)		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	1235			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

DATE	WELL ID	INITIAL WATER LEVEL (ft BTOC)	TIME (min)	PURGE WATER LEVEL (ft)	pH	CONDUCTIVITY (uS/cm)	TEMPERATURE (deg C)	DO **(mg/L)**	ORP (mV)	TURBIDITY (NTU)	PUMP RATE (ml/min)	COMMENTS
6/27/14	VAS-04 @ 31'		1257 NA	NA	10.71	902	12.80	0.99	-497.6	NA	200 ml/min	COLOR: Brown, Turbid
			1300		10.42	949	13.15	1.01	-[illegible]			SHEEN: YES NO
			1305		10.69	930	13.07	0.99	-501.1			ODOR: YES NO
			1310		10.[illegible]	695	13.44	0.97	-[illegible]			SAMPLE METHOD: PERISTALTIC PUMP
												KECK PUMP
												GRUNDFOS PUMP
												BLADDER PUMP
												OTHER
												WELL DIAMETER: 1" / 2" / 4"
												WELL DEPTH (FT BTOC):
												TOC HEIGHT ABOVE GROUND SURFACE:
												COMMENTS:
SAMPLER(S):	DK											
SAMPLE ID:	VAS-04 (31')		ANALYSES REQUESTED: (CIRCLE ALL THAT APPLY)	VOC	PAH	METALS (FIELD FILTERED)		DUPLICATE				
SAMPLE COLLECTION TIME:	1315			PCB	AMENABLE CYANIDE	METALS (UNFILTERED)		MS/MSD				

ESC Laboratory Analytical Reports

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Est. 1970

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

Report Summary

Monday July 07, 2014

Report Number: L707475
Samples Received: 06/28/14
Client Project: 15260.001.001

Description: Haskell Lake

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: Leslie Newton

Leslie Newton , ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-01

Date Received : June 28, 2014
Description : Haskell Lake

Site ID : WI

Sample ID : VAS-01 50FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/02/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/02/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/02/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/02/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/02/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/02/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-01

Date Received : June 28, 2014
Description : Haskell Lake

Site ID : WI

Sample ID : VAS-01 50FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/02/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/02/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/02/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/02/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/02/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/02/14	1
Dibromofluoromethane	109.		% Rec.	8260B	07/02/14	1
a,a,a-Trifluorotoluene	94.6		% Rec.	8260B	07/02/14	1
4-Bromofluorobenzene	95.7		% Rec.	8260B	07/02/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 07/07/14 11:08 Printed: 07/07/14 11:09

EPA-R5-2017-010506_0001858

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

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-02

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-01 35FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	06/29/14	1
Acrolein	BDL	0.050	mg/l	8260B	06/29/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	06/29/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	06/29/14	1
Benzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromoform	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	06/29/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	06/29/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	06/29/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	06/29/14	1
Chloroform	BDL	0.0050	mg/l	8260B	06/29/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	06/29/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-02

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-01 35FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	06/29/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	06/29/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	06/29/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	06/29/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	06/29/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	06/29/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Styrene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	06/29/14	1
Toluene	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	06/29/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	06/29/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	06/29/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	06/29/14	1
Dibromofluoromethane	104.		% Rec.	8260B	06/29/14	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	06/29/14	1
4-Bromofluorobenzene	99.2		% Rec.	8260B	06/29/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-03

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-01 20FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 12:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	06/29/14	1
Acrolein	BDL	0.050	mg/l	8260B	06/29/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	06/29/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	06/29/14	1
Benzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromoform	BDL	0.0010	mg/l	8260B	06/29/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	06/29/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	06/29/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	06/29/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	06/29/14	1
Chloroform	BDL	0.0050	mg/l	8260B	06/29/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	06/29/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	06/29/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	06/29/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1

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

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REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-03

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-01 20FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 12:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	06/29/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	06/29/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	06/29/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	06/29/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	06/29/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	06/29/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	06/29/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	06/29/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Styrene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	06/29/14	1
Toluene	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	06/29/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	06/29/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	06/29/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	06/29/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	06/29/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	06/29/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	06/29/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	06/29/14	1
Dibromofluoromethane	105.		% Rec.	8260B	06/29/14	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	06/29/14	1
4-Bromofluorobenzene	100.		% Rec.	8260B	06/29/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-04

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 45FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 15:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.50	mg/l	8260B	06/29/14	10
Acrolein	BDL	0.50	mg/l	8260B	06/29/14	10
Acrylonitrile	BDL	0.10	mg/l	8260B	06/29/14	10
Allyl chloride	BDL	0.050	mg/l	8260B	06/29/14	10
Benzene	0.83	0.010	mg/l	8260B	06/29/14	10
Bromobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Bromodichloromethane	BDL	0.010	mg/l	8260B	06/29/14	10
Bromoform	BDL	0.010	mg/l	8260B	06/29/14	10
Bromomethane	BDL	0.050	mg/l	8260B	06/29/14	10
n-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
sec-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
tert-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Carbon tetrachloride	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorodibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
Chloroethane	BDL	0.050	mg/l	8260B	06/29/14	10
2-Chloroethyl vinyl ether	BDL	0.50	mg/l	8260B	06/29/14	10
Chloroform	BDL	0.050	mg/l	8260B	06/29/14	10
Chloromethane	BDL	0.025	mg/l	8260B	06/29/14	10
2-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
4-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dibromo-3-Chloropropane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2-Dibromoethane	BDL	0.010	mg/l	8260B	06/29/14	10
Dibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,4-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Dichlorodifluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
Dichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,1-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
2,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
Di-isopropyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Ethylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Ethyl ether	BDL	0.010	mg/l	8260B	06/29/14	10

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-04

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 45FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 15:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.010	mg/l	8260B	06/29/14	10
Isopropylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
p-Isopropyltoluene	BDL	0.010	mg/l	8260B	06/29/14	10
2-Butanone (MEK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methylene Chloride	BDL	0.050	mg/l	8260B	06/29/14	10
2-Hexanone	BDL	0.10	mg/l	8260B	06/29/14	10
4-Methyl-2-pentanone (MIBK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methyl tert-butyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Naphthalene	BDL	0.050	mg/l	8260B	06/29/14	10
n-Propylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Styrene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichlorotrifluoroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrachloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrahydrofuran	BDL	0.050	mg/l	8260B	06/29/14	10
Toluene	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Trichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Trichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichloropropane	BDL	0.025	mg/l	8260B	06/29/14	10
1,2,4-Trimethylbenzene	0.021	0.010	mg/l	8260B	06/29/14	10
1,2,3-Trimethylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3,5-Trimethylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Vinyl chloride	BDL	0.010	mg/l	8260B	06/29/14	10
Xylenes, Total	0.18	0.030	mg/l	8260B	06/29/14	10
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	06/29/14	10
Dibromofluoromethane	104.		% Rec.	8260B	06/29/14	10
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	06/29/14	10
4-Bromofluorobenzene	99.6		% Rec.	8260B	06/29/14	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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EPA-R5-2017-010506_0001858

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-05

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-05 35FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.50	mg/l	8260B	06/29/14	10
Acrolein	BDL	0.50	mg/l	8260B	06/29/14	10
Acrylonitrile	BDL	0.10	mg/l	8260B	06/29/14	10
Allyl chloride	BDL	0.050	mg/l	8260B	06/29/14	10
Benzene	0.97	0.010	mg/l	8260B	06/29/14	10
Bromobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Bromodichloromethane	BDL	0.010	mg/l	8260B	06/29/14	10
Bromoform	BDL	0.010	mg/l	8260B	06/29/14	10
Bromomethane	BDL	0.050	mg/l	8260B	06/29/14	10
n-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
sec-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
tert-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Carbon tetrachloride	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorodibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
Chloroethane	BDL	0.050	mg/l	8260B	06/29/14	10
2-Chloroethyl vinyl ether	BDL	0.50	mg/l	8260B	06/29/14	10
Chloroform	BDL	0.050	mg/l	8260B	06/29/14	10
Chloromethane	BDL	0.025	mg/l	8260B	06/29/14	10
2-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
4-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dibromo-3-Chloropropane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2-Dibromoethane	BDL	0.010	mg/l	8260B	06/29/14	10
Dibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,4-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Dichlorodifluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
Dichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,1-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
2,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
Di-isopropyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Ethylbenzene	0.013	0.010	mg/l	8260B	06/29/14	10
Ethyl ether	BDL	0.010	mg/l	8260B	06/29/14	10

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-05

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-05 35FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.010	mg/l	8260B	06/29/14	10
Isopropylbenzene	0.012	0.010	mg/l	8260B	06/29/14	10
p-Isopropyltoluene	BDL	0.010	mg/l	8260B	06/29/14	10
2-Butanone (MEK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methylene Chloride	BDL	0.050	mg/l	8260B	06/29/14	10
2-Hexanone	BDL	0.10	mg/l	8260B	06/29/14	10
4-Methyl-2-pentanone (MIBK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methyl tert-butyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Naphthalene	BDL	0.050	mg/l	8260B	06/29/14	10
n-Propylbenzene	0.028	0.010	mg/l	8260B	06/29/14	10
Styrene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichlorotrifluoroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrachloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrahydrofuran	BDL	0.050	mg/l	8260B	06/29/14	10
Toluene	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Trichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Trichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichloropropane	BDL	0.025	mg/l	8260B	06/29/14	10
1,2,4-Trimethylbenzene	0.12	0.010	mg/l	8260B	06/29/14	10
1,2,3-Trimethylbenzene	0.030	0.010	mg/l	8260B	06/29/14	10
1,3,5-Trimethylbenzene	0.019	0.010	mg/l	8260B	06/29/14	10
Vinyl chloride	BDL	0.010	mg/l	8260B	06/29/14	10
Xylenes, Total	0.59	0.030	mg/l	8260B	06/29/14	10
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	06/29/14	10
Dibromofluoromethane	105.		% Rec.	8260B	06/29/14	10
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	06/29/14	10
4-Bromofluorobenzene	99.0		% Rec.	8260B	06/29/14	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-06

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 35FT D

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.50	mg/l	8260B	06/29/14	10
Acrolein	BDL	0.50	mg/l	8260B	06/29/14	10
Acrylonitrile	BDL	0.10	mg/l	8260B	06/29/14	10
Allyl chloride	BDL	0.050	mg/l	8260B	06/29/14	10
Benzene	0.99	0.010	mg/l	8260B	06/29/14	10
Bromobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Bromodichloromethane	BDL	0.010	mg/l	8260B	06/29/14	10
Bromoform	BDL	0.010	mg/l	8260B	06/29/14	10
Bromomethane	BDL	0.050	mg/l	8260B	06/29/14	10
n-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
sec-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
tert-Butylbenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Carbon tetrachloride	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Chlorodibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
Chloroethane	BDL	0.050	mg/l	8260B	06/29/14	10
2-Chloroethyl vinyl ether	BDL	0.50	mg/l	8260B	06/29/14	10
Chloroform	BDL	0.050	mg/l	8260B	06/29/14	10
Chloromethane	BDL	0.025	mg/l	8260B	06/29/14	10
2-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
4-Chlorotoluene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dibromo-3-Chloropropane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2-Dibromoethane	BDL	0.010	mg/l	8260B	06/29/14	10
Dibromomethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,4-Dichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
Dichlorodifluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
Dichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,1-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
1,3-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
cis-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
trans-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	06/29/14	10
2,2-Dichloropropane	BDL	0.010	mg/l	8260B	06/29/14	10
Di-isopropyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Ethylbenzene	0.013	0.010	mg/l	8260B	06/29/14	10
Ethyl ether	BDL	0.010	mg/l	8260B	06/29/14	10

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

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REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-06

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 35FT D

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.010	mg/l	8260B	06/29/14	10
Isopropylbenzene	0.012	0.010	mg/l	8260B	06/29/14	10
p-Isopropyltoluene	BDL	0.010	mg/l	8260B	06/29/14	10
2-Butanone (MEK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methylene Chloride	BDL	0.050	mg/l	8260B	06/29/14	10
2-Hexanone	BDL	0.10	mg/l	8260B	06/29/14	10
4-Methyl-2-pentanone (MIBK)	BDL	0.10	mg/l	8260B	06/29/14	10
Methyl tert-butyl ether	BDL	0.010	mg/l	8260B	06/29/14	10
Naphthalene	BDL	0.050	mg/l	8260B	06/29/14	10
n-Propylbenzene	0.030	0.010	mg/l	8260B	06/29/14	10
Styrene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichlorotrifluoroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrachloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Tetrahydrofuran	BDL	0.050	mg/l	8260B	06/29/14	10
Toluene	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,1-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
1,1,2-Trichloroethane	BDL	0.010	mg/l	8260B	06/29/14	10
Trichloroethene	BDL	0.010	mg/l	8260B	06/29/14	10
Trichlorofluoromethane	BDL	0.050	mg/l	8260B	06/29/14	10
1,2,3-Trichloropropane	BDL	0.025	mg/l	8260B	06/29/14	10
1,2,4-Trimethylbenzene	0.13	0.010	mg/l	8260B	06/29/14	10
1,2,3-Trimethylbenzene	0.032	0.010	mg/l	8260B	06/29/14	10
1,3,5-Trimethylbenzene	0.022	0.010	mg/l	8260B	06/29/14	10
Vinyl chloride	BDL	0.010	mg/l	8260B	06/29/14	10
Xylenes, Total	0.61	0.030	mg/l	8260B	06/29/14	10
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	06/29/14	10
Dibromofluoromethane	105.		% Rec.	8260B	06/29/14	10
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	06/29/14	10
4-Bromofluorobenzene	99.5		% Rec.	8260B	06/29/14	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 07/07/14 11:08 Printed: 07/07/14 11:09

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

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-07

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 20FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.25	mg/l	8260B	06/29/14	5
Acrolein	BDL	0.25	mg/l	8260B	06/29/14	5
Acrylonitrile	BDL	0.050	mg/l	8260B	06/29/14	5
Allyl chloride	BDL	0.025	mg/l	8260B	06/29/14	5
Benzene	0.15	0.0050	mg/l	8260B	06/29/14	5
Bromobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Bromodichloromethane	BDL	0.0050	mg/l	8260B	06/29/14	5
Bromoform	BDL	0.0050	mg/l	8260B	06/29/14	5
Bromomethane	BDL	0.025	mg/l	8260B	06/29/14	5
n-Butylbenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
sec-Butylbenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
tert-Butylbenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Carbon tetrachloride	BDL	0.0050	mg/l	8260B	06/29/14	5
Chlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Chlorodibromomethane	BDL	0.0050	mg/l	8260B	06/29/14	5
Chloroethane	BDL	0.025	mg/l	8260B	06/29/14	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	8260B	06/29/14	5
Chloroform	BDL	0.025	mg/l	8260B	06/29/14	5
Chloromethane	BDL	0.012	mg/l	8260B	06/29/14	5
2-Chlorotoluene	BDL	0.0050	mg/l	8260B	06/29/14	5
4-Chlorotoluene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/l	8260B	06/29/14	5
1,2-Dibromoethane	BDL	0.0050	mg/l	8260B	06/29/14	5
Dibromomethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Dichlorodifluoromethane	BDL	0.025	mg/l	8260B	06/29/14	5
Dichlorofluoromethane	BDL	0.025	mg/l	8260B	06/29/14	5
1,1-Dichloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,2-Dichloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1-Dichloroethene	BDL	0.0050	mg/l	8260B	06/29/14	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	06/29/14	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,2-Dichloropropane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1-Dichloropropene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,3-Dichloropropane	BDL	0.0050	mg/l	8260B	06/29/14	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	06/29/14	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	06/29/14	5
2,2-Dichloropropane	BDL	0.0050	mg/l	8260B	06/29/14	5
Di-isopropyl ether	BDL	0.0050	mg/l	8260B	06/29/14	5
Ethylbenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Ethyl ether	BDL	0.0050	mg/l	8260B	06/29/14	5

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-07

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 20FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 16:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0050	mg/l	8260B	06/29/14	5
Isopropylbenzene	0.0059	0.0050	mg/l	8260B	06/29/14	5
p-Isopropyltoluene	BDL	0.0050	mg/l	8260B	06/29/14	5
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	06/29/14	5
Methylene Chloride	BDL	0.025	mg/l	8260B	06/29/14	5
2-Hexanone	BDL	0.050	mg/l	8260B	06/29/14	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	06/29/14	5
Methyl tert-butyl ether	BDL	0.0050	mg/l	8260B	06/29/14	5
Naphthalene	BDL	0.025	mg/l	8260B	06/29/14	5
n-Propylbenzene	0.011	0.0050	mg/l	8260B	06/29/14	5
Styrene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1,2-Trichlorotrifluoroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
Tetrachloroethene	BDL	0.0050	mg/l	8260B	06/29/14	5
Tetrahydrofuran	BDL	0.025	mg/l	8260B	06/29/14	5
Toluene	BDL	0.025	mg/l	8260B	06/29/14	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	8260B	06/29/14	5
Trichloroethene	BDL	0.0050	mg/l	8260B	06/29/14	5
Trichlorofluoromethane	BDL	0.025	mg/l	8260B	06/29/14	5
1,2,3-Trichloropropane	BDL	0.012	mg/l	8260B	06/29/14	5
1,2,4-Trimethylbenzene	0.047	0.0050	mg/l	8260B	06/29/14	5
1,2,3-Trimethylbenzene	0.0093	0.0050	mg/l	8260B	06/29/14	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/l	8260B	06/29/14	5
Vinyl chloride	BDL	0.0050	mg/l	8260B	06/29/14	5
Xylenes, Total	0.12	0.015	mg/l	8260B	06/29/14	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	06/29/14	5
Dibromofluoromethane	105.		% Rec.	8260B	06/29/14	5
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	06/29/14	5
4-Bromofluorobenzene	98.5		% Rec.	8260B	06/29/14	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-08

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 5FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 17:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/06/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/06/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/06/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/06/14	1
Benzene	0.0073	0.0010	mg/l	8260B	07/06/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/06/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/06/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/06/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/06/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/06/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-08

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-02 5FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 17:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/06/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/06/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/06/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/06/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/06/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/06/14	1
1,2,4-Trimethylbenzene	0.0013	0.0010	mg/l	8260B	07/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/06/14	1
Xylenes, Total	0.0040	0.0030	mg/l	8260B	07/06/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	07/06/14	1
Dibromofluoromethane	94.9		% Rec.	8260B	07/06/14	1
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	07/06/14	1
4-Bromofluorobenzene	105.		% Rec.	8260B	07/06/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-09

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 41FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/06/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/06/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/06/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/06/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/06/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/06/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/06/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/06/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/06/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/06/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-09

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 41FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/06/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/06/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/06/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/06/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/06/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/06/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/06/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/06/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/06/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/06/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/06/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/06/14	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260B	07/06/14	1
Dibromofluoromethane	94.9		% Rec.	8260B	07/06/14	1
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	07/06/14	1
4-Bromofluorobenzene	106.		% Rec.	8260B	07/06/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-10

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 26FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/02/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/02/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/02/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/02/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/02/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/02/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-10

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 26FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/02/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/02/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/02/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/02/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/02/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/02/14	1
Dibromofluoromethane	108.		% Rec.	8260B	07/02/14	1
a,a,a-Trifluorotoluene	94.4		% Rec.	8260B	07/02/14	1
4-Bromofluorobenzene	95.8		% Rec.	8260B	07/02/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-11

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 11FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/03/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/03/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/03/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/03/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/03/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/03/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1

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

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REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-11

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-03 11FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 10:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/03/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/03/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/03/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/03/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/03/14	1
Dibromofluoromethane	109.		% Rec.	8260B	07/03/14	1
a,a,a-Trifluorotoluene	93.6		% Rec.	8260B	07/03/14	1
4-Bromofluorobenzene	99.7		% Rec.	8260B	07/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-12

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-04 46FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 12:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/03/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/03/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/03/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/03/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/03/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/03/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1

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

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

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-12

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-04 46FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 12:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/03/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/03/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/03/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/03/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	07/03/14	1
Dibromofluoromethane	110.		% Rec.	8260B	07/03/14	1
a,a,a-Trifluorotoluene	94.8		% Rec.	8260B	07/03/14	1
4-Bromofluorobenzene	95.9		% Rec.	8260B	07/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-13

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-04 31FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/03/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/03/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/03/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/03/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/03/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/03/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-13

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : VAS-04 31FT

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/03/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/03/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/03/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/03/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/03/14	1
Dibromofluoromethane	110.		% Rec.	8260B	07/03/14	1
a,a,a-Trifluorotoluene	94.3		% Rec.	8260B	07/03/14	1
4-Bromofluorobenzene	96.4		% Rec.	8260B	07/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-14

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : FIELD BLANK

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 07:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/03/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/03/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/03/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/03/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/03/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/03/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/03/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/03/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/03/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1

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

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Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-14

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : FIELD BLANK

Project # : 15260.001.001

Collected By :
Collection Date : 06/27/14 07:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/03/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/03/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/03/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/03/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/03/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/03/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/03/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/03/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/03/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/03/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/03/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/03/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/03/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/03/14	1
Dibromofluoromethane	106.		% Rec.	8260B	07/03/14	1
a,a,a-Trifluorotoluene	94.6		% Rec.	8260B	07/03/14	1
4-Bromofluorobenzene	97.8		% Rec.	8260B	07/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-15

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : TRIP BLANK

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/02/14	1
Acrolein	BDL	0.050	mg/l	8260B	07/02/14	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/02/14	1
Allyl chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
Benzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromoform	BDL	0.0010	mg/l	8260B	07/02/14	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/02/14	1
Chloroform	BDL	0.0050	mg/l	8260B	07/02/14	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/02/14	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
Dichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/02/14	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/02/14	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Ethyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1

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

12065 Lebanon Rd.
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Chris Tufts
Weston Solutions - MI
2501 Jolly Rd., Ste. 100
Okemos, MI 48864

July 07, 2014

ESC Sample # : L707475-15

Date Received : June 28, 2014
Description : Haskell Lake, WI

Site ID : WI

Sample ID : TRIP BLANK

Project # : 15260.001.001

Collected By :
Collection Date : 06/26/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	07/02/14	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/02/14	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/02/14	1
2-Hexanone	BDL	0.010	mg/l	8260B	07/02/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/02/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/02/14	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/02/14	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Styrene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Tetrahydrofuran	BDL	0.0050	mg/l	8260B	07/02/14	1
Toluene	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/02/14	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/02/14	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	07/02/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/02/14	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/02/14	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/02/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/02/14	1
Dibromofluoromethane	108.		% Rec.	8260B	07/02/14	1
a,a,a-Trifluorotoluene	96.3		% Rec.	8260B	07/02/14	1
4-Bromofluorobenzene	96.3		% Rec.	8260B	07/02/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
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Reported: 07/07/14 11:08 Printed: 07/07/14 11:09

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L707475-02	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-03	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-04	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-05	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-06	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-07	WG729332	SAMP	2-Chloroethyl vinyl ether	R2952007	J4J3
L707475-08	WG730294	SAMP	2-Chloroethyl vinyl ether	R2956308	J4
L707475-09	WG730294	SAMP	2-Chloroethyl vinyl ether	R2956308	J4

EPA-R5-2017-010506_0001858

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

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.

EPA-R5-2017-010506_0001858

Summary of Remarks For Samples Printed
07/07/14 at 11:09:39

TSR Signing Reports: 044

Closed WESSOLHMI office - Michelle Bakkila US mail address is PO Box 577, Houghton, MI 49931
906-523-2311 Related to WESSOLMOH - Verified correct billing add. w/ Katie 7-9-07

Sample: L707475-01 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-02 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-03 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-04 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-05 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-06 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-07 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-08 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-09 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-10 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-11 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-12 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-13 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-14 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

Sample: L707475-15 Account: WESSOLOMI Received: 06/28/14 09:00 Due Date: 07/07/14 00:00 RPT Date: 07/07/14 11:08

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Tax I.D. 62-0814289

Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1,1-Trichloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1,2-Trichloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1-Dichloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,1-Dichloroethene	< .001	mg/l			WG729332	06/29/14 04:49
1,1-Dichloropropene	< .001	mg/l			WG729332	06/29/14 04:49
1,2,3-Trichlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,2,3-Trichloropropane	< .0025	mg/l			WG729332	06/29/14 04:49
1,2,3-Trimethylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,2,4-Trichlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,2,4-Trimethylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG729332	06/29/14 04:49
1,2-Dibromoethane	< .001	mg/l			WG729332	06/29/14 04:49
1,2-Dichlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,2-Dichloroethane	< .001	mg/l			WG729332	06/29/14 04:49
1,2-Dichloropropane	< .001	mg/l			WG729332	06/29/14 04:49
1,3,5-Trimethylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,3-Dichlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
1,3-Dichloropropane	< .001	mg/l			WG729332	06/29/14 04:49
1,4-Dichlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
2,2-Dichloropropane	< .001	mg/l			WG729332	06/29/14 04:49
2-Butanone (MEK)	< .01	mg/l			WG729332	06/29/14 04:49
2-Chloroethyl vinyl ether	< .05	mg/l			WG729332	06/29/14 04:49
2-Chlorotoluene	< .001	mg/l			WG729332	06/29/14 04:49
2-Hexanone	< .01	mg/l			WG729332	06/29/14 04:49
4-Chlorotoluene	< .001	mg/l			WG729332	06/29/14 04:49
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG729332	06/29/14 04:49
Acetone	< .05	mg/l			WG729332	06/29/14 04:49
Acrolein	< .025	mg/l			WG729332	06/29/14 04:49
Acrylonitrile	< .01	mg/l			WG729332	06/29/14 04:49
Allyl chloride	< .005	mg/l			WG729332	06/29/14 04:49
Benzene	< .001	mg/l			WG729332	06/29/14 04:49
Bromobenzene	< .001	mg/l			WG729332	06/29/14 04:49
Bromodichloromethane	< .001	mg/l			WG729332	06/29/14 04:49
Bromoform	< .001	mg/l			WG729332	06/29/14 04:49
Bromomethane	< .005	mg/l			WG729332	06/29/14 04:49
Carbon tetrachloride	< .001	mg/l			WG729332	06/29/14 04:49
Chlorobenzene	< .001	mg/l			WG729332	06/29/14 04:49
Chlorodibromomethane	< .001	mg/l			WG729332	06/29/14 04:49
Chloroethane	< .005	mg/l			WG729332	06/29/14 04:49
Chloroform	< .005	mg/l			WG729332	06/29/14 04:49
Chloromethane	< .0025	mg/l			WG729332	06/29/14 04:49
cis-1,2-Dichloroethene	< .001	mg/l			WG729332	06/29/14 04:49
cis-1,3-Dichloropropene	< .001	mg/l			WG729332	06/29/14 04:49
Di-isopropyl ether	< .001	mg/l			WG729332	06/29/14 04:49
Dibromomethane	< .001	mg/l			WG729332	06/29/14 04:49
Dichlorodifluoromethane	< .005	mg/l			WG729332	06/29/14 04:49
Dichlorofluoromethane	< .005	mg/l			WG729332	06/29/14 04:49
Ethyl ether	< .001	mg/l			WG729332	06/29/14 04:49
Ethylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
Hexachloro-1,3-butadiene	< .001	mg/l			WG729332	06/29/14 04:49
Isopropylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
Methyl tert-butyl ether	< .001	mg/l			WG729332	06/29/14 04:49
Methylene Chloride	< .005	mg/l			WG729332	06/29/14 04:49
n-Butylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
n-Propylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
Naphthalene	< .005	mg/l			WG729332	06/29/14 04:49

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

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Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
p-Isopropyltoluene	< .001	mg/l			WG729332	06/29/14 04:49
sec-Butylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
Styrene	< .001	mg/l			WG729332	06/29/14 04:49
tert-Butylbenzene	< .001	mg/l			WG729332	06/29/14 04:49
Tetrachloroethene	< .001	mg/l			WG729332	06/29/14 04:49
Tetrahydrofuran	< .005	mg/l			WG729332	06/29/14 04:49
Toluene	< .005	mg/l			WG729332	06/29/14 04:49
trans-1,2-Dichloroethene	< .001	mg/l			WG729332	06/29/14 04:49
trans-1,3-Dichloropropene	< .001	mg/l			WG729332	06/29/14 04:49
Trichloroethene	< .001	mg/l			WG729332	06/29/14 04:49
Trichlorofluoromethane	< .005	mg/l			WG729332	06/29/14 04:49
Vinyl chloride	< .001	mg/l			WG729332	06/29/14 04:49
Xylenes, Total	< .003	mg/l			WG729332	06/29/14 04:49
4-Bromofluorobenzene		% Rec.	102.0	71-126	WG729332	06/29/14 04:49
Dibromofluoromethane		% Rec.	101.0	78.3-121	WG729332	06/29/14 04:49
Toluene-d8		% Rec.	104.0	88.5-111	WG729332	06/29/14 04:49
a,a,a-Trifluorotoluene		% Rec.	105.0	85-114	WG729332	06/29/14 04:49
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1,1-Trichloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1,2-Trichloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1-Dichloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,1-Dichloroethene	< .001	mg/l			WG729620	07/02/14 20:24
1,1-Dichloropropene	< .001	mg/l			WG729620	07/02/14 20:24
1,2,3-Trichlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,2,3-Trichloropropane	< .001	mg/l			WG729620	07/02/14 20:24
1,2,3-Trimethylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,2,4-Trichlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,2,4-Trimethylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG729620	07/02/14 20:24
1,2-Dibromoethane	< .001	mg/l			WG729620	07/02/14 20:24
1,2-Dichlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,2-Dichloroethane	< .001	mg/l			WG729620	07/02/14 20:24
1,2-Dichloropropane	< .001	mg/l			WG729620	07/02/14 20:24
1,3,5-Trimethylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,3-Dichlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24
1,3-Dichloropropane	< .001	mg/l			WG729620	07/02/14 20:24
1,4-Dichlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24
2,2-Dichloropropane	< .001	mg/l			WG729620	07/02/14 20:24
2-Butanone (MEK)	< .01	mg/l			WG729620	07/02/14 20:24
2-Chloroethyl vinyl ether	< .05	mg/l			WG729620	07/02/14 20:24
2-Chlorotoluene	< .001	mg/l			WG729620	07/02/14 20:24
2-Hexanone	< .01	mg/l			WG729620	07/02/14 20:24
4-Chlorotoluene	< .001	mg/l			WG729620	07/02/14 20:24
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG729620	07/02/14 20:24
Acetone	< .05	mg/l			WG729620	07/02/14 20:24
Acrolein	< .025	mg/l			WG729620	07/02/14 20:24
Acrylonitrile	< .01	mg/l			WG729620	07/02/14 20:24
Allyl chloride	< .005	mg/l			WG729620	07/02/14 20:24
Benzene	< .001	mg/l			WG729620	07/02/14 20:24
Bromobenzene	< .001	mg/l			WG729620	07/02/14 20:24
Bromodichloromethane	< .001	mg/l			WG729620	07/02/14 20:24
Bromoform	< .001	mg/l			WG729620	07/02/14 20:24
Bromomethane	< .005	mg/l			WG729620	07/02/14 20:24
Carbon tetrachloride	< .001	mg/l			WG729620	07/02/14 20:24
Chlorobenzene	< .001	mg/l			WG729620	07/02/14 20:24

* Performance of this Analyte is outside of established criteria.
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Tax I.D. 62-0814289

Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chlorodibromomethane	< .001	mg/l			WG729620	07/02/14 20:24
Chloroethane	< .005	mg/l			WG729620	07/02/14 20:24
Chloroform	< .005	mg/l			WG729620	07/02/14 20:24
Chloromethane	< .0025	mg/l			WG729620	07/02/14 20:24
cis-1,2-Dichloroethene	< .001	mg/l			WG729620	07/02/14 20:24
cis-1,3-Dichloropropene	< .001	mg/l			WG729620	07/02/14 20:24
Di-isopropyl ether	< .001	mg/l			WG729620	07/02/14 20:24
Dibromomethane	< .001	mg/l			WG729620	07/02/14 20:24
Dichlorodifluoromethane	< .005	mg/l			WG729620	07/02/14 20:24
Dichlorofluoromethane	< .005	mg/l			WG729620	07/02/14 20:24
Ethyl ether	< .001	mg/l			WG729620	07/02/14 20:24
Ethylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
Hexachloro-1,3-butadiene	< .001	mg/l			WG729620	07/02/14 20:24
Isopropylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
Methyl tert-butyl ether	< .001	mg/l			WG729620	07/02/14 20:24
Methylene Chloride	< .005	mg/l			WG729620	07/02/14 20:24
n-Butylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
n-Propylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
Naphthalene	< .005	mg/l			WG729620	07/02/14 20:24
p-Isopropyltoluene	< .001	mg/l			WG729620	07/02/14 20:24
sec-Butylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
Styrene	< .001	mg/l			WG729620	07/02/14 20:24
tert-Butylbenzene	< .001	mg/l			WG729620	07/02/14 20:24
Tetrachloroethene	< .001	mg/l			WG729620	07/02/14 20:24
Tetrahydrofuran	< .005	mg/l			WG729620	07/02/14 20:24
Toluene	< .005	mg/l			WG729620	07/02/14 20:24
trans-1,2-Dichloroethene	< .001	mg/l			WG729620	07/02/14 20:24
trans-1,3-Dichloropropene	< .001	mg/l			WG729620	07/02/14 20:24
Trichloroethene	< .001	mg/l			WG729620	07/02/14 20:24
Trichlorofluoromethane	< .005	mg/l			WG729620	07/02/14 20:24
Vinyl chloride	< .001	mg/l			WG729620	07/02/14 20:24
Xylenes, Total	< .003	mg/l			WG729620	07/02/14 20:24
4-Bromofluorobenzene		% Rec.	96.80	71-126	WG729620	07/02/14 20:24
Dibromofluoromethane		% Rec.	108.0	78.3-121	WG729620	07/02/14 20:24
Toluene-d8		% Rec.	103.0	88.5-111	WG729620	07/02/14 20:24
a,a,a-Trifluorotoluene		% Rec.	94.20	85-114	WG729620	07/02/14 20:24
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1,1-Trichloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1,2-Trichloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1-Dichloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,1-Dichloroethene	< .001	mg/l			WG730294	07/06/14 13:11
1,1-Dichloropropene	< .001	mg/l			WG730294	07/06/14 13:11
1,2,3-Trichlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,2,3-Trichloropropane	< .001	mg/l			WG730294	07/06/14 13:11
1,2,3-Trimethylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,2,4-Trichlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,2,4-Trimethylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG730294	07/06/14 13:11
1,2-Dibromoethane	< .001	mg/l			WG730294	07/06/14 13:11
1,2-Dichlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,2-Dichloroethane	< .001	mg/l			WG730294	07/06/14 13:11
1,2-Dichloropropane	< .001	mg/l			WG730294	07/06/14 13:11
1,3,5-Trimethylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,3-Dichlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
1,3-Dichloropropane	< .001	mg/l			WG730294	07/06/14 13:11

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Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,4-Dichlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
2,2-Dichloropropane	< .001	mg/l			WG730294	07/06/14 13:11
2-Butanone (MEK)	< .01	mg/l			WG730294	07/06/14 13:11
2-Chloroethyl vinyl ether	< .05	mg/l			WG730294	07/06/14 13:11
2-Chlorotoluene	< .001	mg/l			WG730294	07/06/14 13:11
2-Hexanone	< .01	mg/l			WG730294	07/06/14 13:11
4-Chlorotoluene	< .001	mg/l			WG730294	07/06/14 13:11
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG730294	07/06/14 13:11
Acetone	< .05	mg/l			WG730294	07/06/14 13:11
Acrolein	< .025	mg/l			WG730294	07/06/14 13:11
Acrylonitrile	< .01	mg/l			WG730294	07/06/14 13:11
Allyl chloride	< .005	mg/l			WG730294	07/06/14 13:11
Benzene	< .001	mg/l			WG730294	07/06/14 13:11
Bromobenzene	< .001	mg/l			WG730294	07/06/14 13:11
Bromodichloromethane	< .001	mg/l			WG730294	07/06/14 13:11
Bromoform	< .001	mg/l			WG730294	07/06/14 13:11
Bromomethane	< .005	mg/l			WG730294	07/06/14 13:11
Carbon tetrachloride	< .001	mg/l			WG730294	07/06/14 13:11
Chlorobenzene	< .001	mg/l			WG730294	07/06/14 13:11
Chlorodibromomethane	< .001	mg/l			WG730294	07/06/14 13:11
Chloroethane	< .005	mg/l			WG730294	07/06/14 13:11
Chloroform	< .005	mg/l			WG730294	07/06/14 13:11
Chloromethane	< .0025	mg/l			WG730294	07/06/14 13:11
cis-1,2-Dichloroethene	< .001	mg/l			WG730294	07/06/14 13:11
cis-1,3-Dichloropropene	< .001	mg/l			WG730294	07/06/14 13:11
Di-isopropyl ether	< .001	mg/l			WG730294	07/06/14 13:11
Dibromomethane	< .001	mg/l			WG730294	07/06/14 13:11
Dichlorodifluoromethane	< .005	mg/l			WG730294	07/06/14 13:11
Dichlorofluoromethane	< .005	mg/l			WG730294	07/06/14 13:11
Ethyl ether	< .001	mg/l			WG730294	07/06/14 13:11
Ethylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
Hexachloro-1,3-butadiene	< .001	mg/l			WG730294	07/06/14 13:11
Isopropylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
Methyl tert-butyl ether	< .001	mg/l			WG730294	07/06/14 13:11
Methylene Chloride	< .005	mg/l			WG730294	07/06/14 13:11
n-Butylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
n-Propylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
Naphthalene	< .005	mg/l			WG730294	07/06/14 13:11
p-Isopropyltoluene	< .001	mg/l			WG730294	07/06/14 13:11
sec-Butylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
Styrene	< .001	mg/l			WG730294	07/06/14 13:11
tert-Butylbenzene	< .001	mg/l			WG730294	07/06/14 13:11
Tetrachloroethene	< .001	mg/l			WG730294	07/06/14 13:11
Tetrahydrofuran	< .005	mg/l			WG730294	07/06/14 13:11
Toluene	< .005	mg/l			WG730294	07/06/14 13:11
trans-1,2-Dichloroethene	< .001	mg/l			WG730294	07/06/14 13:11
trans-1,3-Dichloropropene	< .001	mg/l			WG730294	07/06/14 13:11
Trichloroethene	< .001	mg/l			WG730294	07/06/14 13:11
Trichlorofluoromethane	< .005	mg/l			WG730294	07/06/14 13:11
Vinyl chloride	< .001	mg/l			WG730294	07/06/14 13:11
Xylenes, Total	< .003	mg/l			WG730294	07/06/14 13:11
4-Bromofluorobenzene		% Rec.	105.0	71-126	WG730294	07/06/14 13:11
Dibromofluoromethane		% Rec.	94.70	78.3-121	WG730294	07/06/14 13:11
Toluene-d8		% Rec.	100.0	88.5-111	WG730294	07/06/14 13:11
a,a,a-Trifluorotoluene		% Rec.	107.0	85-114	WG730294	07/06/14 13:11

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0262	105.	74.2-124	WG729332
1,1,1-Trichloroethane	mg/l	.025	0.0259	103.	73.2-123	WG729332
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0259	104.	70.7-122	WG729332
1,1,2-Trichloroethane	mg/l	.025	0.0253	101.	77.7-118	WG729332
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0262	105.	67.2-143	WG729332
1,1-Dichloroethane	mg/l	.025	0.0253	101.	70.7-126	WG729332
1,1-Dichloroethene	mg/l	.025	0.0253	101.	67.8-129	WG729332
1,1-Dichloropropene	mg/l	.025	0.0248	99.3	73.1-125	WG729332
1,2,3-Trichlorobenzene	mg/l	.025	0.0239	95.5	64.9-135	WG729332
1,2,3-Trichloropropane	mg/l	.025	0.0258	103.	71.8-121	WG729332
1,2,3-Trimethylbenzene	mg/l	.025	0.0250	100.	72.3-116	WG729332
1,2,4-Trichlorobenzene	mg/l	.025	0.0244	97.7	69.7-136	WG729332
1,2,4-Trimethylbenzene	mg/l	.025	0.0248	99.3	75-123	WG729332
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0276	110.	65.4-128	WG729332
1,2-Dibromoethane	mg/l	.025	0.0252	101.	76.6-121	WG729332
1,2-Dichlorobenzene	mg/l	.025	0.0252	101.	78.4-117	WG729332
1,2-Dichloroethane	mg/l	.025	0.0259	104.	68.8-124	WG729332
1,2-Dichloropropane	mg/l	.025	0.0252	101.	76.5-119	WG729332
1,3,5-Trimethylbenzene	mg/l	.025	0.0250	100.	75.6-124	WG729332
1,3-Dichlorobenzene	mg/l	.025	0.0241	96.5	70.8-128	WG729332
1,3-Dichloropropane	mg/l	.025	0.0237	94.9	77.4-117	WG729332
1,4-Dichlorobenzene	mg/l	.025	0.0242	96.9	78.8-115	WG729332
2,2-Dichloropropane	mg/l	.025	0.0256	102.	62.4-133	WG729332
2-Butanone (MEK)	mg/l	.125	0.130	104.	55-149	WG729332
2-Chloroethyl vinyl ether	mg/l	.125	0.0484	38.7*	43.8-150	WG729332
2-Chlorotoluene	mg/l	.025	0.0243	97.2	74.7-122	WG729332
2-Hexanone	mg/l	.125	0.129	103.	65.6-144	WG729332
4-Chlorotoluene	mg/l	.025	0.0247	98.9	77.5-120	WG729332
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.136	109.	70.5-133	WG729332
Acetone	mg/l	.125	0.124	99.2	35.6-163	WG729332
Acrolein	mg/l	.125	0.155	124.	10-190	WG729332
Acrylonitrile	mg/l	.125	0.130	104.	55.2-130	WG729332
Benzene	mg/l	.025	0.0244	97.8	74.8-121	WG729332
Bromobenzene	mg/l	.025	0.0243	97.4	77.5-116	WG729332
Bromodichloromethane	mg/l	.025	0.0260	104.	75.1-116	WG729332
Bromoform	mg/l	.025	0.0269	108.	67.5-130	WG729332
Bromomethane	mg/l	.025	0.0304	121.	49.9-162	WG729332
Carbon tetrachloride	mg/l	.025	0.0290	116.	70.2-123	WG729332
Chlorobenzene	mg/l	.025	0.0245	98.1	78.1-119	WG729332
Chlorodibromomethane	mg/l	.025	0.0258	103.	74-121	WG729332
Chloroethane	mg/l	.025	0.0320	128.	61.7-135	WG729332
Chloroform	mg/l	.025	0.0247	98.8	76-121	WG729332
Chloromethane	mg/l	.025	0.0219	87.8	61.5-129	WG729332
cis-1,2-Dichloroethene	mg/l	.025	0.0253	101.	76-119	WG729332
cis-1,3-Dichloropropene	mg/l	.025	0.0262	105.	78.2-120	WG729332
Di-isopropyl ether	mg/l	.025	0.0249	99.7	65.6-132	WG729332
Dibromomethane	mg/l	.025	0.0266	106.	79.5-118	WG729332
Dichlorodifluoromethane	mg/l	.025	0.0229	91.5	54.8-135	WG729332
Dichlorofluoromethane	mg/l	.025	0.0254	102.	62.5-132	WG729332
Ethyl ether	mg/l	.025	0.0250	99.9	62.4-134	WG729332
Ethylbenzene	mg/l	.025	0.0242	96.9	78.8-122	WG729332
Hexachloro-1,3-butadiene	mg/l	.025	0.0247	99.0	64.7-129	WG729332
Isopropylbenzene	mg/l	.025	0.0252	101.	78.6-132	WG729332
Methyl tert-butyl ether	mg/l	.025	0.0251	100.	71.2-126	WG729332
Methylene Chloride	mg/l	.025	0.0242	96.8	70.3-120	WG729332
n-Butylbenzene	mg/l	.025	0.0260	104.	76.2-126	WG729332
n-Propylbenzene	mg/l	.025	0.0255	102.	78.2-122	WG729332
Naphthalene	mg/l	.025	0.0247	98.8	68.4-128	WG729332
p-Isopropyltoluene	mg/l	.025	0.0249	99.8	74-131	WG729332
sec-Butylbenzene	mg/l	.025	0.0251	101.	74.4-127	WG729332

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Styrene	mg/l	.025	0.0248	99.2	80.4-126	WG729332
tert-Butylbenzene	mg/l	.025	0.0247	99.0	75.3-126	WG729332
Tetrachloroethene	mg/l	.025	0.0248	99.3	72.6-126	WG729332
Tetrahydrofuran	mg/l	.025	0.0243	97.1	54.4-137	WG729332
Toluene	mg/l	.025	0.0251	100.	79.7-116	WG729332
trans-1,2-Dichloroethene	mg/l	.025	0.0260	104.	72.6-121	WG729332
trans-1,3-Dichloropropene	mg/l	.025	0.0274	110.	74.3-123	WG729332
Trichloroethene	mg/l	.025	0.0250	100.	77.7-118	WG729332
Trichlorofluoromethane	mg/l	.025	0.0259	104.	63.5-135	WG729332
Vinyl chloride	mg/l	.025	0.0246	98.3	65.9-128	WG729332
Xylenes, Total	mg/l	.075	0.0739	98.5	78.7-121	WG729332
4-Bromofluorobenzene				101.0	71-126	WG729332
Dibromofluoromethane				103.0	78.3-121	WG729332
Toluene-d8				105.0	88.5-111	WG729332
a,a,a-Trifluorotoluene				103.0	85-114	WG729332
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0252	101.	74.2-124	WG729620
1,1,1-Trichloroethane	mg/l	.025	0.0284	114.	73.2-123	WG729620
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0261	105.	70.7-122	WG729620
1,1,2-Trichloroethane	mg/l	.025	0.0238	95.2	77.7-118	WG729620
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0242	96.8	67.2-143	WG729620
1,1-Dichloroethane	mg/l	.025	0.0262	105.	70.7-126	WG729620
1,1-Dichloroethene	mg/l	.025	0.0270	108.	67.8-129	WG729620
1,1-Dichloropropene	mg/l	.025	0.0291	117.	73.1-125	WG729620
1,2,3-Trichlorobenzene	mg/l	.025	0.0252	101.	64.9-135	WG729620
1,2,3-Trichloropropane	mg/l	.025	0.0262	105.	71.8-121	WG729620
1,2,3-Trimethylbenzene	mg/l	.025	0.0269	108.	72.3-116	WG729620
1,2,4-Trichlorobenzene	mg/l	.025	0.0267	107.	69.7-136	WG729620
1,2,4-Trimethylbenzene	mg/l	.025	0.0260	104.	75-123	WG729620
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0238	95.1	65.4-128	WG729620
1,2-Dibromoethane	mg/l	.025	0.0259	103.	76.6-121	WG729620
1,2-Dichlorobenzene	mg/l	.025	0.0261	104.	78.4-117	WG729620
1,2-Dichloroethane	mg/l	.025	0.0304	122.	68.8-124	WG729620
1,2-Dichloropropane	mg/l	.025	0.0277	111.	76.5-119	WG729620
1,3,5-Trimethylbenzene	mg/l	.025	0.0266	106.	75.6-124	WG729620
1,3-Dichlorobenzene	mg/l	.025	0.0264	105.	70.8-128	WG729620
1,3-Dichloropropane	mg/l	.025	0.0256	102.	77.4-117	WG729620
1,4-Dichlorobenzene	mg/l	.025	0.0258	103.	78.8-115	WG729620
2,2-Dichloropropane	mg/l	.025	0.0244	97.5	62.4-133	WG729620
2-Butanone (MEK)	mg/l	.125	0.143	115.	55-149	WG729620
2-Chloroethyl vinyl ether	mg/l	.125	0.145	116.	43.8-150	WG729620
2-Chlorotoluene	mg/l	.025	0.0261	104.	74.7-122	WG729620
2-Hexanone	mg/l	.125	0.132	106.	65.6-144	WG729620
4-Chlorotoluene	mg/l	.025	0.0274	109.	77.5-120	WG729620
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.138	111.	70.5-133	WG729620
Acetone	mg/l	.125	0.129	103.	35.6-163	WG729620
Acrolein	mg/l	.125	0.128	103.	10-190	WG729620
Acrylonitrile	mg/l	.125	0.136	109.	55.2-130	WG729620
Benzene	mg/l	.025	0.0280	112.	74.8-121	WG729620
Bromobenzene	mg/l	.025	0.0269	108.	77.5-116	WG729620
Bromodichloromethane	mg/l	.025	0.0274	110.	75.1-116	WG729620
Bromoform	mg/l	.025	0.0237	95.0	67.5-130	WG729620
Bromomethane	mg/l	.025	0.0287	115.	49.9-162	WG729620
Carbon tetrachloride	mg/l	.025	0.0282	113.	70.2-123	WG729620
Chlorobenzene	mg/l	.025	0.0262	105.	78.1-119	WG729620
Chlorodibromomethane	mg/l	.025	0.0257	103.	74-121	WG729620
Chloroethane	mg/l	.025	0.0311	124.	61.7-135	WG729620
Chloroform	mg/l	.025	0.0282	113.	76-121	WG729620

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Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chloromethane	mg/l	.025	0.0257	103.	61.5-129	WG729620
cis-1,2-Dichloroethene	mg/l	.025	0.0264	106.	76-119	WG729620
cis-1,3-Dichloropropene	mg/l	.025	0.0273	109.	78.2-120	WG729620
Di-isopropyl ether	mg/l	.025	0.0261	104.	65.6-132	WG729620
Dibromomethane	mg/l	.025	0.0269	108.	79.5-118	WG729620
Dichlorodifluoromethane	mg/l	.025	0.0249	99.5	54.8-135	WG729620
Dichlorofluoromethane	mg/l	.025	0.0267	107.	62.5-132	WG729620
Ethyl ether	mg/l	.025	0.0262	105.	62.4-134	WG729620
Ethylbenzene	mg/l	.025	0.0258	103.	78.8-122	WG729620
Hexachloro-1,3-butadiene	mg/l	.025	0.0248	99.3	64.7-129	WG729620
Isopropylbenzene	mg/l	.025	0.0264	106.	78.6-132	WG729620
Methyl tert-butyl ether	mg/l	.025	0.0249	99.5	71.2-126	WG729620
Methylene Chloride	mg/l	.025	0.0235	93.9	70.3-120	WG729620
n-Butylbenzene	mg/l	.025	0.0294	118.	76.2-126	WG729620
n-Propylbenzene	mg/l	.025	0.0274	110.	78.2-122	WG729620
Naphthalene	mg/l	.025	0.0256	102.	68.4-128	WG729620
p-Isopropyltoluene	mg/l	.025	0.0266	106.	74-131	WG729620
sec-Butylbenzene	mg/l	.025	0.0266	107.	74.4-127	WG729620
Styrene	mg/l	.025	0.0276	110.	80.4-126	WG729620
tert-Butylbenzene	mg/l	.025	0.0260	104.	75.3-126	WG729620
Tetrachloroethene	mg/l	.025	0.0242	96.7	72.6-126	WG729620
Tetrahydrofuran	mg/l	.025	0.0286	114.	54.4-137	WG729620
Toluene	mg/l	.025	0.0264	106.	79.7-116	WG729620
trans-1,2-Dichloroethene	mg/l	.025	0.0240	96.1	72.6-121	WG729620
trans-1,3-Dichloropropene	mg/l	.025	0.0258	103.	74.3-123	WG729620
Trichloroethene	mg/l	.025	0.0268	107.	77.7-118	WG729620
Trichlorofluoromethane	mg/l	.025	0.0257	103.	63.5-135	WG729620
Vinyl chloride	mg/l	.025	0.0237	94.8	65.9-128	WG729620
Xylenes, Total	mg/l	.075	0.0785	105.	78.7-121	WG729620
4-Bromofluorobenzene				98.20	71-126	WG729620
Dibromofluoromethane				107.0	78.3-121	WG729620
Toluene-d8				106.0	88.5-111	WG729620
a,a,a-Trifluorotoluene				97.60	85-114	WG729620
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0281	112.	74.2-124	WG730294
1,1,1-Trichloroethane	mg/l	.025	0.0262	105.	73.2-123	WG730294
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0273	109.	70.7-122	WG730294
1,1,2-Trichloroethane	mg/l	.025	0.0271	108.	77.7-118	WG730294
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0249	99.6	67.2-143	WG730294
1,1-Dichloroethane	mg/l	.025	0.0243	97.1	70.7-126	WG730294
1,1-Dichloroethene	mg/l	.025	0.0240	96.0	67.8-129	WG730294
1,1-Dichloropropene	mg/l	.025	0.0239	95.7	73.1-125	WG730294
1,2,3-Trichlorobenzene	mg/l	.025	0.0247	98.7	64.9-135	WG730294
1,2,3-Trichloropropane	mg/l	.025	0.0284	114.	71.8-121	WG730294
1,2,3-Trimethylbenzene	mg/l	.025	0.0251	100.	72.3-116	WG730294
1,2,4-Trichlorobenzene	mg/l	.025	0.0252	101.	69.7-136	WG730294
1,2,4-Trimethylbenzene	mg/l	.025	0.0262	105.	75-123	WG730294
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0295	118.	65.4-128	WG730294
1,2-Dibromoethane	mg/l	.025	0.0278	111.	76.6-121	WG730294
1,2-Dichlorobenzene	mg/l	.025	0.0264	106.	78.4-117	WG730294
1,2-Dichloroethane	mg/l	.025	0.0256	102.	68.8-124	WG730294
1,2-Dichloropropane	mg/l	.025	0.0248	99.1	76.5-119	WG730294
1,3,5-Trimethylbenzene	mg/l	.025	0.0261	104.	75.6-124	WG730294
1,3-Dichlorobenzene	mg/l	.025	0.0260	104.	70.8-128	WG730294
1,3-Dichloropropane	mg/l	.025	0.0251	101.	77.4-117	WG730294
1,4-Dichlorobenzene	mg/l	.025	0.0249	99.6	78.8-115	WG730294
2,2-Dichloropropane	mg/l	.025	0.0256	102.	62.4-133	WG730294
2-Butanone (MEK)	mg/l	.125	0.131	105.	55-149	WG730294

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chloroethyl vinyl ether	mg/l	.125	0.0510	40.8*	43.8-150	WG730294
2-Chlorotoluene	mg/l	.025	0.0260	104.	74.7-122	WG730294
2-Hexanone	mg/l	.125	0.135	108.	65.6-144	WG730294
4-Chlorotoluene	mg/l	.025	0.0259	103.	77.5-120	WG730294
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.134	107.	70.5-133	WG730294
Acetone	mg/l	.125	0.123	98.1	35.6-163	WG730294
Acrolein	mg/l	.125	0.157	125.	10-190	WG730294
Acrylonitrile	mg/l	.125	0.129	103.	55.2-130	WG730294
Benzene	mg/l	.025	0.0234	93.5	74.8-121	WG730294
Bromobenzene	mg/l	.025	0.0250	100.	77.5-116	WG730294
Bromodichloromethane	mg/l	.025	0.0266	106.	75.1-116	WG730294
Bromoform	mg/l	.025	0.0293	117.	67.5-130	WG730294
Bromomethane	mg/l	.025	0.0277	111.	49.9-162	WG730294
Carbon tetrachloride	mg/l	.025	0.0290	116.	70.2-123	WG730294
Chlorobenzene	mg/l	.025	0.0268	107.	78.1-119	WG730294
Chlorodibromomethane	mg/l	.025	0.0277	111.	74-121	WG730294
Chloroethane	mg/l	.025	0.0306	123.	61.7-135	WG730294
Chloroform	mg/l	.025	0.0251	101.	76-121	WG730294
Chloromethane	mg/l	.025	0.0209	83.8	61.5-129	WG730294
cis-1,2-Dichloroethene	mg/l	.025	0.0252	101.	76-119	WG730294
cis-1,3-Dichloropropene	mg/l	.025	0.0264	106.	78.2-120	WG730294
Di-isopropyl ether	mg/l	.025	0.0236	94.5	65.6-132	WG730294
Dibromomethane	mg/l	.025	0.0270	108.	79.5-118	WG730294
Dichlorodifluoromethane	mg/l	.025	0.0243	97.3	54.8-135	WG730294
Dichlorofluoromethane	mg/l	.025	0.0251	100.	62.5-132	WG730294
Ethyl ether	mg/l	.025	0.0243	97.4	62.4-134	WG730294
Ethylbenzene	mg/l	.025	0.0260	104.	78.8-122	WG730294
Hexachloro-1,3-butadiene	mg/l	.025	0.0260	104.	64.7-129	WG730294
Isopropylbenzene	mg/l	.025	0.0267	107.	78.6-132	WG730294
Methyl tert-butyl ether	mg/l	.025	0.0249	99.6	71.2-126	WG730294
Methylene Chloride	mg/l	.025	0.0236	94.2	70.3-120	WG730294
n-Butylbenzene	mg/l	.025	0.0255	102.	76.2-126	WG730294
n-Propylbenzene	mg/l	.025	0.0265	106.	78.2-122	WG730294
Naphthalene	mg/l	.025	0.0252	101.	68.4-128	WG730294
p-Isopropyltoluene	mg/l	.025	0.0263	105.	74-131	WG730294
sec-Butylbenzene	mg/l	.025	0.0264	105.	74.4-127	WG730294
Styrene	mg/l	.025	0.0263	105.	80.4-126	WG730294
tert-Butylbenzene	mg/l	.025	0.0265	106.	75.3-126	WG730294
Tetrachloroethene	mg/l	.025	0.0279	112.	72.6-126	WG730294
Tetrahydrofuran	mg/l	.025	0.0236	94.4	54.4-137	WG730294
Toluene	mg/l	.025	0.0251	101.	79.7-116	WG730294
trans-1,2-Dichloroethene	mg/l	.025	0.0253	101.	72.6-121	WG730294
trans-1,3-Dichloropropene	mg/l	.025	0.0281	112.	74.3-123	WG730294
Trichloroethene	mg/l	.025	0.0256	102.	77.7-118	WG730294
Trichlorofluoromethane	mg/l	.025	0.0259	103.	63.5-135	WG730294
Vinyl chloride	mg/l	.025	0.0234	93.5	65.9-128	WG730294
Xylenes, Total	mg/l	.075	0.0781	104.	78.7-121	WG730294
4-Bromofluorobenzene				103.0	71-126	WG730294
Dibromofluoromethane				99.40	78.3-121	WG730294
Toluene-d8				102.0	88.5-111	WG730294
a,a,a-Trifluorotoluene				106.0	85-114	WG730294

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0262	0.0262	105.	74.2-124	0.0800	20	WG729332
1,1,1-Trichloroethane	mg/l	0.0259	0.0259	104.	73.2-123	0.320	20	WG729332
1,1,2,2-Tetrachloroethane	mg/l	0.0245	0.0259	98.0	70.7-122	5.57	20	WG729332
1,1,2-Trichloroethane	mg/l	0.0247	0.0253	99.0	77.7-118	2.10	20	WG729332

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,2-Trichlorotrifluoroethane	mg/l	0.0258	0.0262	103.	67.2-143	1.53	20	WG729332
1,1-Dichloroethane	mg/l	0.0251	0.0253	100.	70.7-126	0.520	20	WG729332
1,1-Dichloroethene	mg/l	0.0253	0.0253	101.	67.8-129	0.0500	20	WG729332
1,1-Dichloropropene	mg/l	0.0244	0.0248	97.0	73.1-125	1.81	20	WG729332
1,2,3-Trichlorobenzene	mg/l	0.0237	0.0239	95.0	64.9-135	0.550	20	WG729332
1,2,3-Trichloropropane	mg/l	0.0244	0.0258	98.0	71.8-121	5.59	20	WG729332
1,2,3-Trimethylbenzene	mg/l	0.0255	0.0250	102.	72.3-116	1.86	20	WG729332
1,2,4-Trichlorobenzene	mg/l	0.0243	0.0244	97.0	69.7-136	0.420	20	WG729332
1,2,4-Trimethylbenzene	mg/l	0.0249	0.0248	100.	75-123	0.340	20	WG729332
1,2-Dibromo-3-Chloropropane	mg/l	0.0252	0.0276	101.	65.4-128	9.10	20	WG729332
1,2-Dibromoethane	mg/l	0.0251	0.0252	100.	76.6-121	0.630	20	WG729332
1,2-Dichlorobenzene	mg/l	0.0258	0.0252	103.	78.4-117	2.54	20	WG729332
1,2-Dichloroethane	mg/l	0.0255	0.0259	102.	68.8-124	1.82	20	WG729332
1,2-Dichloropropane	mg/l	0.0259	0.0252	103.	76.5-119	2.78	20	WG729332
1,3,5-Trimethylbenzene	mg/l	0.0249	0.0250	100.	75.6-124	0.580	20	WG729332
1,3-Dichlorobenzene	mg/l	0.0238	0.0241	95.0	70.8-128	1.38	20	WG729332
1,3-Dichloropropane	mg/l	0.0238	0.0237	95.0	77.4-117	0.100	20	WG729332
1,4-Dichlorobenzene	mg/l	0.0245	0.0242	98.0	78.8-115	1.22	20	WG729332
2,2-Dichloropropane	mg/l	0.0257	0.0256	103.	62.4-133	0.770	20	WG729332
2-Butanone (MEK)	mg/l	0.121	0.130	97.0	55-149	7.31	20	WG729332
2-Chloroethyl vinyl ether	mg/l	0.0355	0.0484	28*	43.8-150	30.7*	20	WG729332
2-Chlorotoluene	mg/l	0.0244	0.0243	98.0	74.7-122	0.500	20	WG729332
2-Hexanone	mg/l	0.119	0.129	95.0	65.6-144	8.60	20	WG729332
4-Chlorotoluene	mg/l	0.0247	0.0247	99.0	77.5-120	0.130	20	WG729332
4-Methyl-2-pentanone (MIBK)	mg/l	0.126	0.136	100.	70.5-133	7.76	20	WG729332
Acetone	mg/l	0.113	0.124	90.0	35.6-163	9.68	23.9	WG729332
Acrolein	mg/l	0.150	0.155	120.	10-190	3.38	28.1	WG729332
Acrylonitrile	mg/l	0.120	0.130	96.0	55.2-130	7.51	20	WG729332
Benzene	mg/l	0.0243	0.0244	97.0	74.8-121	0.430	20	WG729332
Bromobenzene	mg/l	0.0240	0.0243	96.0	77.5-116	1.48	20	WG729332
Bromodichloromethane	mg/l	0.0261	0.0260	104.	75.1-116	0.290	20	WG729332
Bromoform	mg/l	0.0257	0.0269	103.	67.5-130	4.53	20	WG729332
Bromomethane	mg/l	0.0294	0.0304	118.	49.9-162	3.13	20	WG729332
Carbon tetrachloride	mg/l	0.0285	0.0290	114.	70.2-123	1.50	20	WG729332
Chlorobenzene	mg/l	0.0249	0.0245	100.	78.1-119	1.66	20	WG729332
Chlorodibromomethane	mg/l	0.0252	0.0258	101.	74-121	2.29	20	WG729332
Chloroethane	mg/l	0.0323	0.0320	129.	61.7-135	0.930	20	WG729332
Chloroform	mg/l	0.0247	0.0247	99.0	76-121	0.150	20	WG729332
Chloromethane	mg/l	0.0212	0.0219	85.0	61.5-129	3.31	20	WG729332
cis-1,2-Dichloroethene	mg/l	0.0250	0.0253	100.	76-119	0.840	20	WG729332
cis-1,3-Dichloropropene	mg/l	0.0266	0.0262	106.	78.2-120	1.47	20	WG729332
Di-isopropyl ether	mg/l	0.0252	0.0249	101.	65.6-132	1.10	20	WG729332
Dibromomethane	mg/l	0.0263	0.0266	105.	79.5-118	1.02	20	WG729332
Dichlorodifluoromethane	mg/l	0.0218	0.0229	87.0	54.8-135	4.78	20	WG729332
Dichlorofluoromethane	mg/l	0.0255	0.0254	102.	62.5-132	0.360	20	WG729332
Ethyl ether	mg/l	0.0243	0.0250	97.0	62.4-134	2.71	20	WG729332
Ethylbenzene	mg/l	0.0248	0.0242	99.0	78.8-122	2.51	20	WG729332
Hexachloro-1,3-butadiene	mg/l	0.0251	0.0247	100.	64.7-129	1.43	20	WG729332
Isopropylbenzene	mg/l	0.0254	0.0252	102.	78.6-132	0.910	20	WG729332
Methyl tert-butyl ether	mg/l	0.0246	0.0251	98.0	71.2-126	1.81	20	WG729332
Methylene Chloride	mg/l	0.0243	0.0242	97.0	70.3-120	0.400	20	WG729332
n-Butylbenzene	mg/l	0.0263	0.0260	105.	76.2-126	1.08	20	WG729332
n-Propylbenzene	mg/l	0.0253	0.0255	101.	78.2-122	0.480	20	WG729332
Naphthalene	mg/l	0.0238	0.0247	95.0	68.4-128	3.83	20	WG729332
p-Isopropyltoluene	mg/l	0.0249	0.0249	100.	74-131	0.200	20	WG729332
sec-Butylbenzene	mg/l	0.0250	0.0251	100.	74.4-127	0.340	20	WG729332
Styrene	mg/l	0.0248	0.0248	99.0	80.4-126	0.130	20	WG729332
tert-Butylbenzene	mg/l	0.0251	0.0247	100.	75.3-126	1.62	20	WG729332
Tetrachloroethene	mg/l	0.0255	0.0248	102.	72.6-126	2.70	20	WG729332

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July 07, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Tetrahydrofuran	mg/l	0.0217	0.0243	87.0	54.4-137	11.1	20	WG729332
Toluene	mg/l	0.0253	0.0251	101.	79.7-116	0.810	20	WG729332
trans-1,2-Dichloroethene	mg/l	0.0262	0.0260	105.	72.6-121	0.970	20	WG729332
trans-1,3-Dichloropropene	mg/l	0.0284	0.0274	113.	74.3-123	3.51	20	WG729332
Trichloroethene	mg/l	0.0254	0.0250	102.	77.7-118	1.43	20	WG729332
Trichlorofluoromethane	mg/l	0.0256	0.0259	102.	63.5-135	1.44	20	WG729332
Vinyl chloride	mg/l	0.0240	0.0246	96.0	65.9-128	2.43	20	WG729332
Xylenes, Total	mg/l	0.0738	0.0739	98.0	78.7-121	0.120	20	WG729332
4-Bromofluorobenzene				101.0	71-126			WG729332
Dibromofluoromethane				101.0	78.3-121			WG729332
Toluene-d8				105.0	88.5-111			WG729332
a,a,a-Trifluorotoluene				104.0	85-114			WG729332
1,1,1,2-Tetrachloroethane	mg/l	0.0248	0.0252	99.0	74.2-124	1.52	20	WG729620
1,1,1-Trichloroethane	mg/l	0.0265	0.0284	106.	73.2-123	6.98	20	WG729620
1,1,2,2-Tetrachloroethane	mg/l	0.0263	0.0261	105.	70.7-122	0.740	20	WG729620
1,1,2-Trichloroethane	mg/l	0.0240	0.0238	96.0	77.7-118	0.760	20	WG729620
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0242	97.0	67.2-143	0.100	20	WG729620
1,1-Dichloroethane	mg/l	0.0261	0.0262	104.	70.7-126	0.620	20	WG729620
1,1-Dichloroethene	mg/l	0.0271	0.0270	108.	67.8-129	0.350	20	WG729620
1,1-Dichloropropene	mg/l	0.0271	0.0291	108.	73.1-125	7.38	20	WG729620
1,2,3-Trichlorobenzene	mg/l	0.0250	0.0252	100.	64.9-135	0.620	20	WG729620
1,2,3-Trichloropropane	mg/l	0.0275	0.0262	110.	71.8-121	4.93	20	WG729620
1,2,3-Trimethylbenzene	mg/l	0.0269	0.0269	108.	72.3-116	0.140	20	WG729620
1,2,4-Trichlorobenzene	mg/l	0.0268	0.0267	107.	69.7-136	0.600	20	WG729620
1,2,4-Trimethylbenzene	mg/l	0.0280	0.0260	112.	75-123	7.29	20	WG729620
1,2-Dibromo-3-Chloropropane	mg/l	0.0247	0.0238	99.0	65.4-128	3.59	20	WG729620
1,2-Dibromoethane	mg/l	0.0253	0.0259	101.	76.6-121	2.08	20	WG729620
1,2-Dichlorobenzene	mg/l	0.0268	0.0261	107.	78.4-117	2.40	20	WG729620
1,2-Dichloroethane	mg/l	0.0307	0.0304	123.	68.8-124	0.890	20	WG729620
1,2-Dichloropropane	mg/l	0.0272	0.0277	109.	76.5-119	1.95	20	WG729620
1,3,5-Trimethylbenzene	mg/l	0.0267	0.0266	107.	75.6-124	0.380	20	WG729620
1,3-Dichlorobenzene	mg/l	0.0298	0.0264	119.	70.8-128	12.4	20	WG729620
1,3-Dichloropropane	mg/l	0.0249	0.0256	100.	77.4-117	2.72	20	WG729620
1,4-Dichlorobenzene	mg/l	0.0262	0.0258	105.	78.8-115	1.57	20	WG729620
2,2-Dichloropropane	mg/l	0.0231	0.0244	92.0	62.4-133	5.38	20	WG729620
2-Butanone (MEK)	mg/l	0.139	0.143	112.	55-149	2.67	20	WG729620
2-Chloroethyl vinyl ether	mg/l	0.147	0.145	118.	43.8-150	1.41	20	WG729620
2-Chlorotoluene	mg/l	0.0266	0.0261	106.	74.7-122	1.66	20	WG729620
2-Hexanone	mg/l	0.131	0.132	105.	65.6-144	0.810	20	WG729620
4-Chlorotoluene	mg/l	0.0284	0.0274	113.	77.5-120	3.55	20	WG729620
4-Methyl-2-pentanone (MIBK)	mg/l	0.142	0.138	113.	70.5-133	2.31	20	WG729620
Acetone	mg/l	0.129	0.129	103.	35.6-163	0.440	23.9	WG729620
Acrolein	mg/l	0.131	0.128	105.	10-190	2.01	28.1	WG729620
Acrylonitrile	mg/l	0.137	0.136	110.	55.2-130	1.12	20	WG729620
Benzene	mg/l	0.0276	0.0280	110.	74.8-121	1.29	20	WG729620
Bromobenzene	mg/l	0.0258	0.0269	103.	77.5-116	4.10	20	WG729620
Bromodichloromethane	mg/l	0.0273	0.0274	109.	75.1-116	0.410	20	WG729620
Bromoform	mg/l	0.0230	0.0237	92.0	67.5-130	2.99	20	WG729620
Bromomethane	mg/l	0.0296	0.0287	118.	49.9-162	3.15	20	WG729620
Carbon tetrachloride	mg/l	0.0268	0.0282	107.	70.2-123	5.04	20	WG729620
Chlorobenzene	mg/l	0.0254	0.0262	102.	78.1-119	2.85	20	WG729620
Chlorodibromomethane	mg/l	0.0256	0.0257	102.	74-121	0.470	20	WG729620
Chloroethane	mg/l	0.0324	0.0311	129.	61.7-135	3.95	20	WG729620
Chloroform	mg/l	0.0266	0.0282	106.	76-121	5.64	20	WG729620
Chloromethane	mg/l	0.0258	0.0257	103.	61.5-129	0.370	20	WG729620
cis-1,2-Dichloroethene	mg/l	0.0260	0.0264	104.	76-119	1.81	20	WG729620
cis-1,3-Dichloropropene	mg/l	0.0269	0.0273	108.	78.2-120	1.34	20	WG729620

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Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Di-isopropyl ether	mg/l	0.0260	0.0261	104.	65.6-132	0.280	20	WG729620
Dibromomethane	mg/l	0.0270	0.0269	108.	79.5-118	0.310	20	WG729620
Dichlorodifluoromethane	mg/l	0.0253	0.0249	101.	54.8-135	1.69	20	WG729620
Dichlorofluoromethane	mg/l	0.0269	0.0267	108.	62.5-132	0.960	20	WG729620
Ethyl ether	mg/l	0.0269	0.0262	108.	62.4-134	2.61	20	WG729620
Ethylbenzene	mg/l	0.0250	0.0258	100.	78.8-122	3.44	20	WG729620
Hexachloro-1,3-butadiene	mg/l	0.0246	0.0248	98.0	64.7-129	1.05	20	WG729620
Isopropylbenzene	mg/l	0.0253	0.0264	101.	78.6-132	4.22	20	WG729620
Methyl tert-butyl ether	mg/l	0.0249	0.0249	100.	71.2-126	0.320	20	WG729620
Methylene Chloride	mg/l	0.0237	0.0235	95.0	70.3-120	0.910	20	WG729620
n-Butylbenzene	mg/l	0.0297	0.0294	119.	76.2-126	0.960	20	WG729620
n-Propylbenzene	mg/l	0.0264	0.0274	106.	78.2-122	3.80	20	WG729620
Naphthalene	mg/l	0.0258	0.0256	103.	68.4-128	0.950	20	WG729620
p-Isopropyltoluene	mg/l	0.0301	0.0266	120.	74-131	12.2	20	WG729620
sec-Butylbenzene	mg/l	0.0287	0.0266	115.	74.4-127	7.30	20	WG729620
Styrene	mg/l	0.0263	0.0276	105.	80.4-126	4.72	20	WG729620
tert-Butylbenzene	mg/l	0.0266	0.0260	106.	75.3-126	2.37	20	WG729620
Tetrachloroethene	mg/l	0.0233	0.0242	93.0	72.6-126	3.61	20	WG729620
Tetrahydrofuran	mg/l	0.0270	0.0286	108.	54.4-137	5.58	20	WG729620
Toluene	mg/l	0.0267	0.0264	107.	79.7-116	1.19	20	WG729620
trans-1,2-Dichloroethene	mg/l	0.0246	0.0240	98.0	72.6-121	2.57	20	WG729620
trans-1,3-Dichloropropene	mg/l	0.0261	0.0258	104.	74.3-123	1.03	20	WG729620
Trichloroethene	mg/l	0.0271	0.0268	108.	77.7-118	1.19	20	WG729620
Trichlorofluoromethane	mg/l	0.0256	0.0257	102.	63.5-135	0.530	20	WG729620
Vinyl chloride	mg/l	0.0241	0.0237	96.0	65.9-128	1.73	20	WG729620
Xylenes, Total	mg/l	0.0769	0.0785	102.	78.7-121	2.04	20	WG729620
4-Bromofluorobenzene				92.10	71-126			WG729620
Dibromofluoromethane				100.0	78.3-121			WG729620
Toluene-d8				103.0	88.5-111			WG729620
a,a,a-Trifluorotoluene				97.40	85-114			WG729620
1,1,1,2-Tetrachloroethane	mg/l	0.0290	0.0281	116.	74.2-124	3.23	20	WG730294
1,1,1-Trichloroethane	mg/l	0.0260	0.0262	104.	73.2-123	0.870	20	WG730294
1,1,2,2-Tetrachloroethane	mg/l	0.0272	0.0273	109.	70.7-122	0.300	20	WG730294
1,1,2-Trichloroethane	mg/l	0.0277	0.0271	111.	77.7-118	2.15	20	WG730294
1,1,2-Trichlorotrifluoroethane	mg/l	0.0246	0.0249	98.0	67.2-143	1.41	20	WG730294
1,1-Dichloroethane	mg/l	0.0239	0.0243	96.0	70.7-126	1.32	20	WG730294
1,1-Dichloroethene	mg/l	0.0234	0.0240	94.0	67.8-129	2.34	20	WG730294
1,1-Dichloropropene	mg/l	0.0230	0.0239	92.0	73.1-125	3.96	20	WG730294
1,2,3-Trichlorobenzene	mg/l	0.0244	0.0247	98.0	64.9-135	1.18	20	WG730294
1,2,3-Trichloropropane	mg/l	0.0282	0.0284	113.	71.8-121	0.600	20	WG730294
1,2,3-Trimethylbenzene	mg/l	0.0246	0.0251	98.0	72.3-116	2.08	20	WG730294
1,2,4-Trichlorobenzene	mg/l	0.0245	0.0252	98.0	69.7-136	2.84	20	WG730294
1,2,4-Trimethylbenzene	mg/l	0.0262	0.0262	105.	75-123	0.200	20	WG730294
1,2-Dibromo-3-Chloropropane	mg/l	0.0278	0.0295	111.	65.4-128	5.66	20	WG730294
1,2-Dibromoethane	mg/l	0.0280	0.0278	112.	76.6-121	0.570	20	WG730294
1,2-Dichlorobenzene	mg/l	0.0258	0.0264	103.	78.4-117	2.25	20	WG730294
1,2-Dichloroethane	mg/l	0.0250	0.0256	100.	68.8-124	2.10	20	WG730294
1,2-Dichloropropane	mg/l	0.0245	0.0248	98.0	76.5-119	1.01	20	WG730294
1,3,5-Trimethylbenzene	mg/l	0.0268	0.0261	107.	75.6-124	2.46	20	WG730294
1,3-Dichlorobenzene	mg/l	0.0263	0.0260	105.	70.8-128	1.35	20	WG730294
1,3-Dichloropropane	mg/l	0.0251	0.0251	100.	77.4-117	0.0600	20	WG730294
1,4-Dichlorobenzene	mg/l	0.0245	0.0249	98.0	78.8-115	1.58	20	WG730294
2,2-Dichloropropane	mg/l	0.0257	0.0256	103.	62.4-133	0.610	20	WG730294
2-Butanone (MEK)	mg/l	0.123	0.131	98.0	55-149	6.93	20	WG730294
2-Chloroethyl vinyl ether	mg/l	0.0487	0.0510	39*	43.8-150	4.64	20	WG730294
2-Chlorotoluene	mg/l	0.0256	0.0260	102.	74.7-122	1.58	20	WG730294
2-Hexanone	mg/l	0.131	0.135	105.	65.6-144	2.51	20	WG730294

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Ms. Chris Tufts
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Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Chlorotoluene	mg/l	0.0262	0.0259	105.	77.5-120	1.09	20	WG730294
4-Methyl-2-pentanone (MIBK)	mg/l	0.129	0.134	103.	70.5-133	3.31	20	WG730294
Acetone	mg/l	0.115	0.123	92.0	35.6-163	6.68	23.9	WG730294
Acrolein	mg/l	0.149	0.157	119.	10-190	4.77	28.1	WG730294
Acrylonitrile	mg/l	0.121	0.129	96.0	55.2-130	6.34	20	WG730294
Benzene	mg/l	0.0230	0.0234	92.0	74.8-121	1.56	20	WG730294
Bromobenzene	mg/l	0.0250	0.0250	100.	77.5-116	0.0800	20	WG730294
Bromodichloromethane	mg/l	0.0267	0.0266	107.	75.1-116	0.740	20	WG730294
Bromoform	mg/l	0.0301	0.0293	120.	67.5-130	2.65	20	WG730294
Bromomethane	mg/l	0.0270	0.0277	108.	49.9-162	2.51	20	WG730294
Carbon tetrachloride	mg/l	0.0271	0.0290	108.	70.2-123	6.49	20	WG730294
Chlorobenzene	mg/l	0.0270	0.0268	108.	78.1-119	0.700	20	WG730294
Chlorodibromomethane	mg/l	0.0281	0.0277	112.	74-121	1.45	20	WG730294
Chloroethane	mg/l	0.0310	0.0306	124.	61.7-135	1.16	20	WG730294
Chloroform	mg/l	0.0244	0.0251	98.0	76-121	2.84	20	WG730294
Chloromethane	mg/l	0.0204	0.0209	82.0	61.5-129	2.64	20	WG730294
cis-1,2-Dichloroethene	mg/l	0.0243	0.0252	97.0	76-119	3.67	20	WG730294
cis-1,3-Dichloropropene	mg/l	0.0262	0.0264	105.	78.2-120	0.790	20	WG730294
Di-isopropyl ether	mg/l	0.0230	0.0236	92.0	65.6-132	2.60	20	WG730294
Dibromomethane	mg/l	0.0266	0.0270	106.	79.5-118	1.20	20	WG730294
Dichlorodifluoromethane	mg/l	0.0240	0.0243	96.0	54.8-135	1.18	20	WG730294
Dichlorofluoromethane	mg/l	0.0247	0.0251	99.0	62.5-132	1.45	20	WG730294
Ethyl ether	mg/l	0.0236	0.0243	94.0	62.4-134	3.25	20	WG730294
Ethylbenzene	mg/l	0.0263	0.0260	105.	78.8-122	0.960	20	WG730294
Hexachloro-1,3-butadiene	mg/l	0.0253	0.0260	101.	64.7-129	2.48	20	WG730294
Isopropylbenzene	mg/l	0.0271	0.0267	108.	78.6-132	1.71	20	WG730294
Methyl tert-butyl ether	mg/l	0.0242	0.0249	97.0	71.2-126	2.90	20	WG730294
Methylene Chloride	mg/l	0.0233	0.0236	93.0	70.3-120	1.06	20	WG730294
n-Butylbenzene	mg/l	0.0248	0.0255	99.0	76.2-126	2.65	20	WG730294
n-Propylbenzene	mg/l	0.0265	0.0265	106.	78.2-122	0.0900	20	WG730294
Naphthalene	mg/l	0.0245	0.0252	98.0	68.4-128	2.74	20	WG730294
p-Isopropyltoluene	mg/l	0.0269	0.0263	108.	74-131	2.44	20	WG730294
sec-Butylbenzene	mg/l	0.0272	0.0264	109.	74.4-127	3.01	20	WG730294
Styrene	mg/l	0.0268	0.0263	107.	80.4-126	1.76	20	WG730294
tert-Butylbenzene	mg/l	0.0273	0.0265	109.	75.3-126	3.05	20	WG730294
Tetrachloroethene	mg/l	0.0281	0.0279	112.	72.6-126	0.700	20	WG730294
Tetrahydrofuran	mg/l	0.0213	0.0236	85.0	54.4-137	10.2	20	WG730294
Toluene	mg/l	0.0251	0.0251	100.	79.7-116	0.250	20	WG730294
trans-1,2-Dichloroethene	mg/l	0.0249	0.0253	100.	72.6-121	1.51	20	WG730294
trans-1,3-Dichloropropene	mg/l	0.0284	0.0281	114.	74.3-123	1.19	20	WG730294
Trichloroethene	mg/l	0.0263	0.0256	105.	77.7-118	2.68	20	WG730294
Trichlorofluoromethane	mg/l	0.0254	0.0259	102.	63.5-135	1.79	20	WG730294
Vinyl chloride	mg/l	0.0229	0.0234	92.0	65.9-128	2.04	20	WG730294
Xylenes, Total	mg/l	0.0792	0.0781	106.	78.7-121	1.44	20	WG730294
4-Bromofluorobenzene				104.0	71-126			WG730294
Dibromofluoromethane				97.60	78.3-121			WG730294
Toluene-d8				103.0	88.5-111			WG730294
a,a,a-Trifluorotoluene				108.0	85-114			WG730294

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0234	0.0	.025	94.0	64-128	L707088-01	WG729332
1,1,1-Trichloroethane	mg/l	0.0226	0.0	.025	90.0	58.7-134	L707088-01	WG729332
1,1,2,2-Tetrachloroethane	mg/l	0.0236	0.0	.025	95.0	56-132	L707088-01	WG729332
1,1,2-Trichloroethane	mg/l	0.0237	0.0	.025	95.0	66.3-125	L707088-01	WG729332
1,1,2-Trichlorotrifluoroethane	mg/l	0.0229	0.0	.025	91.0	54.8-154	L707088-01	WG729332
1,1-Dichloroethane	mg/l	0.0219	0.0	.025	88.0	58.5-132	L707088-01	WG729332
1,1-Dichloroethene	mg/l	0.0224	0.0	.025	90.0	51.1-140	L707088-01	WG729332

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloropropene	mg/l	0.0217	0.0	.025	87.0	57.3-136	L707088-01	WG729332
1,2,3-Trichlorobenzene	mg/l	0.0218	0.0	.025	87.0	59.1-138	L707088-01	WG729332
1,2,3-Trichloropropane	mg/l	0.0232	0.0	.025	93.0	61.4-128	L707088-01	WG729332
1,2,3-Trimethylbenzene	mg/l	0.0220	0.0	.025	88.0	61.3-122	L707088-01	WG729332
1,2,4-Trichlorobenzene	mg/l	0.0218	0.0	.025	87.0	63.6-143	L707088-01	WG729332
1,2,4-Trimethylbenzene	mg/l	0.0225	0.0	.025	90.0	57.4-137	L707088-01	WG729332
1,2-Dibromo-3-Chloropropane	mg/l	0.0253	0.0	.025	100.	57.3-136	L707088-01	WG729332
1,2-Dibromoethane	mg/l	0.0235	0.0	.025	94.0	67.1-125	L707088-01	WG729332
1,2-Dichlorobenzene	mg/l	0.0224	0.0	.025	90.0	68.2-123	L707088-01	WG729332
1,2-Dichloroethane	mg/l	0.0222	0.0	.025	89.0	60-126	L707088-01	WG729332
1,2-Dichloropropane	mg/l	0.0217	0.0	.025	87.0	64.2-123	L707088-01	WG729332
1,3,5-Trimethylbenzene	mg/l	0.0222	0.0	.025	89.0	63.6-132	L707088-01	WG729332
1,3-Dichlorobenzene	mg/l	0.0216	0.0	.025	86.0	63.1-131	L707088-01	WG729332
1,3-Dichloropropane	mg/l	0.0210	0.0	.025	84.0	67.9-121	L707088-01	WG729332
1,4-Dichlorobenzene	mg/l	0.0214	0.0	.025	85.0	68.6-123	L707088-01	WG729332
2,2-Dichloropropane	mg/l	0.0223	0.0	.025	89.0	50.5-144	L707088-01	WG729332
2-Butanone (MEK)	mg/l	0.121	0.0	.125	96.0	22.4-138	L707088-01	WG729332
2-Chloroethyl vinyl ether	mg/l	0.0273	0.0	.125	22.0	10-155	L707088-01	WG729332
2-Chlorotoluene	mg/l	0.0217	0.0	.025	87.0	63.6-128	L707088-01	WG729332
2-Hexanone	mg/l	0.117	0.0	.125	94.0	43.3-137	L707088-01	WG729332
4-Chlorotoluene	mg/l	0.0220	0.0	.025	88.0	65.7-127	L707088-01	WG729332
4-Methyl-2-pentanone (MIBK)	mg/l	0.122	0.0	.125	97.0	60.8-140	L707088-01	WG729332
Acetone	mg/l	0.141	0.0330	.125	86.0	10-130	L707088-01	WG729332
Acrolein	mg/l	0.144	0.0	.125	120.	10-200	L707088-01	WG729332
Acrylonitrile	mg/l	0.119	0.0	.125	95.0	49.4-133	L707088-01	WG729332
Benzene	mg/l	0.0214	0.0	.025	86.0	54.3-133	L707088-01	WG729332
Bromobenzene	mg/l	0.0214	0.0	.025	86.0	63.9-124	L707088-01	WG729332
Bromodichloromethane	mg/l	0.0227	0.0	.025	91.0	63.9-121	L707088-01	WG729332
Bromoform	mg/l	0.0239	0.0	.025	96.0	59.5-134	L707088-01	WG729332
Bromomethane	mg/l	0.0246	0.0	.025	99.0	41.7-155	L707088-01	WG729332
Carbon tetrachloride	mg/l	0.0248	0.0	.025	99.0	55.7-134	L707088-01	WG729332
Chlorobenzene	mg/l	0.0218	0.0	.025	87.0	67-125	L707088-01	WG729332
Chlorodibromomethane	mg/l	0.0227	0.0	.025	91.0	64.3-125	L707088-01	WG729332
Chloroethane	mg/l	0.0264	0.0	.025	110.	51.5-136	L707088-01	WG729332
Chloroform	mg/l	0.0221	0.0	.025	88.0	63-129	L707088-01	WG729332
Chloromethane	mg/l	0.0194	0.0	.025	78.0	42.4-135	L707088-01	WG729332
cis-1,2-Dichloroethene	mg/l	0.0224	0.0	.025	90.0	59.2-129	L707088-01	WG729332
cis-1,3-Dichloropropene	mg/l	0.0235	0.0	.025	94.0	66.4-125	L707088-01	WG729332
Di-isopropyl ether	mg/l	0.0221	0.0	.025	88.0	56.9-136	L707088-01	WG729332
Dibromomethane	mg/l	0.0236	0.0	.025	94.0	68.2-124	L707088-01	WG729332
Dichlorodifluoromethane	mg/l	0.0211	0.0	.025	84.0	40.6-144	L707088-01	WG729332
Dichlorofluoromethane	mg/l	0.0220	0.0	.025	88.0	52.7-137	L707088-01	WG729332
Ethyl ether	mg/l	0.0221	0.0	.025	89.0	53.2-136	L707088-01	WG729332
Ethylbenzene	mg/l	0.0216	0.0	.025	86.0	61.4-133	L707088-01	WG729332
Hexachloro-1,3-butadiene	mg/l	0.0225	0.0	.025	90.0	55.1-136	L707088-01	WG729332
Isopropylbenzene	mg/l	0.0224	0.0	.025	90.0	66.8-141	L707088-01	WG729332
Methyl tert-butyl ether	mg/l	0.0223	0.0	.025	89.0	57.7-134	L707088-01	WG729332
Methylene Chloride	mg/l	0.0210	0.0	.025	84.0	58.1-122	L707088-01	WG729332
n-Butylbenzene	mg/l	0.0232	0.0	.025	93.0	62.7-140	L707088-01	WG729332
n-Propylbenzene	mg/l	0.0225	0.0	.025	90.0	65.9-131	L707088-01	WG729332
Naphthalene	mg/l	0.0224	0.0	.025	90.0	58-135	L707088-01	WG729332
p-Isopropyltoluene	mg/l	0.0223	0.0	.025	89.0	63.2-139	L707088-01	WG729332
sec-Butylbenzene	mg/l	0.0224	0.0	.025	90.0	62.2-136	L707088-01	WG729332
Styrene	mg/l	0.0219	0.0	.025	88.0	66.8-133	L707088-01	WG729332
tert-Butylbenzene	mg/l	0.0219	0.0	.025	88.0	63.3-134	L707088-01	WG729332
Tetrachloroethene	mg/l	0.0223	0.0	.025	89.0	53-139	L707088-01	WG729332
Tetrahydrofuran	mg/l	0.0230	0.0	.025	92.0	40.9-145	L707088-01	WG729332
Toluene	mg/l	0.0223	0.0	.025	89.0	61.4-130	L707088-01	WG729332
trans-1,2-Dichloroethene	mg/l	0.0225	0.0	.025	90.0	56.5-129	L707088-01	WG729332

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Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
trans-1,3-Dichloropropene	mg/l	0.0254	0.0	.025	100.	64.1-128	L707088-01	WG729332
Trichloroethene	mg/l	0.0223	0.0	.025	89.0	44.1-149	L707088-01	WG729332
Trichlorofluoromethane	mg/l	0.0230	0.0	.025	92.0	49.6-145	L707088-01	WG729332
Vinyl chloride	mg/l	0.0215	0.0	.025	86.0	47.8-137	L707088-01	WG729332
Xylenes, Total	mg/l	0.0655	0.0	.075	87.0	63.3-131	L707088-01	WG729332
4-Bromofluorobenzene					102.0	71-126		WG729332
Dibromofluoromethane					103.0	78.3-121		WG729332
Toluene-d8					106.0	88.5-111		WG729332
a,a,a-Trifluorotoluene					105.0	85-114		WG729332
1,1,1,2-Tetrachloroethane	mg/l	0.0256	0.0	.025	100.	64-128	L707475-10	WG729620
1,1,1-Trichloroethane	mg/l	0.0258	0.0	.025	100.	58.7-134	L707475-10	WG729620
1,1,2,2-Tetrachloroethane	mg/l	0.0262	0.0	.025	100.	56-132	L707475-10	WG729620
1,1,2-Trichloroethane	mg/l	0.0233	0.0	.025	93.0	66.3-125	L707475-10	WG729620
1,1,2-Trichlorotrifluoroethane	mg/l	0.0244	0.0	.025	98.0	54.8-154	L707475-10	WG729620
1,1-Dichloroethane	mg/l	0.0249	0.0	.025	99.0	58.5-132	L707475-10	WG729620
1,1-Dichloroethene	mg/l	0.0269	0.0	.025	110.	51.1-140	L707475-10	WG729620
1,1-Dichloropropene	mg/l	0.0266	0.0	.025	110.	57.3-136	L707475-10	WG729620
1,2,3-Trichlorobenzene	mg/l	0.0242	0.0	.025	97.0	59.1-138	L707475-10	WG729620
1,2,3-Trichloropropane	mg/l	0.0258	0.0	.025	100.	61.4-128	L707475-10	WG729620
1,2,3-Trimethylbenzene	mg/l	0.0265	0.0	.025	110.	61.3-122	L707475-10	WG729620
1,2,4-Trichlorobenzene	mg/l	0.0262	0.0	.025	100.	63.6-143	L707475-10	WG729620
1,2,4-Trimethylbenzene	mg/l	0.0266	0.0	.025	110.	57.4-137	L707475-10	WG729620
1,2-Dibromo-3-Chloropropane	mg/l	0.0229	0.0	.025	91.0	57.3-136	L707475-10	WG729620
1,2-Dibromoethane	mg/l	0.0250	0.0	.025	100.	67.1-125	L707475-10	WG729620
1,2-Dichlorobenzene	mg/l	0.0261	0.0	.025	100.	68.2-123	L707475-10	WG729620
1,2-Dichloroethane	mg/l	0.0301	0.0	.025	120.	60-126	L707475-10	WG729620
1,2-Dichloropropane	mg/l	0.0265	0.0	.025	110.	64.2-123	L707475-10	WG729620
1,3,5-Trimethylbenzene	mg/l	0.0264	0.0	.025	100.	63.6-132	L707475-10	WG729620
1,3-Dichlorobenzene	mg/l	0.0266	0.0	.025	110.	63.1-131	L707475-10	WG729620
1,3-Dichloropropane	mg/l	0.0249	0.0	.025	100.	67.9-121	L707475-10	WG729620
1,4-Dichlorobenzene	mg/l	0.0260	0.0	.025	100.	68.6-123	L707475-10	WG729620
2,2-Dichloropropane	mg/l	0.0226	0.0	.025	91.0	50.5-144	L707475-10	WG729620
2-Butanone (MEK)	mg/l	0.135	0.0	.125	110.	22.4-138	L707475-10	WG729620
2-Chloroethyl vinyl ether	mg/l	0.133	0.0	.125	110.	10-155	L707475-10	WG729620
2-Chlorotoluene	mg/l	0.0257	0.0	.025	100.	63.6-128	L707475-10	WG729620
2-Hexanone	mg/l	0.125	0.0	.125	100.	43.3-137	L707475-10	WG729620
4-Chlorotoluene	mg/l	0.0272	0.0	.025	110.	65.7-127	L707475-10	WG729620
4-Methyl-2-pentanone (MIBK)	mg/l	0.138	0.0	.125	110.	60.8-140	L707475-10	WG729620
Acetone	mg/l	0.125	0.00582	.125	95.0	10-130	L707475-10	WG729620
Acrolein	mg/l	0.126	0.0	.125	100.	10-200	L707475-10	WG729620
Acrylonitrile	mg/l	0.129	0.0	.125	100.	49.4-133	L707475-10	WG729620
Benzene	mg/l	0.0272	0.0	.025	110.	54.3-133	L707475-10	WG729620
Bromobenzene	mg/l	0.0265	0.0	.025	110.	63.9-124	L707475-10	WG729620
Bromodichloromethane	mg/l	0.0264	0.0	.025	110.	63.9-121	L707475-10	WG729620
Bromoform	mg/l	0.0229	0.0	.025	91.0	59.5-134	L707475-10	WG729620
Bromomethane	mg/l	0.0301	0.0	.025	120.	41.7-155	L707475-10	WG729620
Carbon tetrachloride	mg/l	0.0258	0.0	.025	100.	55.7-134	L707475-10	WG729620
Chlorobenzene	mg/l	0.0255	0.0	.025	100.	67-125	L707475-10	WG729620
Chlorodibromomethane	mg/l	0.0254	0.0	.025	100.	64.3-125	L707475-10	WG729620
Chloroethane	mg/l	0.0321	0.0	.025	130.	51.5-136	L707475-10	WG729620
Chloroform	mg/l	0.0261	0.0	.025	100.	63-129	L707475-10	WG729620
Chloromethane	mg/l	0.0262	0.0	.025	100.	42.4-135	L707475-10	WG729620
cis-1,2-Dichloroethene	mg/l	0.0250	0.0	.025	100.	59.2-129	L707475-10	WG729620
cis-1,3-Dichloropropene	mg/l	0.0263	0.0	.025	100.	66.4-125	L707475-10	WG729620
Di-isopropyl ether	mg/l	0.0250	0.0	.025	100.	56.9-136	L707475-10	WG729620
Dibromomethane	mg/l	0.0253	0.0	.025	100.	68.2-124	L707475-10	WG729620
Dichlorodifluoromethane	mg/l	0.0251	0.0	.025	100.	40.6-144	L707475-10	WG729620

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Weston Solutions - MI
Ms. Chris Tufts
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Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dichlorofluoromethane	mg/l	0.0271	0.0	.025	110.	52.7-137	L707475-10	WG729620
Ethyl ether	mg/l	0.0262	0.0	.025	100.	53.2-136	L707475-10	WG729620
Ethylbenzene	mg/l	0.0250	0.0	.025	100.	61.4-133	L707475-10	WG729620
Hexachloro-1,3-butadiene	mg/l	0.0243	0.0	.025	97.0	55.1-136	L707475-10	WG729620
Isopropylbenzene	mg/l	0.0260	0.0	.025	100.	66.8-141	L707475-10	WG729620
Methyl tert-butyl ether	mg/l	0.0242	0.0	.025	97.0	57.7-134	L707475-10	WG729620
Methylene Chloride	mg/l	0.0233	0.0	.025	93.0	58.1-122	L707475-10	WG729620
n-Butylbenzene	mg/l	0.0293	0.0	.025	120.	62.7-140	L707475-10	WG729620
n-Propylbenzene	mg/l	0.0273	0.0	.025	110.	65.9-131	L707475-10	WG729620
Naphthalene	mg/l	0.0246	0.0	.025	98.0	58-135	L707475-10	WG729620
p-Isopropyltoluene	mg/l	0.0272	0.0	.025	110.	63.2-139	L707475-10	WG729620
sec-Butylbenzene	mg/l	0.0264	0.0	.025	110.	62.2-136	L707475-10	WG729620
Styrene	mg/l	0.0267	0.0	.025	110.	66.8-133	L707475-10	WG729620
tert-Butylbenzene	mg/l	0.0258	0.0	.025	100.	63.3-134	L707475-10	WG729620
Tetrachloroethene	mg/l	0.0240	0.0	.025	96.0	53-139	L707475-10	WG729620
Tetrahydrofuran	mg/l	0.0253	0.0	.025	100.	40.9-145	L707475-10	WG729620
Toluene	mg/l	0.0269	0.0	.025	110.	61.4-130	L707475-10	WG729620
trans-1,2-Dichloroethene	mg/l	0.0235	0.0	.025	94.0	56.5-129	L707475-10	WG729620
trans-1,3-Dichloropropene	mg/l	0.0263	0.0	.025	100.	64.1-128	L707475-10	WG729620
Trichloroethene	mg/l	0.0261	0.0	.025	100.	44.1-149	L707475-10	WG729620
Trichlorofluoromethane	mg/l	0.0259	0.0	.025	100.	49.6-145	L707475-10	WG729620
Vinyl chloride	mg/l	0.0242	0.0	.025	97.0	47.8-137	L707475-10	WG729620
Xylenes, Total	mg/l	0.0772	0.0	.075	100.	63.3-131	L707475-10	WG729620
4-Bromofluorobenzene					95.60	71-126		WG729620
Dibromofluoromethane					100.0	78.3-121		WG729620
Toluene-d8					103.0	88.5-111		WG729620
a,a,a-Trifluorotoluene					96.00	85-114		WG729620
1,1,1,2-Tetrachloroethane	mg/l	0.0255	0.0	.025	100.	64-128	L708024-12	WG730294
1,1,1-Trichloroethane	mg/l	0.0220	0.0	.025	88.0	58.7-134	L708024-12	WG730294
1,1,2,2-Tetrachloroethane	mg/l	0.0247	0.0	.025	99.0	56-132	L708024-12	WG730294
1,1,2-Trichloroethane	mg/l	0.0280	0.0	.025	110.	66.3-125	L708024-12	WG730294
1,1,2-Trichlorotrifluoroethane	mg/l	0.0214	0.0	.025	86.0	54.8-154	L708024-12	WG730294
1,1-Dichloroethane	mg/l	0.0203	0.0	.025	81.0	58.5-132	L708024-12	WG730294
1,1-Dichloroethene	mg/l	0.0190	0.0	.025	76.0	51.1-140	L708024-12	WG730294
1,1-Dichloropropene	mg/l	0.0193	0.0	.025	77.0	57.3-136	L708024-12	WG730294
1,2,3-Trichlorobenzene	mg/l	0.0231	0.0	.025	92.0	59.1-138	L708024-12	WG730294
1,2,3-Trichloropropane	mg/l	0.0252	0.0	.025	100.	61.4-128	L708024-12	WG730294
1,2,3-Trimethylbenzene	mg/l	0.0571	0.0383	.025	75.0	61.3-122	L708024-12	WG730294
1,2,4-Trichlorobenzene	mg/l	0.0235	0.0	.025	94.0	63.6-143	L708024-12	WG730294
1,2,4-Trimethylbenzene	mg/l	0.105	0.0876	.025	70.0	57.4-137	L708024-12	WG730294
1,2-Dibromo-3-Chloropropane	mg/l	0.0260	0.0	.025	100.	57.3-136	L708024-12	WG730294
1,2-Dibromoethane	mg/l	0.0248	0.0	.025	99.0	67.1-125	L708024-12	WG730294
1,2-Dichlorobenzene	mg/l	0.0236	0.0	.025	94.0	68.2-123	L708024-12	WG730294
1,2-Dichloroethane	mg/l	0.0215	0.0	.025	86.0	60-126	L708024-12	WG730294
1,2-Dichloropropane	mg/l	0.0215	0.0	.025	86.0	64.2-123	L708024-12	WG730294
1,3,5-Trimethylbenzene	mg/l	0.0381	0.0156	.025	90.0	63.6-132	L708024-12	WG730294
1,3-Dichlorobenzene	mg/l	0.0246	0.0	.025	98.0	63.1-131	L708024-12	WG730294
1,3-Dichloropropane	mg/l	0.0221	0.0	.025	88.0	67.9-121	L708024-12	WG730294
1,4-Dichlorobenzene	mg/l	0.0224	0.0	.025	90.0	68.6-123	L708024-12	WG730294
2,2-Dichloropropane	mg/l	0.0218	0.0	.025	87.0	50.5-144	L708024-12	WG730294
2-Butanone (MEK)	mg/l	0.107	0.0	.125	86.0	22.4-138	L708024-12	WG730294
2-Chloroethyl vinyl ether	mg/l	0.00834	0.0	.125	6.70*	10-155	L708024-12	WG730294
2-Chlorotoluene	mg/l	0.0235	0.0	.025	94.0	63.6-128	L708024-12	WG730294
2-Hexanone	mg/l	0.116	0.0	.125	93.0	43.3-137	L708024-12	WG730294
4-Chlorotoluene	mg/l	0.0233	0.0	.025	93.0	65.7-127	L708024-12	WG730294
4-Methyl-2-pentanone (MIBK)	mg/l	0.117	0.0	.125	94.0	60.8-140	L708024-12	WG730294
Acetone	mg/l	0.101	0.00860	.125	74.0	10-130	L708024-12	WG730294

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Tax I.D. 62-0814289

Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acrolein	mg/l	0.132	0.0	.125	110.	10-200	L708024-12	WG730294
Acrylonitrile	mg/l	0.106	0.0	.125	85.0	49.4-133	L708024-12	WG730294
Benzene	mg/l	0.0193	0.0	.025	77.0	54.3-133	L708024-12	WG730294
Bromobenzene	mg/l	0.0230	0.0	.025	92.0	63.9-124	L708024-12	WG730294
Bromodichloromethane	mg/l	0.0237	0.0	.025	95.0	63.9-121	L708024-12	WG730294
Bromoform	mg/l	0.0273	0.0	.025	110.	59.5-134	L708024-12	WG730294
Bromomethane	mg/l	0.0190	0.0	.025	76.0	41.7-155	L708024-12	WG730294
Carbon tetrachloride	mg/l	0.0231	0.0	.025	92.0	55.7-134	L708024-12	WG730294
Chlorobenzene	mg/l	0.0240	0.0	.025	96.0	67-125	L708024-12	WG730294
Chlorodibromomethane	mg/l	0.0249	0.0	.025	100.	64.3-125	L708024-12	WG730294
Chloroethane	mg/l	0.0234	0.0	.025	94.0	51.5-136	L708024-12	WG730294
Chloroform	mg/l	0.0231	0.00185	.025	85.0	63-129	L708024-12	WG730294
Chloromethane	mg/l	0.0148	0.0	.025	59.0	42.4-135	L708024-12	WG730294
cis-1,2-Dichloroethene	mg/l	0.0208	0.0	.025	83.0	59.2-129	L708024-12	WG730294
cis-1,3-Dichloropropene	mg/l	0.0230	0.0	.025	92.0	66.4-125	L708024-12	WG730294
Di-isopropyl ether	mg/l	0.0202	0.0	.025	81.0	56.9-136	L708024-12	WG730294
Dibromomethane	mg/l	0.0236	0.0	.025	94.0	68.2-124	L708024-12	WG730294
Dichlorodifluoromethane	mg/l	0.0184	0.0	.025	74.0	40.6-144	L708024-12	WG730294
Dichlorofluoromethane	mg/l	0.0208	0.0	.025	83.0	52.7-137	L708024-12	WG730294
Ethyl ether	mg/l	0.0200	0.0	.025	80.0	53.2-136	L708024-12	WG730294
Ethylbenzene	mg/l	0.0295	0.00719	.025	89.0	61.4-133	L708024-12	WG730294
Hexachloro-1,3-butadiene	mg/l	0.0244	0.0	.025	98.0	55.1-136	L708024-12	WG730294
Isopropylbenzene	mg/l	0.0314	0.00793	.025	94.0	66.8-141	L708024-12	WG730294
Methyl tert-butyl ether	mg/l	0.0218	0.0	.025	87.0	57.7-134	L708024-12	WG730294
Methylene Chloride	mg/l	0.0196	0.0	.025	78.0	58.1-122	L708024-12	WG730294
n-Butylbenzene	mg/l	0.0240	0.00159	.025	90.0	62.7-140	L708024-12	WG730294
n-Propylbenzene	mg/l	0.0320	0.00885	.025	92.0	65.9-131	L708024-12	WG730294
Naphthalene	mg/l	0.0283	0.00554	.025	91.0	58-135	L708024-12	WG730294
p-Isopropyltoluene	mg/l	0.0297	0.00336	.025	110.	63.2-139	L708024-12	WG730294
sec-Butylbenzene	mg/l	0.0287	0.00524	.025	94.0	62.2-136	L708024-12	WG730294
Styrene	mg/l	0.0238	0.0	.025	95.0	66.8-133	L708024-12	WG730294
tert-Butylbenzene	mg/l	0.0260	0.00220	.025	95.0	63.3-134	L708024-12	WG730294
Tetrachloroethene	mg/l	0.0239	0.0	.025	96.0	53-139	L708024-12	WG730294
Tetrahydrofuran	mg/l	0.0196	0.0	.025	78.0	40.9-145	L708024-12	WG730294
Toluene	mg/l	0.0214	0.0	.025	86.0	61.4-130	L708024-12	WG730294
trans-1,2-Dichloroethene	mg/l	0.0204	0.0	.025	82.0	56.5-129	L708024-12	WG730294
trans-1,3-Dichloropropene	mg/l	0.0251	0.0	.025	100.	64.1-128	L708024-12	WG730294
Trichloroethene	mg/l	0.0223	0.0	.025	89.0	44.1-149	L708024-12	WG730294
Trichlorofluoromethane	mg/l	0.0208	0.0	.025	83.0	49.6-145	L708024-12	WG730294
Vinyl chloride	mg/l	0.0175	0.0	.025	70.0	47.8-137	L708024-12	WG730294
Xylenes, Total	mg/l	0.0736	0.00483	.075	92.0	63.3-131	L708024-12	WG730294
4-Bromofluorobenzene					106.0	71-126		WG730294
Dibromofluoromethane					97.80	78.3-121		WG730294
Toluene-d8					103.0	88.5-111		WG730294
a,a,a-Trifluorotoluene					106.0	85-114		WG730294

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0259	0.0234	103.	64-128	10.2	20	L707088-01	WG729332
1,1,1-Trichloroethane	mg/l	0.0255	0.0226	102.	58.7-134	12.0	20	L707088-01	WG729332
1,1,2,2-Tetrachloroethane	mg/l	0.0262	0.0236	105.	56-132	10.3	22.2	L707088-01	WG729332
1,1,2-Trichloroethane	mg/l	0.0256	0.0237	102.	66.3-125	7.72	20	L707088-01	WG729332
1,1,2-Trichlorotrifluoroethane	mg/l	0.0258	0.0229	103.	54.8-154	12.1	22.5	L707088-01	WG729332
1,1-Dichloroethane	mg/l	0.0246	0.0219	98.5	58.5-132	11.7	20	L707088-01	WG729332
1,1-Dichloroethene	mg/l	0.0251	0.0224	100.	51.1-140	11.5	20.2	L707088-01	WG729332
1,1-Dichloropropene	mg/l	0.0249	0.0217	99.7	57.3-136	14.0	20	L707088-01	WG729332
1,2,3-Trichlorobenzene	mg/l	0.0243	0.0218	97.1	59.1-138	10.8	23.7	L707088-01	WG729332
1,2,3-Trichloropropane	mg/l	0.0263	0.0232	105.	61.4-128	12.8	22.4	L707088-01	WG729332

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Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2,3-Trimethylbenzene	mg/l	0.0246	0.0220	98.6	61.3-122	11.3	20	L707088-01	WG729332
1,2,4-Trichlorobenzene	mg/l	0.0247	0.0218	98.8	63.6-143	12.4	21.9	L707088-01	WG729332
1,2,4-Trimethylbenzene	mg/l	0.0250	0.0225	99.9	57.4-137	10.2	20	L707088-01	WG729332
1,2-Dibromo-3-Chloropropane	mg/l	0.0285	0.0253	114.	57.3-136	12.1	27	L707088-01	WG729332
1,2-Dibromoethane	mg/l	0.0261	0.0235	104.	67.1-125	10.3	20	L707088-01	WG729332
1,2-Dichlorobenzene	mg/l	0.0251	0.0224	100.	68.2-123	11.4	20	L707088-01	WG729332
1,2-Dichloroethane	mg/l	0.0254	0.0222	102.	60-126	13.4	20	L707088-01	WG729332
1,2-Dichloropropane	mg/l	0.0251	0.0217	100.	64.2-123	14.5	20	L707088-01	WG729332
1,3,5-Trimethylbenzene	mg/l	0.0250	0.0222	100.	63.6-132	11.8	20.5	L707088-01	WG729332
1,3-Dichlorobenzene	mg/l	0.0237	0.0216	94.7	63.1-131	9.41	20	L707088-01	WG729332
1,3-Dichloropropane	mg/l	0.0234	0.0210	93.7	67.9-121	10.9	20	L707088-01	WG729332
1,4-Dichlorobenzene	mg/l	0.0240	0.0214	95.9	68.6-123	11.5	20	L707088-01	WG729332
2,2-Dichloropropane	mg/l	0.0258	0.0223	103.	50.5-144	14.4	21.9	L707088-01	WG729332
2-Butanone (MEK)	mg/l	0.134	0.121	107.	22.4-138	10.5	27	L707088-01	WG729332
2-Chloroethyl vinyl ether	mg/l	0.00503	0.0273	4.02*	10-155	138.*	40	L707088-01	WG729332
2-Chlorotoluene	mg/l	0.0238	0.0217	95.1	63.6-128	8.97	20	L707088-01	WG729332
2-Hexanone	mg/l	0.129	0.117	103.	43.3-137	9.53	25.5	L707088-01	WG729332
4-Chlorotoluene	mg/l	0.0247	0.0220	99.0	65.7-127	11.6	20	L707088-01	WG729332
4-Methyl-2-pentanone (MIBK)	mg/l	0.136	0.122	108.	60.8-140	10.9	25.1	L707088-01	WG729332
Acetone	mg/l	0.150	0.141	93.3	10-130	6.22	27.9	L707088-01	WG729332
Acrolein	mg/l	0.165	0.144	132.	10-200	14.0	27.7	L707088-01	WG729332
Acrylonitrile	mg/l	0.134	0.119	107.	49.4-133	11.6	25.3	L707088-01	WG729332
Benzene	mg/l	0.0240	0.0214	96.2	54.3-133	11.4	20	L707088-01	WG729332
Bromobenzene	mg/l	0.0237	0.0214	94.7	63.9-124	10.1	20	L707088-01	WG729332
Bromodichloromethane	mg/l	0.0255	0.0227	102.	63.9-121	11.8	20	L707088-01	WG729332
Bromoform	mg/l	0.0271	0.0239	108.	59.5-134	12.4	20.8	L707088-01	WG729332
Bromomethane	mg/l	0.0293	0.0246	117.	41.7-155	17.3	20.5	L707088-01	WG729332
Carbon tetrachloride	mg/l	0.0277	0.0248	111.	55.7-134	10.9	20.3	L707088-01	WG729332
Chlorobenzene	mg/l	0.0245	0.0218	98.0	67-125	11.7	20	L707088-01	WG729332
Chlorodibromomethane	mg/l	0.0259	0.0227	104.	64.3-125	12.9	20	L707088-01	WG729332
Chloroethane	mg/l	0.0311	0.0264	124.	51.5-136	16.3	20.8	L707088-01	WG729332
Chloroform	mg/l	0.0253	0.0221	101.	63-129	13.4	20	L707088-01	WG729332
Chloromethane	mg/l	0.0212	0.0194	85.0	42.4-135	8.87	20	L707088-01	WG729332
cis-1,2-Dichloroethene	mg/l	0.0251	0.0224	100.	59.2-129	11.5	20	L707088-01	WG729332
cis-1,3-Dichloropropene	mg/l	0.0261	0.0235	104.	66.4-125	10.2	20	L707088-01	WG729332
Di-isopropyl ether	mg/l	0.0249	0.0221	99.8	56.9-136	12.3	20	L707088-01	WG729332
Dibromomethane	mg/l	0.0269	0.0236	108.	68.2-124	13.0	20	L707088-01	WG729332
Dichlorodifluoromethane	mg/l	0.0226	0.0211	90.5	40.6-144	7.04	20.2	L707088-01	WG729332
Dichlorofluoromethane	mg/l	0.0248	0.0220	99.1	52.7-137	12.0	20	L707088-01	WG729332
Ethyl ether	mg/l	0.0250	0.0221	100.	53.2-136	12.2	20	L707088-01	WG729332
Ethylbenzene	mg/l	0.0243	0.0216	97.0	61.4-133	11.8	20	L707088-01	WG729332
Hexachloro-1,3-butadiene	mg/l	0.0248	0.0225	99.2	55.1-136	9.87	23.6	L707088-01	WG729332
Isopropylbenzene	mg/l	0.0248	0.0224	99.4	66.8-141	10.4	20	L707088-01	WG729332
Methyl tert-butyl ether	mg/l	0.0253	0.0223	101.	57.7-134	12.7	20	L707088-01	WG729332
Methylene Chloride	mg/l	0.0240	0.0210	96.0	58.1-122	13.2	20	L707088-01	WG729332
n-Butylbenzene	mg/l	0.0256	0.0232	102.	62.7-140	9.91	20	L707088-01	WG729332
n-Propylbenzene	mg/l	0.0251	0.0225	100.	65.9-131	10.8	20	L707088-01	WG729332
Naphthalene	mg/l	0.0249	0.0224	99.5	58-135	10.6	25.5	L707088-01	WG729332
p-Isopropyltoluene	mg/l	0.0251	0.0223	100.	63.2-139	11.5	20.4	L707088-01	WG729332
sec-Butylbenzene	mg/l	0.0251	0.0224	100.	62.2-136	11.3	20.3	L707088-01	WG729332
Styrene	mg/l	0.0244	0.0219	97.4	66.8-133	10.7	20	L707088-01	WG729332
tert-Butylbenzene	mg/l	0.0248	0.0219	99.1	63.3-134	12.5	20.3	L707088-01	WG729332
Tetrachloroethene	mg/l	0.0253	0.0223	101.	53-139	12.5	20	L707088-01	WG729332
Tetrahydrofuran	mg/l	0.0255	0.0230	102.	40.9-145	10.5	27.3	L707088-01	WG729332
Toluene	mg/l	0.0250	0.0223	100.	61.4-130	11.5	20	L707088-01	WG729332
trans-1,2-Dichloroethene	mg/l	0.0259	0.0225	104.	56.5-129	14.1	20	L707088-01	WG729332
trans-1,3-Dichloropropene	mg/l	0.0279	0.0254	112.	64.1-128	9.41	20	L707088-01	WG729332
Trichloroethene	mg/l	0.0249	0.0223	99.7	44.1-149	11.1	20	L707088-01	WG729332
Trichlorofluoromethane	mg/l	0.0258	0.0230	103.	49.6-145	11.3	21.2	L707088-01	WG729332

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Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Vinyl chloride	mg/l	0.0236	0.0215	94.4	47.8-137	9.17	20	L707088-01	WG729332
Xylenes, Total	mg/l	0.0720	0.0655	96.0	63.3-131	9.49	20	L707088-01	WG729332
4-Bromofluorobenzene				102.0	71-126				WG729332
Dibromofluoromethane				104.0	78.3-121				WG729332
Toluene-d8				106.0	88.5-111				WG729332
a,a,a-Trifluorotoluene				104.0	85-114				WG729332
1,1,1,2-Tetrachloroethane	mg/l	0.0253	0.0256	101.	64-128	1.12	20	L707475-10	WG729620
1,1,1-Trichloroethane	mg/l	0.0262	0.0258	105.	58.7-134	1.39	20	L707475-10	WG729620
1,1,2,2-Tetrachloroethane	mg/l	0.0276	0.0262	110.	56-132	5.37	22.2	L707475-10	WG729620
1,1,2-Trichloroethane	mg/l	0.0239	0.0233	95.6	66.3-125	2.78	20	L707475-10	WG729620
1,1,2-Trichlorotrifluoroethane	mg/l	0.0247	0.0244	98.6	54.8-154	0.880	22.5	L707475-10	WG729620
1,1-Dichloroethane	mg/l	0.0258	0.0249	103.	58.5-132	3.87	20	L707475-10	WG729620
1,1-Dichloroethene	mg/l	0.0275	0.0269	110.	51.1-140	2.22	20.2	L707475-10	WG729620
1,1-Dichloropropene	mg/l	0.0269	0.0266	108.	57.3-136	0.990	20	L707475-10	WG729620
1,2,3-Trichlorobenzene	mg/l	0.0250	0.0242	100.	59.1-138	3.20	23.7	L707475-10	WG729620
1,2,3-Trichloropropane	mg/l	0.0266	0.0258	106.	61.4-128	3.31	22.4	L707475-10	WG729620
1,2,3-Trimethylbenzene	mg/l	0.0272	0.0265	109.	61.3-122	2.77	20	L707475-10	WG729620
1,2,4-Trichlorobenzene	mg/l	0.0268	0.0262	107.	63.6-143	2.16	21.9	L707475-10	WG729620
1,2,4-Trimethylbenzene	mg/l	0.0276	0.0266	110.	57.4-137	3.88	20	L707475-10	WG729620
1,2-Dibromo-3-Chloropropane	mg/l	0.0236	0.0229	94.2	57.3-136	3.04	27	L707475-10	WG729620
1,2-Dibromoethane	mg/l	0.0256	0.0250	102.	67.1-125	2.28	20	L707475-10	WG729620
1,2-Dichlorobenzene	mg/l	0.0268	0.0261	107.	68.2-123	2.91	20	L707475-10	WG729620
1,2-Dichloroethane	mg/l	0.0309	0.0301	123.	60-126	2.47	20	L707475-10	WG729620
1,2-Dichloropropane	mg/l	0.0268	0.0265	107.	64.2-123	1.19	20	L707475-10	WG729620
1,3,5-Trimethylbenzene	mg/l	0.0277	0.0264	111.	63.6-132	4.80	20.5	L707475-10	WG729620
1,3-Dichlorobenzene	mg/l	0.0276	0.0266	110.	63.1-131	3.81	20	L707475-10	WG729620
1,3-Dichloropropane	mg/l	0.0253	0.0249	101.	67.9-121	1.41	20	L707475-10	WG729620
1,4-Dichlorobenzene	mg/l	0.0266	0.0260	106.	68.6-123	2.50	20	L707475-10	WG729620
2,2-Dichloropropane	mg/l	0.0232	0.0226	92.7	50.5-144	2.33	21.9	L707475-10	WG729620
2-Butanone (MEK)	mg/l	0.133	0.135	106.	22.4-138	1.64	27	L707475-10	WG729620
2-Chloroethyl vinyl ether	mg/l	0.130	0.133	104.	10-155	2.69	20	L707475-10	WG729620
2-Chlorotoluene	mg/l	0.0275	0.0257	110.	63.6-128	6.47	20	L707475-10	WG729620
2-Hexanone	mg/l	0.126	0.125	100.	43.3-137	0.720	25.5	L707475-10	WG729620
4-Chlorotoluene	mg/l	0.0286	0.0272	114.	65.7-127	4.98	20	L707475-10	WG729620
4-Methyl-2-pentanone (MIBK)	mg/l	0.137	0.138	109.	60.8-140	0.700	25.1	L707475-10	WG729620
Acetone	mg/l	0.128	0.125	98.1	10-130	2.78	27.9	L707475-10	WG729620
Acrolein	mg/l	0.132	0.126	105.	10-200	4.29	27.7	L707475-10	WG729620
Acrylonitrile	mg/l	0.131	0.129	104.	49.4-133	1.55	25.3	L707475-10	WG729620
Benzene	mg/l	0.0278	0.0272	111.	54.3-133	2.19	20	L707475-10	WG729620
Bromobenzene	mg/l	0.0280	0.0265	112.	63.9-124	5.34	20	L707475-10	WG729620
Bromodichloromethane	mg/l	0.0269	0.0264	108.	63.9-121	1.91	20	L707475-10	WG729620
Bromoform	mg/l	0.0245	0.0229	97.9	59.5-134	6.83	20.5	L707475-10	WG729620
Bromomethane	mg/l	0.0314	0.0301	126.	41.7-155	4.14	21.9	L707475-10	WG729620
Carbon tetrachloride	mg/l	0.0261	0.0258	104.	55.7-134	0.980	20	L707475-10	WG729620
Chlorobenzene	mg/l	0.0253	0.0255	101.	67-125	1.03	20	L707475-10	WG729620
Chlorodibromomethane	mg/l	0.0257	0.0254	103.	64.3-125	1.28	20.8	L707475-10	WG729620
Chloroethane	mg/l	0.0326	0.0321	130.	51.5-136	1.62	40	L707475-10	WG729620
Chloroform	mg/l	0.0263	0.0261	105.	63-129	0.660	20	L707475-10	WG729620
Chloromethane	mg/l	0.0269	0.0262	107.	42.4-135	2.51	20	L707475-10	WG729620
cis-1,2-Dichloroethene	mg/l	0.0263	0.0250	105.	59.2-129	5.08	20	L707475-10	WG729620
cis-1,3-Dichloropropene	mg/l	0.0267	0.0263	107.	66.4-125	1.82	20	L707475-10	WG729620
Di-isopropyl ether	mg/l	0.0258	0.0250	103.	56.9-136	3.19	20	L707475-10	WG729620
Dibromomethane	mg/l	0.0265	0.0253	106.	68.2-124	4.56	20	L707475-10	WG729620
Dichlorodifluoromethane	mg/l	0.0258	0.0251	103.	40.6-144	2.66	20.2	L707475-10	WG729620
Dichlorofluoromethane	mg/l	0.0273	0.0271	109.	52.7-137	0.640	20	L707475-10	WG729620
Ethyl ether	mg/l	0.0269	0.0262	107.	53.2-136	2.33	20	L707475-10	WG729620
Ethylbenzene	mg/l	0.0252	0.0250	101.	61.4-133	0.870	20	L707475-10	WG729620

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Tax I.D. 62-0814289

Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Hexachloro-1,3-butadiene	mg/l	0.0245	0.0243	98.0	55.1-136	0.650	23.6	L707475-10	WG729620
Isopropylbenzene	mg/l	0.0270	0.0260	108.	66.8-141	3.43	20	L707475-10	WG729620
Methyl tert-butyl ether	mg/l	0.0250	0.0242	99.9	57.7-134	3.00	20	L707475-10	WG729620
Methylene Chloride	mg/l	0.0235	0.0233	94.2	58.1-122	1.11	20	L707475-10	WG729620
n-Butylbenzene	mg/l	0.0296	0.0293	118.	62.7-140	1.15	20.3	L707475-10	WG729620
n-Propylbenzene	mg/l	0.0282	0.0273	113.	65.9-131	2.98	20	L707475-10	WG729620
Naphthalene	mg/l	0.0254	0.0246	102.	58-135	3.09	25.5	L707475-10	WG729620
p-Isopropyltoluene	mg/l	0.0280	0.0272	112.	63.2-139	2.77	20.4	L707475-10	WG729620
sec-Butylbenzene	mg/l	0.0277	0.0264	111.	62.2-136	4.86	20.3	L707475-10	WG729620
Styrene	mg/l	0.0280	0.0267	112.	66.8-133	4.79	20	L707475-10	WG729620
tert-Butylbenzene	mg/l	0.0268	0.0258	107.	63.3-134	3.88	21	L707475-10	WG729620
Tetrachloroethene	mg/l	0.0241	0.0240	96.6	53-139	0.750	20	L707475-10	WG729620
Tetrahydrofuran	mg/l	0.0265	0.0253	106.	40.9-145	4.82	27.3	L707475-10	WG729620
Toluene	mg/l	0.0266	0.0269	106.	61.4-130	0.990	20	L707475-10	WG729620
trans-1,2-Dichloroethene	mg/l	0.0239	0.0235	95.6	56.5-129	1.50	20	L707475-10	WG729620
trans-1,3-Dichloropropene	mg/l	0.0256	0.0263	102.	64.1-128	2.60	20	L707475-10	WG729620
Trichloroethene	mg/l	0.0270	0.0261	108.	44.1-149	3.14	20	L707475-10	WG729620
Trichlorofluoromethane	mg/l	0.0263	0.0259	105.	49.6-145	1.35	21.2	L707475-10	WG729620
Vinyl chloride	mg/l	0.0251	0.0242	100.	47.8-137	3.77	20	L707475-10	WG729620
Xylenes, Total	mg/l	0.0794	0.0772	106.	63.3-131	2.78	20	L707475-10	WG729620
4-Bromofluorobenzene				99.70	71-126				WG729620
Dibromofluoromethane				101.0	78.3-121				WG729620
Toluene-d8				102.0	88.5-111				WG729620
a,a,a-Trifluorotoluene				95.90	85-114				WG729620
1,1,1,2-Tetrachloroethane	mg/l	0.0285	0.0255	114.	64-128	11.0	20	L708024-12	WG730294
1,1,1-Trichloroethane	mg/l	0.0241	0.0220	96.2	58.7-134	8.81	20	L708024-12	WG730294
1,1,2,2-Tetrachloroethane	mg/l	0.0274	0.0247	110.	56-132	10.3	22.2	L708024-12	WG730294
1,1,2-Trichloroethane	mg/l	0.0298	0.0280	119.	66.3-125	6.20	20	L708024-12	WG730294
1,1,2-Trichlorotrifluoroethane	mg/l	0.0230	0.0214	92.1	54.8-154	7.42	22.5	L708024-12	WG730294
1,1-Dichloroethane	mg/l	0.0223	0.0203	89.4	58.5-132	9.46	20	L708024-12	WG730294
1,1-Dichloroethene	mg/l	0.0203	0.0190	81.2	51.1-140	6.78	20.2	L708024-12	WG730294
1,1-Dichloropropene	mg/l	0.0209	0.0193	83.4	57.3-136	7.73	20	L708024-12	WG730294
1,2,3-Trichlorobenzene	mg/l	0.0256	0.0231	102.	59.1-138	10.5	23.7	L708024-12	WG730294
1,2,3-Trichloropropane	mg/l	0.0288	0.0252	115.	61.4-128	13.4	22.4	L708024-12	WG730294
1,2,3-Trimethylbenzene	mg/l	0.0590	0.0571	82.5	61.3-122	3.27	20	L708024-12	WG730294
1,2,4-Trichlorobenzene	mg/l	0.0265	0.0235	106.	63.6-143	11.7	21.9	L708024-12	WG730294
1,2,4-Trimethylbenzene	mg/l	0.105	0.105	67.6	57.4-137	0.440	20	L708024-12	WG730294
1,2-Dibromo-3-Chloropropane	mg/l	0.0291	0.0260	116.	57.3-136	11.4	27	L708024-12	WG730294
1,2-Dibromoethane	mg/l	0.0271	0.0248	108.	67.1-125	9.10	20	L708024-12	WG730294
1,2-Dichlorobenzene	mg/l	0.0265	0.0236	106.	68.2-123	11.5	20	L708024-12	WG730294
1,2-Dichloroethane	mg/l	0.0233	0.0215	93.2	60-126	7.88	20	L708024-12	WG730294
1,2-Dichloropropane	mg/l	0.0233	0.0215	93.2	64.2-123	7.94	20	L708024-12	WG730294
1,3,5-Trimethylbenzene	mg/l	0.0400	0.0381	97.4	63.6-132	4.80	20.5	L708024-12	WG730294
1,3-Dichlorobenzene	mg/l	0.0269	0.0246	108.	63.1-131	8.86	20	L708024-12	WG730294
1,3-Dichloropropane	mg/l	0.0249	0.0221	99.6	67.9-121	12.0	20	L708024-12	WG730294
1,4-Dichlorobenzene	mg/l	0.0249	0.0224	99.8	68.6-123	10.8	20	L708024-12	WG730294
2,2-Dichloropropane	mg/l	0.0239	0.0218	95.7	50.5-144	9.33	21.9	L708024-12	WG730294
2-Butanone (MEK)	mg/l	0.121	0.107	96.7	22.4-138	12.1	27	L708024-12	WG730294
2-Chloroethyl vinyl ether	mg/l	0.000439	0.00834	0.351*	10-155	180.*	20	L708024-12	WG730294
2-Chlorotoluene	mg/l	0.0258	0.0235	103.	63.6-128	9.38	20	L708024-12	WG730294
2-Hexanone	mg/l	0.130	0.116	104.	43.3-137	11.6	25.5	L708024-12	WG730294
4-Chlorotoluene	mg/l	0.0254	0.0233	102.	65.7-127	8.68	20	L708024-12	WG730294
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.117	102.	60.8-140	8.49	25.1	L708024-12	WG730294
Acetone	mg/l	0.112	0.101	82.5	10-130	9.86	27.9	L708024-12	WG730294
Acrolein	mg/l	0.144	0.132	115.	10-200	8.75	27.7	L708024-12	WG730294
Acrylonitrile	mg/l	0.117	0.106	93.3	49.4-133	9.15	25.3	L708024-12	WG730294
Benzene	mg/l	0.0213	0.0193	85.2	54.3-133	9.58	20	L708024-12	WG730294

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Est. 1970

Weston Solutions - MI
Ms. Chris Tufts
2501 Jolly Rd., Ste. 100

Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Bromobenzene	mg/l	0.0251	0.0230	100.	63.9-124	8.46	20	L708024-12	WG730294
Bromodichloromethane	mg/l	0.0257	0.0237	103.	63.9-121	8.17	20	L708024-12	WG730294
Bromoform	mg/l	0.0302	0.0273	121.	59.5-134	10.2	20.5	L708024-12	WG730294
Bromomethane	mg/l	0.0195	0.0190	77.8	41.7-155	2.37	21.9	L708024-12	WG730294
Carbon tetrachloride	mg/l	0.0265	0.0231	106.	55.7-134	13.6	20	L708024-12	WG730294
Chlorobenzene	mg/l	0.0267	0.0240	107.	67-125	10.6	20	L708024-12	WG730294
Chlorodibromomethane	mg/l	0.0278	0.0249	111.	64.3-125	11.1	20.8	L708024-12	WG730294
Chloroethane	mg/l	0.0266	0.0234	106.	51.5-136	12.8	40	L708024-12	WG730294
Chloroform	mg/l	0.0251	0.0231	93.1	63-129	8.64	20	L708024-12	WG730294
Chloromethane	mg/l	0.0153	0.0148	61.1	42.4-135	3.13	20	L708024-12	WG730294
cis-1,2-Dichloroethene	mg/l	0.0231	0.0208	92.3	59.2-129	10.4	20	L708024-12	WG730294
cis-1,3-Dichloropropene	mg/l	0.0253	0.0230	101.	66.4-125	9.53	20	L708024-12	WG730294
Di-isopropyl ether	mg/l	0.0220	0.0202	87.9	56.9-136	8.30	20	L708024-12	WG730294
Dibromomethane	mg/l	0.0260	0.0236	104.	68.2-124	9.86	20	L708024-12	WG730294
Dichlorodifluoromethane	mg/l	0.0194	0.0184	77.5	40.6-144	4.93	20.2	L708024-12	WG730294
Dichlorofluoromethane	mg/l	0.0223	0.0208	89.3	52.7-137	7.21	20	L708024-12	WG730294
Ethyl ether	mg/l	0.0216	0.0200	86.5	53.2-136	7.95	20	L708024-12	WG730294
Ethylbenzene	mg/l	0.0317	0.0295	98.0	61.4-133	7.16	20	L708024-12	WG730294
Hexachloro-1,3-butadiene	mg/l	0.0265	0.0244	106.	55.1-136	8.21	23.6	L708024-12	WG730294
Isopropylbenzene	mg/l	0.0333	0.0314	102.	66.8-141	5.96	20	L708024-12	WG730294
Methyl tert-butyl ether	mg/l	0.0241	0.0218	96.2	57.7-134	9.73	20	L708024-12	WG730294
Methylene Chloride	mg/l	0.0218	0.0196	87.0	58.1-122	10.5	20	L708024-12	WG730294
n-Butylbenzene	mg/l	0.0257	0.0240	96.6	62.7-140	7.03	20.3	L708024-12	WG730294
n-Propylbenzene	mg/l	0.0337	0.0320	99.5	65.9-131	5.31	20	L708024-12	WG730294
Naphthalene	mg/l	0.0319	0.0283	105.	58-135	11.8	25.5	L708024-12	WG730294
p-Isopropyltoluene	mg/l	0.0316	0.0297	113.	63.2-139	6.10	20.4	L708024-12	WG730294
sec-Butylbenzene	mg/l	0.0309	0.0287	102.	62.2-136	7.31	20.3	L708024-12	WG730294
Styrene	mg/l	0.0262	0.0238	105.	66.8-133	9.39	20	L708024-12	WG730294
tert-Butylbenzene	mg/l	0.0289	0.0260	107.	63.3-134	10.8	21	L708024-12	WG730294
Tetrachloroethene	mg/l	0.0270	0.0239	108.	53-139	12.2	20	L708024-12	WG730294
Tetrahydrofuran	mg/l	0.0209	0.0196	83.6	40.9-145	6.55	27.3	L708024-12	WG730294
Toluene	mg/l	0.0237	0.0214	94.9	61.4-130	10.2	20	L708024-12	WG730294
trans-1,2-Dichloroethene	mg/l	0.0225	0.0204	89.8	56.5-129	9.37	20	L708024-12	WG730294
trans-1,3-Dichloropropene	mg/l	0.0273	0.0251	109.	64.1-128	8.36	20	L708024-12	WG730294
Trichloroethene	mg/l	0.0250	0.0223	99.8	44.1-149	11.4	20	L708024-12	WG730294
Trichlorofluoromethane	mg/l	0.0226	0.0208	90.2	49.6-145	8.08	21.2	L708024-12	WG730294
Vinyl chloride	mg/l	0.0184	0.0175	73.7	47.8-137	5.18	20	L708024-12	WG730294
Xylenes, Total	mg/l	0.0802	0.0736	100.	63.3-131	8.60	20	L708024-12	WG730294
4-Bromofluorobenzene				106.0	71-126				WG730294
Dibromofluoromethane				97.10	78.3-121				WG730294
Toluene-d8				102.0	88.5-111				WG730294
a,a,a-Trifluorotoluene				106.0	85-114				WG730294

Batch number /Run number / Sample number cross reference

WG729332: R2952007: L707475-02 03 04 05 06
WG729620: R2955045: L707475-01 10 11 12 13 14 15
WG730294: R2956308: L707475-08 09

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

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Okemos, MI 48864

Quality Assurance Report
Level II

L707475

July 07, 2014

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.

EPA-R5-2017-010506_0001858

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Weston Solutions-Houghton, MI

P.O. Box 577
Houghton, MI 49931

Billing Information:
~~Ms. Michelle Bakkila~~ MR. PAUL BARTZ
~~600 E. Lakeshore Dr. Ste 200~~
~~Houghton, MI 49931~~
2501 JOLLEY RD, STE 100
OKEMOS, MI 48864

Report to: Chris Tufts

Email To: ~~christine.tufts@westonsolutions.com~~ paul.bartz@westonsolutions.com

Project Description: Haskell Lake, WI

City/State Collected: LAC DU FLAMBEAU WISCONSIN

Phone: 906-482-6462
Fax:

Client Project # 15260.001.001

Lab Project # WESSOLHMI-HASKELL

Collected by (print): CHRIS TUFTS

Site/Facility ID # WI

P.O. #

Collected by (signature): CTUFTS

Immediately Packed on Ice N ___ Y X

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

Date Results Needed: STANDARD TAT

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L707475
C132
Acctnum: WESSOLHMI
Template: T94938
Prelogin: P473186
TSR: 044 - Leslie Newton
PB: 6-17 KW
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260/465 40mlAmb-HCl	V8260/465 40mlAmb-HCl-Blk								Rem./Contaminant	Sample # (lab only)
VAS-01 (50')	G	GW		6/26/14	1110	2	X										-01
VAS-01 (35')	↓	GW		↓	1210	2	X										-02
VAS-01 (20')		GW			1250	2	X										-03
~~VAS-01 (5')~~		~~GW~~				~~2~~	~~X~~ OK									NO SAMPLE	
VAS-02 (45')		GW			1540	2	X										-04
VAS-02 (35')		GW			~~1540~~ or 1615	2	X										-05
VAS-02 (35') D		GW			1615	2	X										-06
VAS-02 (20')		GW			1655	2	X										-07
VAS-02 (5')		GW			1740	2	X										-08
	↓	GW		↓		2	X										

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

Remarks: 6089 7165 4950

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
CTUFTS / WESTON	06/27/14	1530	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 3.6 °C Bottles Received: 29 VP

Date: 6/28/14 Time: 09:00

Condition: OK (lab use only) JWS

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Weston Solutions-Houghton, MI

P.O. Box 577
Houghton, MI 49931

Billing Information:
~~Ms. Michelle Bakkila~~ MR. PAUL BARTZ
~~600 E. Lakeshore Dr. Ste 200~~
~~Houghton, MI 49931~~
2501 JOLLEY RD, STE 100
OKEMOS, MI 48864

Report to: Chris Tufts

Email To: ~~christine.tufts@westonsolutions.com~~
PAUL.BARTZ

Project Description: Haskell Lake, WI

City/State Collected: LAC DU FLAMBEAU WI

Phone: 906-482-6462
Fax:

Client Project # 15260.001.001

Lab Project # WESSOLHMI-HASKELL

Collected by (print): CHRIS TUFTS

Site/Facility ID # WI

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Date Results Needed: STANDARD TAT

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L707475

Table #

Acctnum: WESSOLHMI
Template: T94938
Prelogin: P473186
TSR: 044 - Leslie Newton
PB: 6-18 KW
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260/465 40mlAmb-HCl	V8260/465 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
VAS-03 (41')	G	GW		06/27/14	0830	2	X			-09
VAS-03 (26')	↓	GW		↓	0930	2	X			-10
VAS-03 (11')	↓	GW		↓	1020	2	X			-11
VAS-04 (46')	↓	GW		↓	1235	2	X			-12
VAS-04 (31')	↓	GW		↓	1315	2	X			-13
		GW				2	X			
		GW				2	X			
		GW				2	X			
		GW				2	X			
		GW				2	X			

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
C. TUFTS / WESTON	06/27/14	1530	FEDEX		JWS
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 °C Bottles Received: 29 VP	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/28/14 Time: 09:00	pH Checked: NCF:

Weston Solutions-Houghton, MI

P.O. Box 577
~~Houghton, MI 49931~~

Billing Information:
~~Ms. Michelle Bakkila~~ MR. PAUL BARTZ
~~600 E. Lakeshore Dr. Ste 200~~
~~Houghton, MI 49931~~
2501 JOLLEY RD, STE 100
OKEMOS, MI 48864

Report to: Chris Tufts

Email To: ~~christine.tufts~~@westonsolutions.com
Paul. Bartz

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City/State Collected: LAC DU FLAMBEAU WI

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Client Project # 15260.001.001

Lab Project # WESSOLHMI-HASKELL

Collected by (print): CHRIS TUFTS

Site/Facility ID # WI

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

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

Date Results Needed: STANDARD TAT

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

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L# L707475

Table #

Acctnum: WESSOLHMI
Template: T94938
Prelogin: P473186
TSR: 044 - Leslie Newton
PB: 6-17 KW
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260/465 40mlAmb-HCl	V8260/465 40mlAmb-HCl-Blk								Rem./Contaminant	Sample # (lab only)
		GW				2	X										
		GW				2	X										
FIELD BLANK	G	GW		07/27/14	0740	2	X										-14
~~TRIP BLANK~~	—	GW		06/26/14	—	1		X									-15

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
C. TUFTS / WESTON	06/27/14	1530	[signature]		JWS OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 °C Bottles Received: 29VP	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 6/28/14 Time: 09:00	pH Checked: NCF: