



# QUARTERLY MONITORING REPORT (QMR) COVER SHEET AND REPORT FORMAT

State Form 56087 (6-16)  
329 IAC 9-5  
Indiana Department of Environmental Management  
Office of Land Quality  
Leaking Underground Storage Tank Section

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
Attention: Leaking UST Section  
Office of Land Quality  
100 N. Senate Ave., MC 67-18, IGCN 1101  
Indianapolis, IN 46204-2251

### INSTRUCTIONS:

- This form is intended to assist with the organization of the Quarterly Monitoring Report (QMR). Additional information and guidance may be found in Rule 329 IAC 9-5-7(f)(1)(L) and Chapter 3 of the Remediation Program Guide.
- The Cover Sheet should be attached as cover to your QMR submittal. The directions for the required QMR format are not required to be attached.
- Depending on the nature of the project, some of the following sections or appendices may not be applicable. If this is the case, do not leave the section blank, omit, or reorder the appendices. Instead, enter "Not Applicable" or other explanation to indicate that the section does not apply or that information is not available, and why.

A. FACILITY INFORMATION		
Quarter: 3rd	Year: 2016	FACILITY IDENTIFICATION NUMBER: 9365
Facility Name: Whitley Mobile Homes		LUST Incident Number(s): 199703151
Street Address (number and street): 702 South State Street		
City: South Whitley	County: Whitley	ZIP Code: 46787
B. CURRENT SITE PRIORITY INFORMATION		
Was free product present this quarter?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Are vapors detected in any confined spaces (basements, sewers, etc.)?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Are utilities impacted or likely to be acting as conduits for contaminant migration?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Are any drinking water wells impacted?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
C. SAMPLING INFORMATION		
Purpose for monitoring:	<input type="checkbox"/> Site Characterization <input checked="" type="checkbox"/> Remediation Progress <input type="checkbox"/> Plume Stability <input type="checkbox"/> Closure	
Product type:	<input type="checkbox"/> Gasoline <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Waste Oil <input type="checkbox"/> Other	
Number of monitoring wells sampled this quarter:	11	
Number of monitoring wells installed:	11	
Groundwater sampling method:	<input type="checkbox"/> Low Flow <input type="checkbox"/> No Purge <input checked="" type="checkbox"/> Purge	
Groundwater analytical method(s):	<input checked="" type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input checked="" type="checkbox"/> PAHs <input type="checkbox"/> Metals	
D. SYSTEM INFORMATION		
Active remediation system:	System type: N/A	Start-up date (month, day, year):
Number of extraction wells:		
Number of air sparge wells:		
Percent of time system was operational this quarter:	%	

**E. TANK(S) OWNER INFORMATION**

Owner Name: Lee Eberly		
Street Address (number and street): 702 South State Street		
City: South Whitley	State: IN	ZIP Code: 46787
Contact Person: Tammy Eberly	Telephone Number: 260-723-4759	
E-mail Address: taeberly@whitleymh.com		

**F. REPORT PREPARER INFORMATION**

Company Name: SES Environmental		
Street Address (number and street): 3807 Transportation Drive		
City: Fort Wayne	State: IN	ZIP Code: 46818
Contact Person: Rose Gabet	Telephone Number: 260-497-7645	
E-mail Address: r.gabet@sesadvantage.com		

**G. CERTIFICATION OF REPORT COMPLETION**

I, the undersigned environmental professional, hereby attest to the best of my knowledge and belief that the statements in this document and all attachments are true, accurate, and completed per 329 IAC 9-5-7(f)(1)(L). I certify that the attached report was submitted to IDEM Leaking Underground Storage Tank Section on the date listed below.

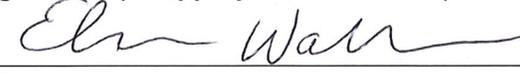
Name Rose Gabet	Position Senior Project Manager	Company SES Environmental	Date (month, day, year) 11/19/2016
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**Environmental Professional Credentials**

Signature:  LPG #1870 Date (month, day, year): 11/19/2016

Please note, per 329 IAC 9, this document must be signed by a Registered Professional Engineer, a Licensed Professional Geologist, a Certified Hazardous Materials Manager, or a Professional Soil Scientist. All must be specifically certified in the State of Indiana.

**Additional Signatures (as appropriate or desired)**

Signature:  Date (month, day, year): 11/19/2016

Printed name: Elizabeth Wallace

Signature: \_\_\_\_\_ Date (month, day, year): \_\_\_\_\_

Printed name: \_\_\_\_\_

**QUARTERLY MONITORING REPORT**  
*Third Quarter 2016*

**Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County**

*IDEM Incident #1997-03-151  
Facility ID # 9365*

November 19, 2016

*Prepared for:*

Whitley Mobile Homes, Inc.  
702 South State Street  
South Whitley, Indiana

*Prepared by:*



A handwritten signature in black ink, appearing to read 'Rose Gabet', written over a horizontal line.

Rose Gabet, L.P.G.  
Project Geologist

A handwritten signature in black ink, appearing to read 'Elizabeth Wallace', written over a horizontal line.

Elizabeth Wallace  
Project Manager

### ***EXECUTIVE SUMMARY***

Quarterly monitoring was conducted to satisfy third quarter 2016 groundwater sampling requirements for petroleum release incident #1997-03151 at Whitley Mobile Homes located at 702 South State Street in South Whitley, Whitley County, Indiana.

Third quarter monitoring was conducted on 26-Jul-16 and is summarized as follows:

- Depth to groundwater measurements ranged between 3.36 and 9.44 feet below top of casings. Groundwater flow direction was to the north, which is consistent with previous data.
- Trace liquid phase hydrocarbon (LPH) was detected at MW-8 during this monitoring event.
- Groundwater samples were collected for BTEX/MTBE and cPAH analyses.
- BTEX/MTBE was not detected at any well location during this monitoring event.
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene concentrations detected at MW-8 exceed RDCLs.
- BTEX/MTBE and cPAH constituents were not detected at the onsite irrigation well.

Quarterly groundwater monitoring will continue through 4<sup>th</sup> quarter 2016.

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## 1.0 SITE DESCRIPTION

This report documents third quarter 2016 groundwater monitoring conducted at the Whitley Mobile Homes facility, located at 702 South State Street (a.k.a. State Roads 5 and 14), South Whitley, Whitley County, Indiana (herein after referred to as the site). This monitoring event is the eighteenth sampling event following targeted soil removal from the former petroleum source areas.

This report begins by summarizing site background conditions followed by details of recent sampling methods and results. Figures are provided following the text. This report concludes with a compilation of historical investigation results, a laboratory testing report, and Corrective Action Progress Report (CAPR) form in the appendices.

### 1.1 Regional Location

The property is located within the southeast portion of the South Whitley corporation limits at 702 South State Street and is part of the northwest  $\frac{1}{4}$  of the southwest  $\frac{1}{4}$  of Section 3, Range 8 east, Township 30 north as shown on the South Whitley East and West, Indiana topographic map (Figure 1).

### 1.2 Site Location

- The 1.95-acre property is currently operated as Whitley Mobile Homes and has been owned by Lee Eberly since 1962. Mobile home lots are located south of the property. The specific area of interest (site) includes the north central portion of the property surrounded by structures identified as Buildings numbered 1 through 4 on Figure 1. These structures are utilized for various truck and trailer maintenance. Fueling operations from a gasoline UST are conducted east of Building 2. A diesel fuel above ground storage tank (AST), fuel dispenser and a canopy are located along the northeast site boundary, along the Eel River.
- Storm water at the site is controlled by an engineered drainage system that directs discharge north to the Eel River (Figure 2). Surfaces covering the site include concrete and asphalt, and are steeply graded to the north and east.
- Subsurface utilities within the site area include gas, water, sanitary sewer, storm sewer, and electric. Utility locations are detailed on Figure 3.
- A groundwater irrigation supply well is located at the north edge of the site (Figure 3). Information regarding well depth and construction is not available.
- Surrounding property use is primarily agricultural and residential. A man-made lake is located southeast of the property with agricultural fields beyond. South State Street (State Roads 5 and 14) extends along the west property boundary with residential properties beyond. The Eel River borders the site to the northeast with agricultural fields beyond. The Eel River flows to the northwest along the northeast site boundary (Figure 2).

### 1.3 Previous Investigation Summary

Previous investigations are summarized below.

- The closure of one 4,000-gallon diesel fuel tank was documented in a 24-Mar-97 "Underground Petroleum Storage Tank (UST) Closure Report" prepared by Creek Run LLC. The tank was located east of building 2 near the operating gasoline UST. Soil from the tank excavation was returned to the basin. Soil testing results indicated elevated TPH-ERO concentrations along the north and east UST basin walls. During tank removal, product sheen was observed on the Eel River and was traced back to a field tile transecting the

UST basin and discharging to the Eel River. The release was reported and assigned incident #1997-03-151.

- Creek Run LLC prepared a 20-Day Initial Response/Abatement report to document emergency response actions. Emergency response included construction of a product collection trench, deployment of absorbent pads and booms, and advancement of eleven soil borings to evaluate petroleum impact to soil and groundwater. The drainage tile was cut and sealed between the UST basin and the river. Subsurface investigation results indicated elevated petroleum concentrations (>100 ppm) to the north and east of the UST basin. Groundwater samples obtained from two soil borings located along the Eel River did not exhibit petroleum impact.
- IDEM correspondence dated 5-Dec-08 requested an initial site characterization (ISC) investigation for incident #1997-03-151.
- An ISC investigation was conducted by SES in January 2009 to determine the extent of petroleum impact and to evaluate sensitive receptors and preferential migration pathways. Investigation included six soil borings (GP-1 through GP-6) and three groundwater monitor well installations (MW-1a, MW-2a, and MW-3a). Soil borings and monitor wells were advanced in the vicinity of the former diesel UST basin. Results indicated elevated TPH-ERO and naphthalene concentrations were present in groundwater and soil from depths between approximately six and twelve feet. Two monitor wells installed by Creek Run in 1998 were located, developed, and identified as CR-W1 and CR-W2 (Figure 3). An on-site irrigation well is the closest water supply well to the release. A public supply well is located approximately 2,000 feet southwest and a domestic well is located 800 feet southwest. These water supply wells and the Eel River are the closest sensitive receptors. The site is not located in a wellhead protection area.
- IDEM LUST Section requested additional site investigation in correspondence dated 2-Apr-09. Specifically, the agency requested the addition of several contaminants of concern to all future work scopes based on existing tankage.
- Based on IDEM response and observed site conditions, SES determined a UST closure report had not been prepared to document the 1998 removal of three USTs from the site. Creek Run, LLC had conducted the UST closures; however, a formal UST closure report was not prepared. Whitley Mobile Homes provided testing results, which documented the 1998 tank closure.
- SES submitted an “*Underground Petroleum Storage Tank Environmental Closure Assessment*” dated 6-Jul-09 to document the 1998 UST closures. Two tanks were used to store diesel fuel and one was for waste oil storage. The diesel tanks were located in a common basin near Building 2, while the used oil tank was located near the northwest corner of Building 3. Creek Run conducted closure soil sampling. Soil samples were analyzed for TPH-ERO and DRO, as required at that time. Sampling results confirmed petroleum impact at each tank area. The following table details historical and current storage tank inventory.

Petroleum Storage Tanks Whitley Mobile Homes South Whitley, Whitley County						
Tank ID	Location	Capacity	Construction	Contents	Date Installed	Date Removed
1 UST	east of bldg #2	6,000	steel	diesel	May-93	Dec-1998
2 UST	east of bldg #2	4,000	steel	diesel	Jul-87	24-Mar-97
3 UST	east of bldg #2	6,000	steel	diesel	Jun-92	Dec-1998
4 UST	east of bldg #2	4,000	steel	gasoline	4-May-94	in-use
5 UST	west of bldg #3	1,000	steel	used oil	Apr-92	Dec-1998

- A *Further Site Investigation Strategy* letter was submitted to the IDEM LUST Section via e-mail on 18-Sep-09. The proposed strategy was approved with the addition of BTEX/MTBE analysis of soil and groundwater in the vicinity of the gasoline UST.



- Further site investigation (FSI) was conducted in Sep-09 and consisted of groundwater monitor well installation at MW-5 through MW-8 and advancement of soil borings GP-9 through GP-11. MW-7 was installed in the former waste oil UST area. Soil and groundwater samples were tested for diesel and waste oil COCs according to an agency-approved FSI work scope. The only contaminants of concern (COCs) in soil exceeding RDCLs were TPH (ERO), naphthalene, and 2-methylnaphthalene. TPH was the most widespread COC. The vertical petroleum impact extent was generally limited to within 16 feet of the ground surface. The soil TPH ERO impact extent was generally delineated to RDCLs, except east of MW-6 and northwest of MW-5. Soil PAHs were also delineated, except east of MW-6. Soil and groundwater at MW-7 was analyzed for waste oil COCs. Only groundwater TPH-ERO exceeded RDCLs at MW-7. Due to quality control/matrix interference issues, the reported TPH ERO concentrations were suspect.
- Groundwater monitoring was conducted using micro-purge sampling methods between April 7 and 12, 2010. Monitoring was conducted as part of additional site investigation according to IDEM requests outlined in 23-Mar-10 correspondence. Groundwater flow was to the northeast. TPH ERO concentrations exceeded RDCLs at MW-1a, MW-2a, MW-3a, MW-5, MW-6, and CR-W2. Naphthalene concentrations exceeded the RDCL at MW-2a and MW-5. Groundwater at MW-7 was evaluated for waste oil COCs (VOCs, metals, and PCBs). Detected waste oil constituent concentrations did not exceed RDCLs. SES requested limiting all future sampling to diesel fuel COCs (TPH-DRO, cPAH, naphthalene, and BTEX/MTBE). Investigation details and recommendations for additional soil borings and monitor wells were reported in a "Groundwater Sampling Report" dated 13-May-10.
- On 17-Jun-10, IDEM announced analysis of TPH in groundwater would no longer be required for investigation and monitoring.
- IDEM correspondence dated 26-Jul-10 requested additional investigation to delineate petroleum impacted soil and groundwater. Specifically, IDEM approved the recommended groundwater well locations and reduced sampling scope to include only diesel fuel COCs.
- Final site characterization was conducted on 6-Oct-10. Investigation included three soil borings (GP-12, GP-13, and GP-14 on Figure 3). Soil generally consisted of brown, dry to damp, sand and silt from the near surface to approximately eight feet. Saturated soils were encountered between eight and twelve feet and varied in thickness from six inches to two feet. Field evidence of petroleum impact was noted at GP-12. As such, GP-14 was advanced as a step-out boring. The soil TPH concentration reported for GP-12 (510 mg/kg) exceeded the RDCL (230 mg/kg); however, TPH concentrations reported for the GP-13 (132 mg/kg) and GP-14 (16.8 mg/kg) locations were below the RDCL. Temporary groundwater sampling points were installed at each boring location. Groundwater naphthalene concentrations did not exceed the RDCL. Petroleum impact was delineated to RDCLs in both soil and groundwater subsequent to this investigation. Details were provided in a "Final Site Characterization Report", dated 3-Nov-10.
- Site characterization approval was provided by IDEM in correspondence dated 23-Mar-11.
- A "Corrective Action Plan (CAP)" specifying targeted soil excavation followed by groundwater plume stability monitoring was submitted to IDEM on 8-Jul-11. IDEM approved the CAP in correspondence dated 3-Oct-11.
- Corrective action conducted November 16-18, 2011 included the removal of approximately 758 tons of petroleum-impacted soil from two areas within the site, identified as "Excavation Area 1" and "Excavation Area 2". Soil generally consisted of brown to black silt and sand; however, fill material including animal waste, straw and gravel were encountered in the MW-6 area. Confirmatory sampling results from the excavation areas revealed no evidence of BTEX/MTBE exceeding RDCLs. Naphthalene did not exceed the IDCL at any location. TPH DRO concentrations exceeded the target cleanup goal (IDCLs) along the northeast sidewall of Excavation Area 1 and the north sidewall of Excavation Area 2. Inference based on previous soil testing data indicates approximately 70% of contaminated soils (above IDCLs) have been removed from the site. Groundwater monitor wells MW-1a, MW-2a, MW-3a, and MW-6 were destroyed during excavation. Three replacement wells (MW-3b, MW-9, and MW-6a) were installed on 12-Dec-11

(Figure 4). Details of corrective action implementation were provided to IDEM in a "Corrective Action Plan Implementation (CAPI) Report" dated 16-Jan-12.

- In correspondence dated 15-Mar-12, IDEM denied the CAPI report and requested a Corrective Action Plan Addendum (CAPA) to address remaining contaminated soil. SES submitted a CAPA dated 14-May-12 to address IDEM's concerns. Specifically, SES recommended two additional monitor well installations (MW-10 and MW-11) to evaluate soil leaching potential to groundwater in the area where soil impact (>IDCLs) remained. SES proposed to evaluate groundwater plume stability after eight quarters of monitoring. Closure with an ERC will be pursued if the plume is stable or not expanding; however, if trends indicate an expanding plume, corrective action strategies will be reevaluated.
- In correspondence dated 18-Jul-12, IDEM provided CAPI and CAPA approval.
- In correspondence dated 18-Mar-14, IDEM approved monthly free product removal from MW-9. Monthly product abatement at MW-9 began in March 2014. Product has not been observed at MW-9 since 11-Nov-14.
- No Further Action (NFA) status was requested with the fourth quarter 2014 groundwater monitoring report, based on lines of evidence indicating decreasing contaminant concentrations.
- In correspondence dated 19-Jun-15, IDEM denied NFA and requested additional investigation and remediation to address remaining contamination.
- In response to IDEM's request for additional investigation, SES proposed advancing up to six soil borings outward of MW-11 and analyzing soil within the smear zone to determine the potential of LPH to occur in soil. Details were provided to IDEM in a "Quarterly Report Transmittal and NFA Denial Response" letter dated 8-Sep-15.
- In correspondence dated 20-Nov-15, IDEM approved the work plan to advance up to six soil borings to determine the potential of LPH migration to the Eel River.
- Additional investigation was conducted on 16-Dec-15 and consisted of conducting a geophysical survey to identify underground structures which could contribute to LPH migration, advancing six soil borings outward of MW-11 and MW-8, and analyzing soil samples for cPAHs. Boring locations are identified as GP-14a through GP-19 on Figure 2. Borings GP-14a and GP-16 were positioned west and north of MW-11 and the old clay tile. Borings GP-15 and GP-19 were positioned south and east of MW-11, along an underground water line. Borings GP-17 and GP-18 were positioned north of MW-11, along an underground fuel piping line. cPAH constituents were not detected in soil. Additional details are provided in an "Additional Site Investigation Report" dated 25-Jan-16.
- In correspondence dated 6-Apr-16, IDEM approved monitoring MW-8 for free product on a monthly basis. IDEM recommended sampling oil/sludge observed at MW-8 for PCBs and continuing the quarterly groundwater sampling schedule.

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## 2.0 FREE PRODUCT RECOVERY

LPH was first detected at MW-9 during the first quarter 2012. Monthly LPH removal was approved by IDEM in correspondence dated 18-Mar-14. Detectable product was not observed at MW-9 this quarter, and has not been observed since 11-Nov-14.

LPH was first reported at MW-8 during the fourth quarter 2015. Monthly LPH monitoring was approved by IDEM in correspondence dated 6-Apr-16. Monitoring was conducted on 13-May-16, 8-Jun-16, and 26-Jul-16. Detectable product was observed at MW-8 during the 26-Jul-16 event; field staff noted

approximately 0.01 feet of product which was purged from MW-8 prior to sampling groundwater. The purged product was placed in a 55-gallon drum stored onsite. Historical LPH data is provided in Table 1.

<i>Volumes in gallons</i>	MW-8	MW-9	MW-11
Total Volume of LPH/Water To Date	0.5	12.5	0.25
May 13 ,2016	0.0	0.0	0.0
8-Jun-16	0.0	0.0	0.0
26-Jul-16	0.25	0.0	0.0

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### 3.0 ACTIVE REMEDIATION SYSTEM INFORMATION

A remediation system has not been installed at the site.

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### 4.0 SAMPLING METHOD DESCRIPTION

Groundwater monitoring was conducted on 26-Jul-16 and included measuring depth to water, sample collection, and laboratory analysis for diesel fuel contaminants of concern. A sample from the irrigation well was also collected. The following sections detail monitoring methods and results.

Groundwater sampling was initiated by opening monitor wells and allowing groundwater to equilibrate to atmospheric conditions for approximately thirty minutes. The depth to water was then measured at each monitor well using an electronic water level probe with an accuracy of 0.01 feet. The water level probe was decontaminated with a detergent solution and tap water rinse prior to gauging and between each well measurement.

A hydrocarbon interface probe (IFP) was used to detect the presence of liquid phase hydrocarbon (LPH) at MW-8, MW-9 and MW-11. The IFP measures the depth to LPH and groundwater with an accuracy of 0.01 feet. The IFP was also decontaminated with a detergent solution and tap water rinse between each measurement. Trace LPH (approximately 0.01 feet) was detected at MW-8 this quarter.

Approximately three well volumes were purged prior to sample collection. Purging and sampling was conducted using polyethylene bailers. A new bailer was used at each location. Groundwater was discharged directly from the bailer into two, laboratory-provided, 40-mL glass vials containing hydrochloric acid as a preservative. In addition, three, laboratory-provided, 40-mL, unpreserved, amber glass vials were collected from each well.

A sample was also collected from the irrigation well. Water was allowed to flow from the well for at least two minutes, before the sample was collected from the tap. The sample was identified as “irrigation well” and submitted for analysis.

All samples were labeled, entered into chain of custody management, and transported to Envision Laboratories in Indianapolis, Indiana. Samples were submitted for the following diesel fuel contaminants of concern:

- Benzene, toluene, ethylbenzene, xylenes, and methyl-tertiary-butyl-ether (BTEX/MTBE) using SW 846 Method 8260 and
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) using SW 846 Method 8270SIM.

Quality control samples included a blind duplicate and trip blank. The blind duplicate sample was obtained from MW-9 and labeled “MW-19.” The duplicate was analyzed for BTEX/MTBE and cPAHs. A trip blank consisting of distilled water accompanied the samples throughout collection and transport to the laboratory. The trip blank was analyzed for BTEX/MTBE.

As only approximately 0.01 feet of LPH was detected at MW-8, LPH could not be collected for PCB analysis, as requested by IDEM. “Debris” was noted within groundwater and sampled at MW-8 during LPH monitoring on 13-May-16. PCBs were not detected in the 13-May-16 sample from MW-8.

Depth to groundwater measurements were subtracted from previously established top of casing elevations to determine relative groundwater flow and gradient. The following Table 2 summarizes groundwater gauging and relative elevation data. A figure depicting groundwater sample locations are presented on Figure 4.

Well ID	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Relative Groundwater Elevations (ft)	Free Product Thickness (ft)	Corrected Groundwater Elevations (ft)	Monitoring Well Depth	Monitoring Well Screen Interval
MW-3b	99.61	7.52	92.09	-	-	15.0	5.0-15.0
MW-4	101.41	9.09	92.32	-	-	17.0	7.0-17.0
MW-5	100.91	9.44	91.47	-	-	19.0	9.0-19.0
MW-6a	96.10	4.73	91.37	-	-	14.0	4.0-14.0
MW-7	96.10	3.36	92.74	-	-	14.0	4.0-14.0
MW-8	97.05	6.56	90.49	0.02	90.51	22.0	12.0-22.0
MW-9	96.80	5.20	91.60	-	-	15.0	5.0-15.0
MW-10	96.10	5.24	90.86	-	-	14.0	4.0-14.0
MW-11	96.31	6.83	89.48	-	-	14.0	4.0-14.0
CR-W1	99.52	9.38	90.14	-	-	20.0	10.0-20.0
CR-W2	99.92	8.48	91.44	-	-	24.0	14.0-24.0

## 5.0 DATA DISCUSSION AND RESULTS

Eleven groundwater samples and one irrigation well sample from the on-site irrigation supply well were collected during the July 2016 quarterly groundwater sampling event. Groundwater testing results are summarized in the following table, and are also depicted on Figure 4. Laboratory reports are included in Appendix E.

**Table 3. Current Groundwater Data (July 2016)**  
 Whitley Mobile Homes  
 South Whitley, Whitley County

<i>All results in µg/l</i>	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Ethylbenzene	Indeno(1,2,3-cd)pyrene	Methyl-tert-butyl-ether (MTBE)	Toluene	Xylenes, Total
<i>RISC Residential Default Closure Level</i>	<u>5</u>	<u>1.2</u>	<u>0.2</u>	<u>1.2</u>	<u>12</u>	<u>120</u>	<u>700</u>	<u>1.2</u>	<u>40</u>	<u>1,000</u>	<u>10,000</u>
<i>RISC Industrial Default Closure Level</i>	<u>52</u>	<u>3.9</u>	<u>0.39</u>	<u>3.9</u>	<u>39</u>	<u>390</u>	<u>10,000</u>	<u>3.9</u>	<u>720</u>	<u>8,200</u>	<u>20,000</u>
MW-3b	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-4	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-5	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-6a	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-7	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-8	<5	<b>9.30</b>	<b>7.40</b>	<b>11.1</b>	4.20	10.8	<50	<b>3.30</b>	<40	<50	<100
MW-9	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-10	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-11	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
CR-W1	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
CR-W2	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
Irrigation Well	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
MW-19 duplicate of MW-9	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10
Trip Blank	<5	<0.10	<0.10	<0.10	<0.10	<0.10	<5	<0.022	<5	<5	<10

**Bold** concentration exceeds the RISC RDCL  
Underlined concentration exceeds the RISC IDCL

Groundwater gauging data were used to determine flow direction, which is depicted on Figure 5. The relative groundwater elevation at CR-W1 appears anomalous, and was therefore not used in determining groundwater flow direction. As indicated, groundwater elevations indicate a general flow north, toward the Eel River, which is consistent with previous data.

Quality control is summarized as follows.

- Sample hold times were acceptable.
- Sample temperature upon arrival to the laboratory was acceptable at 3 degrees Celsius.
- Petroleum concentrations were not detected in the trip blank sample.
- Testing results for the duplicate sample (MW-19) and the original sample (MW-9) were both non-detect.
- Laboratory analyst comments are provided on the last page of the laboratory testing report (Appendix E).

Detected cPAH concentrations were reported at MW-8, and are depicted on Figure 4. The benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene concentrations exceeded RDCLs.

## 6.0 CONCLUSIONS

Third quarter groundwater monitoring was conducted on 26-Jul-16. Based on depth to water elevations documented during this quarterly event, groundwater flow is north, toward the Eel River. This groundwater flow direction has been consistent. Historical gauging data are included in Appendix B.

LPH at MW-9 has not been detected since November 2014 and has typically been negligible (<0.1') since September 2013. LPH was reportedly detected at MW-8 during the fourth quarter 2015; trace LPH (0.01 feet) was detected at MW-8 during this sampling event.

Groundwater was collected from all monitor wells and analyzed for BTEX/MTBE and cPAHs. As indicated in Table 3, BTEX/MTBE was not detected at any well location during this quarterly event.

Detected cPAH concentrations were reported at MW-8, and are depicted on Figure 4. The benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene concentrations exceeded RDCLs.

Upon review of historical groundwater elevations and testing results, the following observations have been made.

- Prior to corrective action, LPH was observed within the excavation area at MW-1a, MW-2a, and MW-3a.
- PAH compounds detected at MW-1a, MW-2a, and MW-3a, all included naphthalene. Additional PAHs detected at MW-1a and MW-2a included acenaphthene, anthracene, fluorene, 2-methylnaphthalene, and phenanthrene.
- PAH compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reportedly detected at the up-gradient MW-4 location on 21-Jun-13. These compounds have also been detected at MW-6a, MW-8, CR-W1, and CR-W2. Except for MW-8, LPH has never been associated with these well locations, and the well locations where these compounds have been detected are generally not associated with LPH.
- Naphthalene has been detected at every location where LPH has been observed. Naphthalene was not detected at any well location during this quarterly sampling event.
- Groundwater elevations and LPH thickness appeared related at MW-9: LPH was thickest when groundwater elevations were lowest. LPH was initially detected at MW-9 when the relative elevation was 92.19. LPH was no longer present once elevations rose above 92 feet. Elevations since December 2014 have ranged between 92 and 90 feet without LPH being observed.
- LPH first appeared at MW-8 on 27-Oct-15. The relative elevation was 90.76 feet. Subsequent elevations were higher, and LPH was not detected. The recent elevation was 90.51 feet, which is lower than the elevation when LPH first appeared; however, LPH was barely detected at 0.01 feet. Elevations prior to 27-Oct-15 have been lower without LPH being observed.

Quarterly groundwater monitoring will continue through 4<sup>th</sup> quarter 2016.

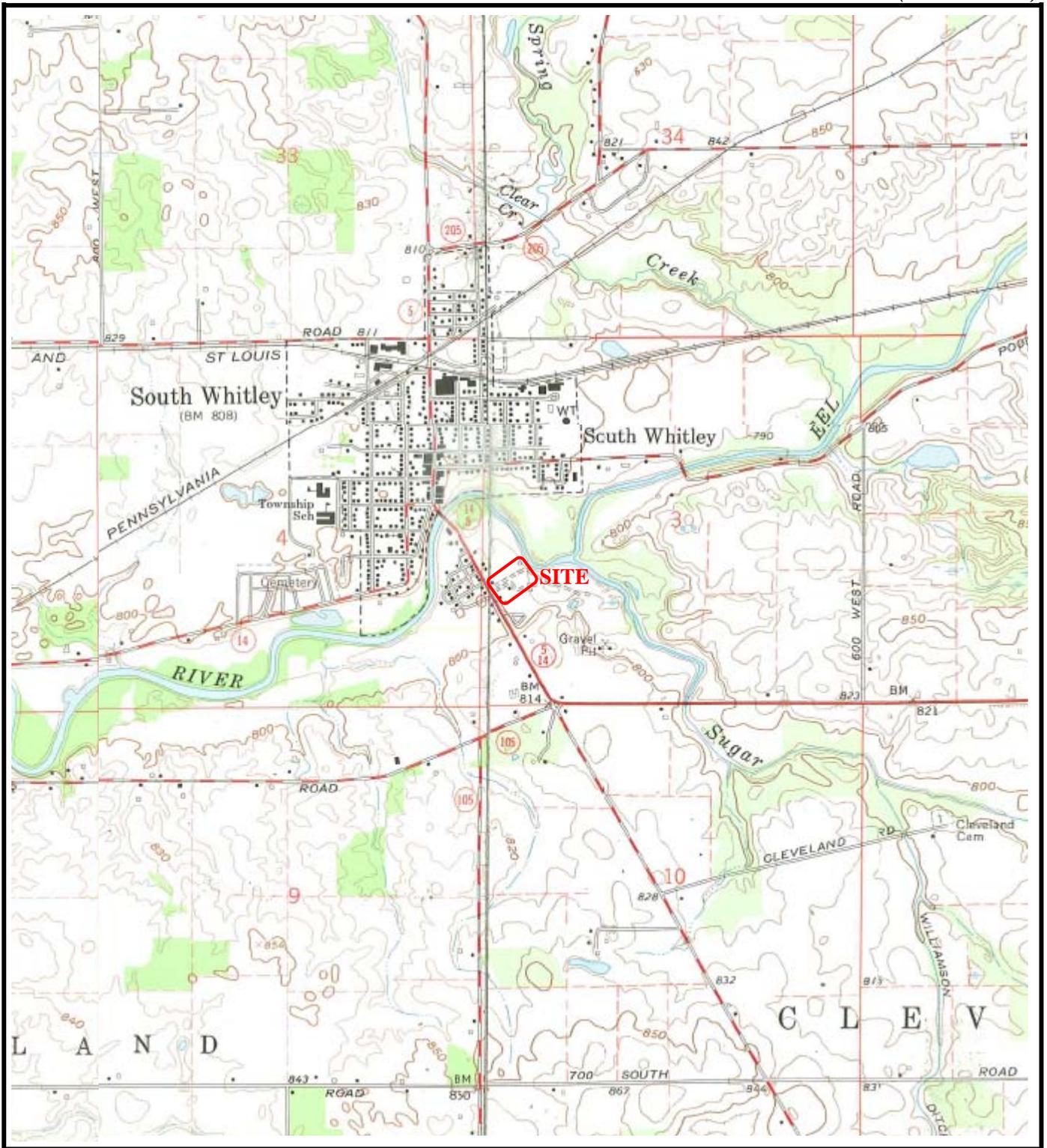
QUARTERLY MONITORING REPORT

**FIGURES**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151

**South Whitley East and West, Indiana 7.5 Minute Quadrangle Maps**  
(Published 1962)



SCALE 1:24000 (1"=2,000')



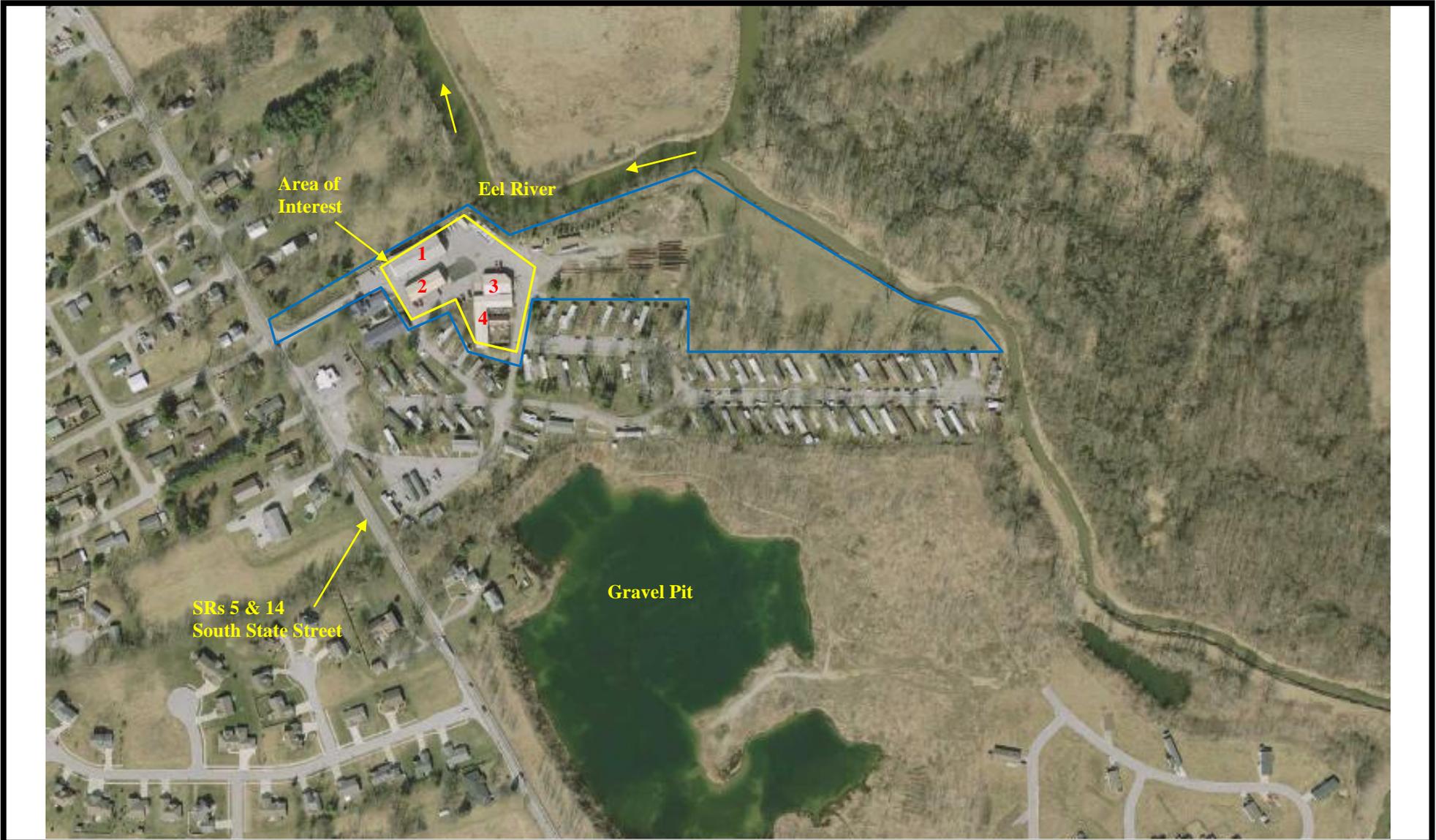
CONTOUR INTERVAL 10 FEET  
Site Boundaries Shown are Approximate

**Topographic Map**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County  
SES Project 2008-197

**Figure 1**



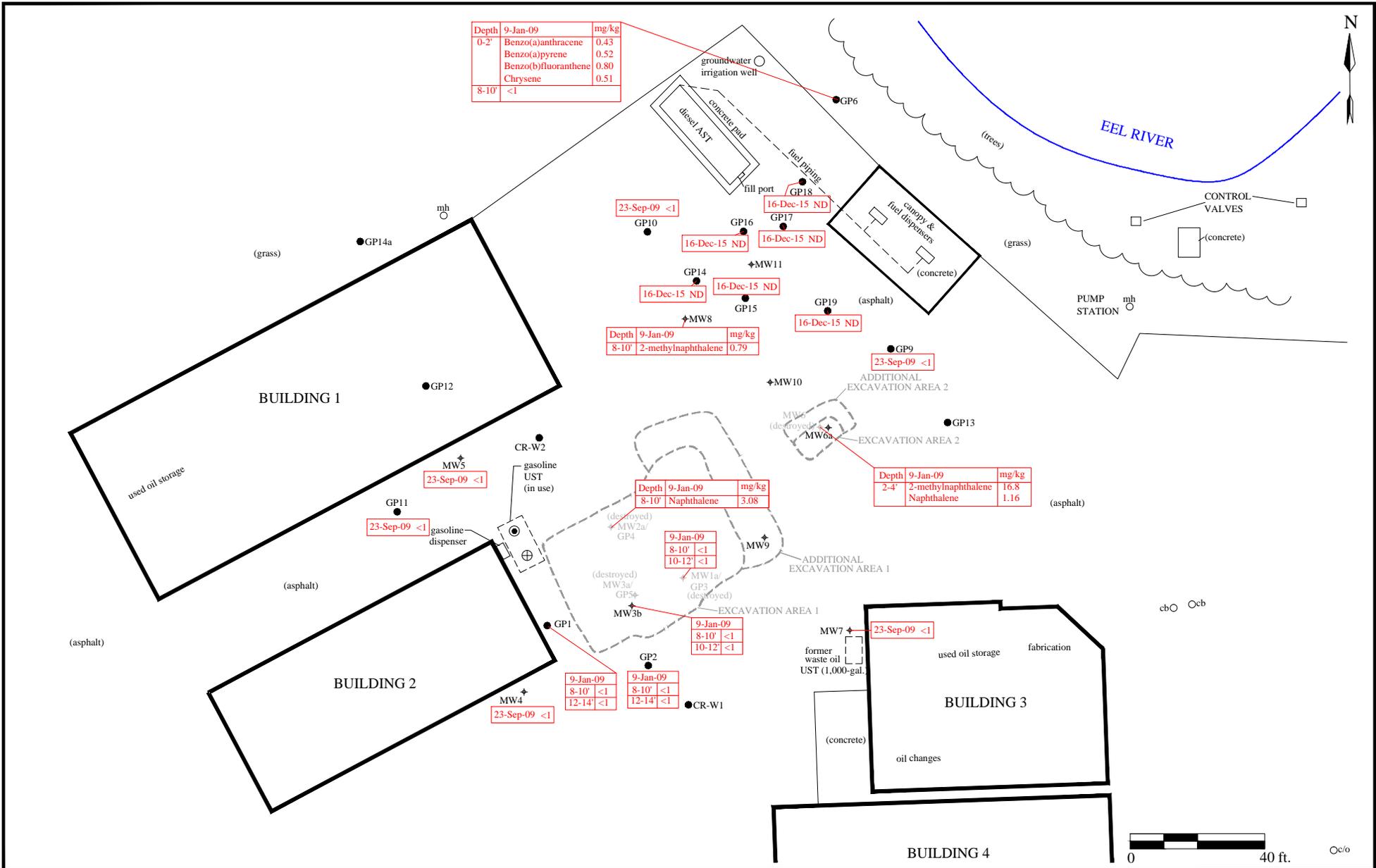


**Figure 2. 2008 Aerial Photograph** Approximate Scale: 1" =

Whitley Mobile Homes  
702 South State Street, South Whitley, Whitley County, Indiana

Source: Schneider Corporation, Whitley County, Indiana GIS  
SES Project Number: 2008-197





**TITLE**  
SITEMAP WITH SOIL BORING LOCATIONS AND SOIL SUMMARY DATA

**LOCATION**  
Whitley Mobile Homes (FID# 9365)  
702 S. State Street  
South Whitley, Indiana

**LEGEND**

- + Monitor Well / Boring Location
- Soil Boring Location
- ⊙ UST Fill Port
- ⊕ UST Tank Monitor
- P Pump
- MW2a/ GP4 (destroyed)
- ✦ Monitor Well destroyed during excavation Nov-11

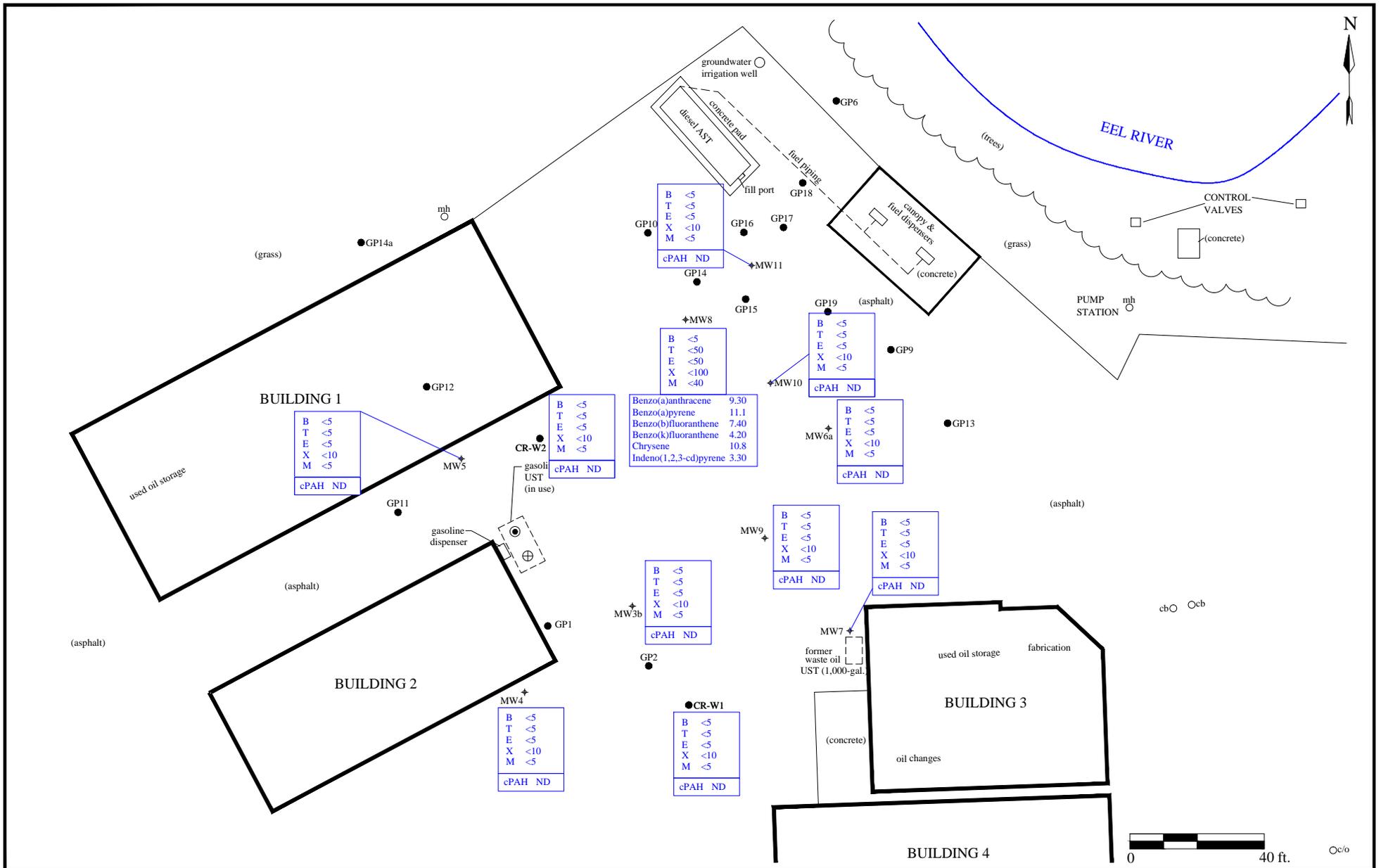
PAH Constituent	RDCL (mg/kg)
2-methylnaphthalene	3.1
Naphthalene	0.7
Benzo(a)anthracene	5
Benzo(a)pyrene	0.5
Benzo(b)fluoranthene	5
Chrysene	500

ND - None Detected

**PROJECT**  
2008-197

SCALE 1" = 40'	DATE 1/4/16
DRAWN bb	CHECKED ew
FILE 2008197	FIGURE 3





**TITLE**  
 SITE MAP WITH MONITORING WELL LOCATIONS AND  
 CURRENT QUARTERLY DATA (26-Jul-16)

**LOCATION**  
 Whitley Mobile Homes (FID# 9365)  
 702 S. State Street  
 South Whitley, Indiana

**LEGEND**

- + Monitor Well / Boring Location
- Soil Boring Location
- ⊙ UST Fill Port
- ⊕ UST Tank Monitor
- P Pump

**Results in mg/l**  
 ND : None Detected

**PROJECT**  
 2008-197

**SCALE**  
 1" = 40'

**DATE**  
 9/1/16

**DRAWN**  
 bb

**CHECKED**  
 ew

**FILE**  
 2008197

**FIGURE**  
 4





QUARTERLY MONITORING REPORT

**APPENDIX A. SYSTEM PERFORMANCE (NOT APPLICABLE)**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151

QUARTERLY MONITORING REPORT

**APPENDIX B. GROUNDWATER DATA SUMMARY TABLES**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151

Table 1. Groundwater Gauging and Well Data Summary

Whitley Mobile Homes  
South Whitley, Whitley County

Well ID	Date	Casing	Groundwater	Elevation	Thickness	Groundwater	Well Depth	Well Screen
MW-3b	September 16, 2014	99.61	7.68	91.93	0.00	91.93	15.0	5.0-15.0
	December 16, 2014		7.47	92.14	0.00	92.14		
	March 24, 2015		7.41	92.20	0.00	92.20		
	July 9, 2015		5.86	93.75	0.00	93.75		
	October 27, 2015		8.61	91.00	0.00	91.00		
	January 14, 2016		6.70	92.91	0.00	92.91		
	April 26, 2016		6.68	92.93	0.00	92.93		
	July 26, 2016		7.52	92.09	0.00	92.09		
MW-4	September 16, 2014	101.41	8.71	92.70	0.00	92.70	17.0	7.0-17.0
	December 16, 2014		8.98	92.43	0.00	92.43		
	March 24, 2015		8.89	92.52	0.00	92.52		
	July 9, 2015		7.65	93.76	0.00	93.76		
	October 27, 2015		9.26	92.15	0.00	92.15		
	January 14, 2016		8.45	92.96	0.00	92.96		
	April 26, 2016		8.49	92.92	0.00	92.92		
	July 26, 2016		9.09	92.32	0.00	92.32		
MW-5	September 16, 2014	100.91	9.46	91.45	0.00	91.45	19.0	9.0-19.0
	December 16, 2014		9.75	91.16	0.00	91.16		
	March 24, 2015		9.25	91.66	0.00	91.66		
	July 9, 2015		7.75	93.16	0.00	93.16		
	October 27, 2015		10.18	90.73	0.00	90.73		
	January 14, 2016		8.65	92.26	0.00	92.26		
	April 26, 2016		8.68	92.23	0.00	92.23		
	July 26, 2016		9.44	91.47	0.00	91.47		
MW-6a	September 16, 2014	96.10	4.82	91.28	0.00	91.28	14.0	4.0-14.0
	December 16, 2014		4.69	91.41	0.00	91.41		
	March 24, 2015		5.48	90.62	0.00	90.62		
	July 9, 2015		3.21	92.89	0.00	92.89		
	October 27, 2015		5.43	90.67	0.00	90.67		
	January 14, 2016		4.06	92.04	0.00	92.04		
	April 26, 2016		4.09	92.01	0.00	92.01		
	July 26, 2016		4.73	91.37	0.00	91.37		
MW-7	September 16, 2014	96.10	3.39	92.71	0.00	92.71	14.0	4.0-14.0
	December 16, 2014		3.68	92.42	0.00	92.42		
	March 24, 2015		2.93	93.17	0.00	93.17		
	July 9, 2015		2.23	93.87	0.00	93.87		
	October 27, 2015		4.23	91.87	0.00	91.87		
	January 14, 2016		3.00	93.10	0.00	93.10		
	April 26, 2016		3.02	93.08	0.00	93.08		
	July 26, 2016		3.36	92.74	0.00	92.74		
MW-8	September 16, 2014	97.05	6.73	90.32	0.00	90.32	22.0	12.0-22.0
	December 16, 2014		6.44	90.61	0.00	90.61		
	March 24, 2015		6.06	90.99	0.00	90.99		
	July 9, 2015		4.11	92.94	0.00	92.94		
	October 27, 2015		7.51	89.54	0.67	90.76		
	January 14, 2016		4.36	92.69	0.00	92.69		
	April 26, 2016		6.00	91.05	0.00	91.05		
	July 26, 2016		6.56	90.49	0.01	90.51		
MW-9	September 16, 2014	96.80	5.39	91.41	0.02	91.43	15.0	5.0-15.0
	December 16, 2014		5.22	91.58	0.00	91.58		
	March 24, 2015		5.03	91.77	0.00	91.77		
	July 9, 2015		4.43	92.37	0.00	92.37		
	October 27, 2015		6.14	90.66	0.00	90.66		
	January 14, 2016		4.31	92.49	0.00	92.49		
	April 26, 2016		4.29	92.51	0.00	92.51		
	July 26, 2016		5.20	91.60	0.00	91.60		
MW-10	September 16, 2014	96.10	5.34	90.76	0.00	90.76	14.0	4.0-14.0
	December 16, 2014		8.32	87.78	0.00	87.78		
	March 24, 2015		5.08	91.02	0.00	91.02		
	July 9, 2015		3.7	92.40	0.00	92.40		
	October 27, 2015		5.95	90.15	0.00	90.15		
	January 14, 2016		4.56	91.54	0.00	91.54		
	April 26, 2016		4.57	91.53	0.00	91.53		
	July 26, 2016		5.24	90.86	0.00	90.86		
MW-11	September 16, 2014	96.31	6.98	89.33	0.00	89.33	14.0	4.0-14.0
	December 16, 2014		6.76	89.55	0.00	89.55		
	March 24, 2015		6.36	89.95	0.00	89.95		
	July 9, 2015		5.58	90.73	0.00	90.73		
	October 27, 2015		7.19	89.12	0.00	89.12		
	January 14, 2016		6.13	90.18	0.00	90.18		
	April 26, 2016		6.23	90.08	0.00	90.08		
	July 26, 2016		6.83	89.48	0.00	89.48		
CR-W1	September 16, 2014	99.52	8.57	90.95	0.00	90.95	20.0	10.0-20.0
	December 16, 2014		7.95	91.57	0.00	91.57		
	March 24, 2015		8.08	91.44	0.00	91.44		
	July 9, 2015		5.26	94.26	0.00	94.26		
	October 27, 2015		8.85	90.67	0.00	90.67		
	January 14, 2016		6.83	92.69	0.00	92.69		
	April 26, 2016		6.72	92.8	0.00	92.8		
	July 26, 2016		9.38	90.14	0.00	90.14		
CR-W2	September 16, 2014	99.92	8.57	91.35	0.00	91.35	24.0	14.0-24.0
	December 16, 2014		8.44	91.48	0.00	91.48		
	March 24, 2015		8.54	91.38	0.00	91.38		
	July 9, 2015		6.87	93.05	0.00	93.05		
	October 27, 2015		9.24	90.68	0.00	90.68		
	January 14, 2016		7.77	92.15	0.00	92.15		
	April 26, 2016		7.72	92.20	0.00	92.20		
	July 26, 2016		8.48	91.44	0.00	91.44		

**Table 2a. Groundwater Data Summary**

Whitley Mobile Homes  
South Whitley, Whitley County

	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
<b>RISC Residential Default Closure Levels</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>10000</b>	<b>40</b>
<b>RISC Industrial Default Closure Levels</b>		<b>52</b>	<b>8200</b>	<b>10000</b>	<b>20000</b>	<b>720</b>
MW-3b	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-4	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-5	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-6a	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-7	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-8	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	Not sampled due to presence of LPH				
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<50	<50	<100	<40
MW-9	September 16, 2014	<5	<5	<5	11.9	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	5.43	<10	<5
MW-10	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
MW-11	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
CR-W1	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
CR-W2	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	<5	<5	<5	<10	<5
	March 24, 2015	<5	<5	<5	<10	<5
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	<5	<5	<5	<10	<5
	January 14, 2016	<5	<5	<5	<10	<5
	July 26, 2016	<5	<5	<5	<10	<5
Irrigation Well	September 16, 2014	<5	<5	<5	<10	<5
	December 16, 2014	Turned off for winter - not sampled				
	March 24, 2015	Turned off for winter - not sampled				
	July 9, 2015	<5	<5	<5	<10	<5
	October 27, 2015	Turned off for winter - not sampled				
	January 14, 2016	Turned off for winter - not sampled				
	July 26, 2016	<5	<5	<5	<10	<5

Table 2b. Groundwater Data Summary

Whitley Mobile Homes  
South Whitley, Whitley County

	Date	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene	Naphthalene
<b>RISC Residential Default Closure Levels</b>		<b>1.2</b>	<b>0.2</b>	<b>1.2</b>	<b>10,000</b>	<b>120</b>	<b>1.2</b>	<b>8.3</b>
<b>RISC Industrial Default Closure Levels</b>		<b>3.9</b>	<b>0.39</b>	<b>3.9</b>	<b>20,000.0</b>	<b>390</b>	<b>3.9</b>	<b>2,000</b>
MW-3b	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-4	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-5	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<b>10.1</b>
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	2.93
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	2.52
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	1.75
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-6a	September 16, 2014	<b>4.67</b>	<b>4.31</b>	<b>4.05</b>	4.13	2.10	<b>2.23</b>	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-7	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-8	September 16, 2014	1.07	<b>0.83</b>	<b>1.21</b>	<0.10	1.72	<0.022	<1.0
	December 16, 2014	0.4	<b>0.56</b>	<0.10	<0.10	0.69	<0.022	<1.0
	March 24, 2015	<0.10	<b>0.45</b>	0.66	0.2	<0.10	<0.022	<1.0
	July 9, 2015	<b>1.28</b>	<b>0.88</b>	<b>1.86</b>	<0.10	1.99	<0.022	<1.0
	October 27, 2015	Not sampled due to presence of LPH						
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-9	September 16, 2014	<b>9.3</b>	<b>7.4</b>	<b>11.1</b>	4.2	10.8	<b>3.3</b>	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<b>23</b>
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<b>19.9</b>
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	1.72
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<b>30.9</b>
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<b>11.1</b>
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	6.49
MW-10	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
MW-11	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	1.9
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
CR-W1	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
CR-W2	September 16, 2014	<0.10	<b>0.42</b>	0.78	<0.10	0.92	<0.022	<1.0
	December 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	March 24, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	1.68
	January 14, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
Irrigation Well	September 16, 2014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	December 16, 2014	Turned off for winter - not sampled						
	March 24, 2015	Turned off for winter - not sampled						
	July 9, 2015	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
	October 27, 2015	Turned off for winter - not sampled						
	January 14, 2016	Turned off for winter - not sampled						
	April 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0
July 26, 2016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.022	<1.0	

Bold indicates concentration exceeds the RISC RDCL  
Underline indicates concentration exceeds the RISC IDCL



QUARTERLY MONITORING REPORT

**APPENDIX C. MISCELLANEOUS DATA SUMMARY TABLES**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151

**Soil TPH Data Summary**  
Whitley Mobile Homes  
South Whitley, Whitley County

Sampling Location	Date	Depth Interval (ft)	TPH-ERO	TPH-DRO
<b>RISC Residential Default Closure Levels</b>			<b>230</b>	<b>230</b>
<b>RISC Industrial Default Closure Levels</b>			<b>2,300</b>	<b>2,300</b>
GP-1	9-Jan-09	8-10	331*	nt
		12-14	134	nt
GP-2		8-10	24	nt
		12-14	87	nt
GP-3/MW-1a		8-10	800*	nt
		10-12	93	nt
GP-4/MW-2a		8-10	4,490*	nt
		8-10	3,390*	nt
GP-5/MW-3a		10-12	30	nt
		0-2	28	nt
GP-6	8-10	44	nt	
	10-12	nt	<11	
MW-4	23-Sep-09	14-16	nt	29
		10-12	nt	395*
MW-5	23-Sep-09	14-16	nt	31
		2-4	22,600*	nt
MW-6	23-Sep-09	12-14	47	nt
		4-6	127	nt
MW-7	23-Sep-09	12-14	29	nt
		4-6	nt	1,400*
MW-8	23-Sep-09	8-10	nt	71
		16-18	nt	37
GP-9	23-Sep-09	4-6	nt	26
GP-10	23-Sep-09	4-6	nt	<11
GP-11	23-Sep-09	10-12	nt	37
GP-12	6-Oct-10	8-10	nt	510*
GP-13	6-Oct-10	4-6	nt	132
GP-14	6-Oct-10	8-10	nt	16.8

**Soil BTEX/MTBE Data Summary**  
Whitley Mobile Homes  
South Whitley, Whitley County

Sampling Location	Date	Depth Interval (ft)	Benzene	Toluene	Ethylbenzene	Xylenes, mixed	MTBE
<b>RISC Residential Default Closure Levels</b>			<b>0.034</b>	<b>12</b>	<b>13</b>	<b>170</b>	<b>0.18</b>
<b>RISC Industrial Default Closure Levels</b>			<b>0.35</b>	<b>96</b>	<b>160</b>	<b>170</b>	<b>3.2</b>
GP-1	9-Jan-09	8-10	<0.005	<0.005	<0.005	<0.011	<0.005
		12-14	<0.005	<0.005	<0.005	<0.011	<0.005
GP-2		8-10	<0.005	<0.005	<0.005	<0.011	<0.005
		12-14	<0.005	<0.005	<0.005	<0.011	<0.005
GP-3/MW-1a		8-10	<0.006	<0.006	<0.006	<0.011	<0.006
		10-12	<0.005	<0.005	<0.005	<0.011	<0.005
GP-4/MW-2a		8-10	<0.005	<0.005	<0.005	<0.011	<0.005
		16-18	<0.005	<0.005	<0.005	<0.011	<0.005
GP-5/MW-3a		8-10	<0.006	<0.006	<0.006	<0.011	<0.006
		10-12	<0.006	<0.006	<0.006	<0.011	<0.006
GP-6	9-Jan-09	0-2	<0.006	<0.006	<0.006	<0.012	<0.006
		8-10	<0.006	<0.006	<0.006	<0.011	<0.006
MW-4	23-Sep-09	10-12	<0.005	<0.005	<0.005	<0.011	<0.005
		14-16	<0.005	<0.005	<0.005	<0.011	<0.005
MW-5	23-Sep-09	10-12	<0.006	<0.006	<0.006	<0.012	<0.006
		14-16	<0.005	<0.005	<0.005	<0.011	<0.005
MW-6	23-Sep-09	2-4	<0.007	<0.007	<0.007	<0.014	<0.007
		12-14	<0.006	<0.006	<0.006	<0.011	<0.006
MW-7	23-Sep-09	4-6	<0.005	<0.005	<0.005	<0.011	<0.005
		12-14	<0.006	<0.006	<0.006	<0.012	<0.006
GP-9	23-Sep-09	4-6	<0.006	<0.006	<0.006	<0.013	<0.006
		10-12	<0.005	<0.005	<0.005	<0.011	<0.005

**Soil Metals & PCBs Data Summary**  
Whitley Mobile Homes  
South Whitley, Whitley County

Sampling Location	Date	Depth Interval (ft)	Barium	Cadmium	Chromium (total)	Lead	Mercury	Nickel	Zinc	PCBs
<b>RISC Residential Default Closure Levels</b>			<b>1600</b>	<b>7.5</b>	<b>10000</b>	<b>81</b>	<b>2.1</b>	<b>950</b>	<b>10000</b>	--
<b>RISC Industrial Default Closure Levels</b>			<b>10,000</b>	<b>77</b>	<b>10,000</b>	<b>230</b>	<b>32</b>	<b>2,700</b>	<b>10,000</b>	=
MW-7	23-Sep-09	4-6	45	<2	8.8	5.5	<1	<2	43	none detected
		12-14	6.4	<2	<2	<2	<1	<2	10	none detected

**Soil PAH Data Summary**  
Whitley Mobile Homes  
South Whitley, Whitley County

Sampling Location	Date	Depth Interval (ft)	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Fluorene	2-Methylanthracene	Naphthalene	Phenanthrene
<b>RISC Residential Default Closure Levels</b>			<b>130</b>	<b>2000</b>	<b>5</b>	<b>0.5</b>	<b>5</b>	<b>500</b>	<b>170</b>	<b>3.1</b>	<b>0.7</b>	<b>13</b>
<b>RISC Industrial Default Closure Levels</b>			<b>1,800</b>	<b>2000</b>	<b>15</b>	<b>1.5</b>	<b>15</b>	<b>1500</b>	<b>2000</b>	<b>42</b>	<b>170</b>	<b>170</b>
GP-1	9-Jan-09	8-10	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36
		12-14	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	nd	nd	<0.35	<0.35
GP-2		8-10	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36
		12-14	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36
GP-3/MW-1a		8-10	nd	nd	<0.38	<0.38	<0.38	<0.38	nd	nd	<0.38	<0.38
		10-12	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36
GP-4/MW-2a		8-10	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	3.08*	<0.36
		8-10	nd	nd	<0.38	<0.38	<0.38	<0.38	nd	nd	<0.38	<0.38
GP-5/MW-3a		10-12	nd	nd	<0.37	<0.37	<0.37	<0.37	nd	nd	<0.37	<0.37
		0-2	nd	nd	0.43	0.52*	0.80	0.51	nd	nd	<0.040	0.51
GP-6	8-10	nd	nd	<0.38	<0.38	<0.38	<0.38	nd	nd	<0.38	<0.38	
	10-12	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36	
MW-4	23-Sep-09	14-16	nd	nd	<0.35	<0.35	<0.35	<0.35	nd	nd	<0.35	<0.35
		10-12	nd	nd	<0.39	<0.39	<0.39	<0.39	nd	nd	<0.39	<0.39
MW-5	23-Sep-09	14-16	nd	nd	<0.36	<0.36	<0.36	<0.36	nd	nd	<0.36	<0.36
		2-4	0.48	1.03	<0.47	<0.47	<0.47	0.95	16.8	1.16	2.05	
MW-6	23-Sep-09	12-14	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
		4-6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
MW-7	23-Sep-09	12-14	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
		4-6	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	0.79	<0.38	<0.38	
MW-8	23-Sep-09	8-10	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.35
		16-18	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.33
GP-9	23-Sep-09	4-6	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.38	
GP-10	23-Sep-09	4-6	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.33	
GP-11	23-Sep-09	10-12	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.32	
GP-14	16-Dec-15	5-6	nt	nt	<0.36	<0.074	<0.36	<0.36	nt	nt	<0.074	nt
GP-15	16-Dec-15	6-8	nt	nt	<0.35	<0.072	<0.35	<0.35	nt	nt	<0.072	nt
GP-16	16-Dec-15	4-5	nt	nt	<0.37	<0.075	<0.37	<0.37	nt	nt	<0.075	nt
GP-17	16-Dec-15	6-8	nt	nt	<0.35	<0.071	<0.35	<0.35	nt	nt	<0.071	nt
GP-18	16-Dec-15	5-6	nt	nt	<0.37	<0.074	<0.37	<0.37	nt	nt	<0.074	nt
GP-19	16-Dec-15	6-7	nt	nt	<0.38	<0.076	<0.38	<0.38	nt	nt	<0.076	nt

nd - not detected nt - not tested

**Bold, concentrations exceed RISC RDCLs**

Underline, concentration exceeds RISC IDCL

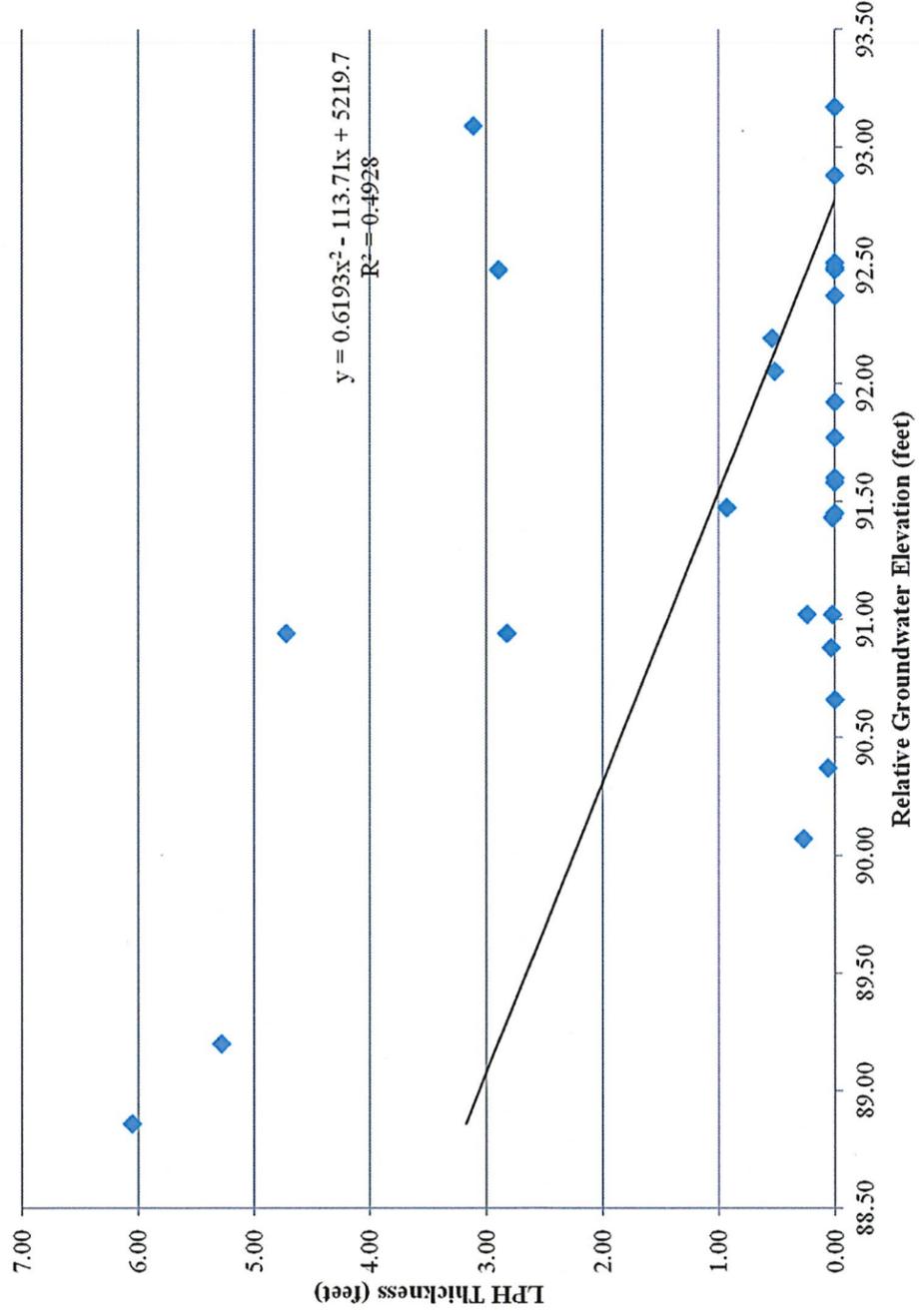
QUARTERLY MONITORING REPORT

**APPENDIX D. TREND DATA**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151

### MW-9 Water Levels vs Product Thickness



QUARTERLY MONITORING REPORT

**APPENDIX E. FIELD AND LAB DATA**

Whitley Mobile Homes  
702 South State Street  
South Whitley, Whitley County, Indiana

FID #9365  
LUST #1997-03-151



**ENVision Laboratories, Inc.**  
1439 Sadlier Circle West Drive  
Indianapolis, IN 46239  
Tel: 317.351.8632  
Fax: 317.351.8639  
www.envisionlaboratories.com

Ms. Elizabeth Wallace  
SES Environmental  
3807 Transportation Drive  
Fort Wayne, IN 46818

August 4, 2016

ENVision Project Number: 2016-2128  
Client Project Name: Whitley Mobile Homes #2008-197

Dear Ms. Wallace,

Please find the attached analytical report for the samples received July 27, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "Cheryl A. Crum".

Cheryl A. Crum

Director of Project Management  
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert:005





**ENVision Laboratories, Inc.**  
 1439 Sadlier Circle West Drive  
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 Fax: 317.351.8639  
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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 080116VW

**Client Sample ID:** CR-W1      **Sample Collection Date/Time:** 7/26/16 14:04  
**Envision Sample Number:** 16-15143      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	89%		
4-bromofluorobenzene (surrogate)	79%		
Analysis Date/Time:	8-1-16/14:40		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** CR-W1      **Sample Collection Date/Time:** 7/26/16 14:04  
**Envision Sample Number:** 16-15143      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	63%		
2-Fluorobiphenyl (surrogate)	65%		
p-Terphenyl-d14 (surrogate)	68%		
Analysis Date/Time:	8-3-16/05:12		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



ENVision Laboratories, Inc.  
 1439 Sadlier Circle West Drive  
 Indianapolis, IN 46239  
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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** CR-W2      **Sample Collection Date/Time:** 7/26/16 13:51  
**Envision Sample Number:** 16-15144      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	121%		
1,2-Dichloroethane-d4 (surrogate)	109%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	7-30-16/02:07		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** CR-W2      **Sample Collection Date/Time:** 7/26/16 13:51  
**Envision Sample Number:** 16-15144      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	68%		
2-Fluorobiphenyl (surrogate)	73%		
p-Terphenyl-d14 (surrogate)	71%		
Analysis Date/Time:	8-3-16/05:37		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-3B      **Sample Collection Date/Time:** 7/26/16 15:06  
**Envision Sample Number:** 16-15145      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	123%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	7-30-16/02:36		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-3B      **Sample Collection Date/Time:** 7/26/16 15:06  
**Envision Sample Number:** 16-15145      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	57%		
2-Fluorobiphenyl (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	60%		
Analysis Date/Time:	8-3-16/06:02		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-4      **Sample Collection Date/Time:** 7/26/16 14:06  
**Envision Sample Number:** 16-15146      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	119%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	86%		
Analysis Date/Time:	7-30-16/03:06		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-4      **Sample Collection Date/Time:** 7/26/16 14:06  
**Envision Sample Number:** 16-15146      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	52%		
2-Fluorobiphenyl (surrogate)	59%		
p-Terphenyl-d14 (surrogate)	59%		
Analysis Date/Time:	8-3-16/06:27		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-5      **Sample Collection Date/Time:** 7/26/16 13:52  
**Envision Sample Number:** 16-15147      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	122%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	7-30-16/03:35		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-5      **Sample Collection Date/Time:** 7/26/16 13:52  
**Envision Sample Number:** 16-15147      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	56%		
2-Fluorobiphenyl (surrogate)	68%		
p-Terphenyl-d14 (surrogate)	68%		
Analysis Date/Time:	8-3-16/06:52		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-6A      **Sample Collection Date/Time:** 7/26/16 15:00  
**Envision Sample Number:** 16-15148      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	118%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	106%		
Analysis Date/Time:	7-30-16/04:05		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-6A      **Sample Collection Date/Time:** 7/26/16 15:00  
**Envision Sample Number:** 16-15148      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	56%		
2-Fluorobiphenyl (surrogate)	66%		
p-Terphenyl-d14 (surrogate)	51%		
Analysis Date/Time:	8-3-16/07:17		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-7      **Sample Collection Date/Time:** 7/26/16 14:49  
**Envision Sample Number:** 16-15149      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	117%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	7-30-16/04:34		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-7      **Sample Collection Date/Time:** 7/26/16 14:49  
**Envision Sample Number:** 16-15149      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	54%		
2-Fluorobiphenyl (surrogate)	54%		
p-Terphenyl-d14 (surrogate)	56%		
Analysis Date/Time:	8-3-16/07:43		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-8      **Sample Collection Date/Time:** 7/26/16 14:25  
**Envision Sample Number:** 16-15150      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	50	1,2,3
Toluene	< 50	50	2,3
Ethylbenzene	< 50	50	2,3
Xylene, M&P	< 50	50	2,3
Xylene, Ortho	< 50	50	2,3
Xylenes, Total	< 100	100	2,3
Methyl-tert-butyl-ether	< 40	50	1,2,3
Dibromofluoromethane (surrogate)	121%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	99%		
Analysis Date/Time:	7-30-16/05:04		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-8      **Sample Collection Date/Time:** 7/26/16 14:25  
**Envision Sample Number:** 16-15150      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	9.30	1.0	2
Benzo(a)pyrene	7.40	1.0	2
Benzo(b)fluoranthene	11.1	1.0	2
Benzo(k)fluoranthene	4.20	1.0	2
Chrysene	10.8	1.0	2
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	3.30	0.22	2
Naphthalene	< 1.0	1.0	

Nitrobenzene-d5 (surrogate) 72%  
 2-Fluorobiphenyl (surrogate) 101%  
 p-Terphenyl-d14 (surrogate) 101%  
**Analysis Date/Time:** 8-3-16/08:08  
**Analyst Initials:** ajg  
**Date Extracted:** 8/2/2016  
**Initial Sample Volume:** 40 mL  
**Final Volume:** 2.0 mL



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-9      **Sample Collection Date/Time:** 7/26/16 14:50  
**Envision Sample Number:** 16-15151      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	117%		
1,2-Dichloroethane-d4 (surrogate)	117%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	7-30-16/05:34		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-9      **Sample Collection Date/Time:** 7/26/16 14:50  
**Envision Sample Number:** 16-15151      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	81%		
2-Fluorobiphenyl (surrogate)	85%		
p-Terphenyl-d14 (surrogate)	102%		
Analysis Date/Time:	8-3-16/08:33		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-10      **Sample Collection Date/Time:** 7/26/16 15:01  
**Envision Sample Number:** 16-15152      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	109%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	7-30-16/06:33		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-10      **Sample Collection Date/Time:** 7/26/16 15:01  
**Envision Sample Number:** 16-15152      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	64%		
2-Fluorobiphenyl (surrogate)	71%		
p-Terphenyl-d14 (surrogate)	56%		
Analysis Date/Time:	8-3-16/08:58		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-11      **Sample Collection Date/Time:** 7/26/16 14:20  
**Envision Sample Number:** 16-15153      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	105%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	7-30-16/07:02		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-11      **Sample Collection Date/Time:** 7/26/16 14:20  
**Envision Sample Number:** 16-15153      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	58%		
2-Fluorobiphenyl (surrogate)	64%		
p-Terphenyl-d14 (surrogate)	57%		
Analysis Date/Time:	8-3-16/09:23		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** MW-19      **Sample Collection Date/Time:** 7/26/16 15:10  
**Envision Sample Number:** 16-15154      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	120%		
1,2-Dichloroethane-d4 (surrogate)	120%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	7-30-16/07:32		
Analyst Initials	tjg		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** MW-19      **Sample Collection Date/Time:** 7/26/16 15:10  
**Envision Sample Number:** 16-15154      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	56%		
2-Fluorobiphenyl (surrogate)	79%		
p-Terphenyl-d14 (surrogate)	92%		
Analysis Date/Time:	8-3-16/09:48		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** IRRIGATION WELL **Sample Collection Date/Time:** 7/26/16 13:11  
**Envision Sample Number:** 16-15155 **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	7-30-16/08:31		
Analyst Initials	tjg		



Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128

**Analytical Method:** EPA 8270SIM  
**Prep Method:** EPA 3511  
**Analytical Batch:** 080216PW

**Client Sample ID:** IRRIGATION WELL  
**Envision Sample Number:** 16-15155  
**Sample Matrix:** water  
**Sample Collection Date/Time:** 7/26/16 13:11  
**Sample Received Date/Time:** 7/27/16 12:20

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.029	0.029	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d5 (surrogate)	58%		
2-Fluorobiphenyl (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	63%		
Analysis Date/Time:	8-3-16/10:14		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		



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Analytical Report

**Client Name:** SES  
**Project ID:** WHITLEY MOBILE HOMES #2008-197  
**Client Project Manager:** ELIZABETH WALLACE  
**ENVision Project Number:** 2016-2128  
**Analytical Method:** EPA 8260  
**Prep Method:** EPA 5030B  
**Analytical Batch:** 072916VW

**Client Sample ID:** TRIP BLANK      **Sample Collection Date/Time:** 7/26/16 9:00  
**Envision Sample Number:** 16-15156      **Sample Received Date/Time:** 7/27/16 12:20  
**Sample Matrix:** water

<u>Compounds</u>	<u>Sample Results (ug/L)</u>	<u>Reporting Limit (ug/L)</u>	<u>Flags</u>
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	7-30-16/09:01		
Analyst Initials	tjg		



**EPA 8260 Quality Control Data**

**ENVision Batch Number:** 072916VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	84%		
Analysis Date/Time:	7-30-16/00:08		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Methyl-tert-butyl-ether	58.7	50	51.7	117%	103%	12.7	
Benzene	55.8	50	53.9	112%	108%	3.5	
Toluene	52	50	51.5	104%	103%	1.0	
Ethylbenzene	53.2	50	52.5	106%	105%	1.3	
Xylene, M&P	111	100	111	111%	111%	0.0	
Xylene, Ortho	52.2	50	52.5	104%	105%	0.6	
Dibromofluoromethane (surrogate)	111%		107%				
1,2-Dichloroethane-d4 (surrogate)	111%		111%				
Toluene-d8 (surrogate)	99%		98%				
4-bromofluorobenzene (surrogate)	98%		99%				
Analysis Date/Time:	7-29-16/22:40		7-29-16/23:09				
Analyst Initials	tjg		tjg				



**EPA 8260 Quality Control Data**

**ENVision Batch Number:** 080116VW

<u>Method Blank (MB):</u>	<u>MB Results (ug/L)</u>	<u>Rep Lim (ug/L)</u>	<u>Flag</u>
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, Ortho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	100%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	8-1-16/12:12		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ug/L)</u>	<u>LCS/LCSD Conc. (ug/L)</u>	<u>LCSD Result (ug/L)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>% D</u>	<u>Flag</u>
Methyl-tert-butyl-ether	40.4	50	39.2	81%	78%	3.0	
Benzene	50.7	50	52.6	101%	105%	3.7	
Toluene	48.7	50	53.1	97%	106%	8.6	
Ethylbenzene	48.5	50	52.2	97%	104%	7.3	
Xylene, M&P	99.8	100	108	100%	108%	7.9	
Xylene, Ortho	51	50	54.7	102%	109%	7.0	
Dibromofluoromethane (surrogate)	91%		90%				
1,2-Dichloroethane-d4 (surrogate)	96%		99%				
Toluene-d8 (surrogate)	99%		102%				
4-bromofluorobenzene (surrogate)	97%		98%				
Analysis Date/Time:	8-1-16/10:43		8-1-16/11:12				
Analyst Initials	tjg		tjg				



**EPA 8270SIM Quality Control Data**

**ENVision Batch Number:** 080216PW2

Method Blank (MB):	Method Blank Result (ug/L)	Reporting Limit (ug/L)	Flag
Benzo(a)anthracene	< 0.10	0.10	
Benzo(a)pyrene	< 0.10	0.10	
Benzo(b)fluoranthene	< 0.10	0.10	
Benzo(k)fluoranthene	< 0.10	0.10	
Chrysene	< 0.10	0.10	
Dibenzo(a,h)anthracene	< 0.10	0.10	
Indeno(1,2,3-cd)pyrene	< 0.022	0.022	
Naphthalene	< 1.0	1.0	
Nitrobenzene-d14 (surrogate)	72%		
2-Fluorobiphenyl (surrogate)	72%		
p-Terphenyl-d14 (surrogate)	69%		
Analysis Date/Time:	8-3-16/03:56		
Analyst Initials	ajg		
Date Extracted	8/2/2016		
Initial Sample Volume	40 mL		
Final Volume	2.0 mL		

LCS	LCS Results (ug/L)	LCS/LCS Conc. (ug/L)	LCS Recovery	Flag
Benzo(a)anthracene	1.02	2.0	51%	
Benzo(a)pyrene	1.18	2.0	59%	
Benzo(b)fluoranthene	1.26	2.0	63%	
Benzo(k)fluoranthene	1.29	2.0	65%	
Chrysene	1.04	2.0	52%	
Dibenzo(a,h)anthracene	1.05	2.0	53%	
Indeno(1,2,3-cd)pyrene	1.07	2.0	54%	
Naphthalene	1.29	2.0	65%	
Nitrobenzene-d14(surrogate)	61%			
2-Fluorobiphenyl (surrogate)	63%			
p-Terphenyl-d14 (surrogate)	97%			
Analysis Date/Time:	8-3-16/04:21			
Analyst Initials:	ajg			
Date Extracted:	8/2/2016			
Initial Sample Volume:	40 mL			
Final Volume:	2.0 mL			



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<u>Flag Number</u>	<u>Comments</u>
N	Analyte is not included in our NELAC accreditation.
1	Reported value is below the reporting limit but above the MDL. DAE 8-2-16
2	Reported value is from a 10x dilution. DAE/AJG 8-2-16
3	Due to the physical properties of the analyzed sample, a lower dilution was not possible. DAE 8-2-16



# CHAIN OF CUSTODY RECORD

ENVISSION Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: <b>SES</b>	Invoice Address: <b>SAME</b>
Report Address: <b>3807 Transportation Dr. Ft. Wayne, IN 46818</b>	Project Name: <b>Wentz Mobile Homes #2008-197</b>
Report To: <b>Elizbeth Wallace</b>	Lab Contact: <b>Cheryl Crum</b>
Phone: <b>260-497-7645</b>	Sampled by: <b>SFBG</b>
Fax: <b>260-497-7646</b>	P.O. Number: <b>580227</b>
Desired TAT: <b>1-2 days</b> (Please Circle One) <b>3-6 days</b> <b>Std. (Z bus. days)</b>	QA/QC Required: (circle if applicable) <b>Level III</b> <b>Level IV</b>

**Sample Integrity:**

Cooler Temp: 3 °C  
 (Circle)

Samples on Ice?  Yes  No  
 Samples Intact?  Yes  No  
 Custody Seal:  Yes  No  
 ENVISSION provided bottles:  Yes  No  
 VOC vials free of head-space?  Yes  No  
 pH checked?  Yes  No  
 Method 5035 collection used?  Yes  No  
 5035 samples received within 48 hr of Collection?  Yes  No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	REQUESTED PARAMETERS						ENVISSION Sample ID		
					HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Other	None			
CR-W1	7-26-16	2:04	G	W	2						3	16-15143	
CR-W2		1:57										1	16-15144
MW-3b		3:06											16-15145
MW-4		2:06											16-15146
MW-5		1:52											16-15147
MW-6a		3:00											16-15148
MW-7		2:49											16-15149
MW-8		2:35											16-15150
MW-9		2:50											16-15151
MW-10		3:01											16-15152
MW-11		2:20											16-15153

BTEX/MTBE  
CPH/MTBE

Comments:

Relinquished by: <i>Harold Stowell</i>	Date: 7/27/16	Time: 12:20
Received by: <i>[Signature]</i>	Date: 7/27/16	Time: 12:20



MW-15 @ 3:38 Jammed, odor & steam, abated 2.5" to 10 inches

MW-17 @ 3:41 Jam, buried, odor & steam, abated 1" product 1/4 gal bucket H<sub>2</sub>O

~~Abated~~

left @ 3:54  
Arrive @ 4:45  
T-10 miles: 20

# 5-13-16 Whitney Mobile product ck # 2008-197

left @ 12:52  
Arrive @ 1:29

Weather: Sunny, 60°  
Personnel: SF

Scope: IFA MW-9, MW-8, MW-11

purged MW-8 to check for steam or bridge & sample for PCBs if present

opened wells @ 1:40

SWL

MW-8 4.71  
MW-9 3.65  
MW-11 4.92

MW-8 pump on @ 1:50

- black flake, no bridge. This is ash from the incinerator. Sampled for PCBs @ 2:00

gray, buried, with steam purged. 2.5 gal  
- the dark stuff looks like oil mulch or top soil - similar texture

East side of SR-1 there is an inlet pipe coming from the Soudoto. No visible shear on East side of SR-1 at Creek

Storm drain to 710 North on E side of SR-1 is dry PID # of further north @ Northwood Dr intersection

Storm drain @ Northwood Dr. intersection no product, SWL 6.05, PID #

west side ~~check~~ <sup>to SR-1 station</sup> is gas, had 4.88 pd w/petro odor SWL was 6.05, no product

Storm drain to directly west of station, no product, SWL 4.94 PID 45.3

6/8/16 2008-197 Whitney Mobile

Left @ 10:36  
Arrive @ 11:20  
Resummed: SF  
Weather: Sunny, lower 70's  
Scope: ITP MW-8, MW-9, MW-11, check for Sledge @ MW-8

SWL

MW-8 5.80

MW-9 @ 11:34

MW-11 6.10

MW-8

- pump on @ 11:34, pump off @ 11:40  
- no sludge, some debris as last time  
- purged 25 gal

Left @ 11:45  
Total miles =

7/26/16 S. Whitley Mobile AL 2008797

Trip Blank @ 9:00

Left @ 11:11

Arrive @ 12:05

Personnel: SF/BB

Weather: sunny, 80's

Open well @ 12:15

SWSL

- MW-5 9.99
- CR-102 8.98
- MW-8 6.56
- MW-11 6.83
- MW-10 5.24
- MW-2a 9.73
- MW-7 3.36
- CR-101 9.38
- MW-2b 7.52
- MW-4 9.09
- MW-9 5.20

Irrigation well sampled @ 1:11  
clear, no %s, ten water for analysis

Sample Notes

MW-5 @ 1:52 clear, turbid, no %s  
p 4.25

CR-102 @ 1:51 clear, turbid, sheen, no odor, p 1 gal into bottom

MW-4 @ 2:06 clear, turbid, no %s  
p 4.25 gal

CR-101 @ 2:04 clear, turbid, no %s  
p 1 gal

MW-11 @ 2:08 ~~2:08~~ gray, turbid, sheen, no odor, p 4.25 gal

MW-8 @ 2:25 gray, turbid, clear sheen, abated 1/8" produced to 2.5 gal  
NO IEP available

MW-7 @ 2:47 clear, turbid, no %s  
p 4.25 gal

MW-9 @ 2:50 gray turbid, odor, sheen, no produced, p 0.5 gal Duplicated "MW-9"

7/27/16 S. Whitley Mobile Ames 2006-17

MW-6a @ 3:00 brown liquid,  
no %s p. 25 gal

MW-10 @ 3:01 tan, cloudy, odor, no  
sheen, purged 5 gal

MW-36 @ 3:06 tan, cloudy, no %s  
p. 5 gal

left @ 3:10  
ARR @ 3:48

left @ 10:50  
ARR @ 1:23  
scope: Check MW-8 for product & sample  
for PCBs if possible

<sup>sub</sup>  
MW-8 6:54/6:56  
↳ insufficient volume to sample  
for PCBs

- LD value is low due to lack of air  
could be product has been submerged  
when valves was opened

- left @ 1:35  
- ARR @  
Total miles: 66