TETRA TECH

April 30, 2020

Mr. Todd Davis
Site Assessment Manager
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: **Site Inspection Report**
Tanglefoot Lane Site, Bettendorf, Scott County, Iowa
U.S. EPA Region 7 START 5, [redacted]
Task Monitor: Todd Davis, Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting the enclosed Site Inspection report regarding the Tanglefoot Lane site in Bettendorf, Iowa. If you have any questions or comments regarding this submittal, please contact the Project Manager at (816) 412-1784. A Hazard Ranking System scoring memorandum for the site will be submitted under separate cover.

Sincerely,

[redacted]
START Project Manager

[redacted]
START Program Manager

Enclosures

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SITE INSPECTION REPORT

TANGLEFOOT LANE SITE
BETTENDORF, IOWA

EPA SEMS ID: IAN000703123

Superfund Technical Assessment and Response Team (START) 5 Contract
(b) (4) [redacted], (b) (4) [redacted]

Prepared For:

U.S. Environmental Protection Agency
Region 7
Superfund Division
11201 Renner Boulevard
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April 30, 2020

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA), Region 7, under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), tasked Tetra Tech, Inc., (Tetra Tech) to conduct a Site Inspection (SI) at the Tanglefoot Lane site (the site) in Bettendorf, Scott County, Iowa (see Figure 1, Appendix A). Work proceeded under Superfund Technical Assessment and Response Team (START) 4 (b) (4) [redacted], (b) (4) [redacted], and reporting was completed under START 5 (b) (4) [redacted], (b) (4) [redacted]. The site has been entered into the Superfund Enterprise Management System (SEMS), with site identification number IAN000703123 (EPA 2020a).

The site formerly hosted an unpermitted landfill from the 1950s to 1970s, and presence of contaminated materials on the site has been documented (EnviroNET, Inc. [EnviroNET] 2012). The site was identified as a potential hazardous waste site and entered into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) (later replaced by the Superfund Enterprise Management System [SEMS]), as Identification Number IAN000703123 (EPA 2020a). Tetrachloroethene (PCE) and associated breakdown products have been detected in environmental samples collected at and near the site during past investigations.

Purposes of this SI were to delineate extent of contamination and to assess inhalation threats posed to occupants of structures near and downgradient of the site. Although START completed a Preliminary Assessment (PA) in 2016 (Tetra Tech 2016), the PA was completed prior to addition of vapor intrusion (VI) evaluation to the Hazard Ranking System (HRS) in 2017. SI activities accorded with EPA's *Guidance for Performing Site Inspections under CERCLA* (EPA 1992), and the *Technical Support Document for U.S. EPA's Final Rule: Addition of a Subsurface Intrusion Component to the Hazard Ranking System* (EPA 2016). For this task, evaluation occurred to assess the relative threat associated with release of hazardous substances at the site, based on information obtained during the SI and previous investigations.

The HRS has been adopted by EPA to help prioritize hazardous waste sites for further evaluation and eventual remedial action. The HRS is the primary method of determining a site's eligibility for inclusion on the National Priorities List (NPL). The NPL identifies facilities at which EPA may conduct remedial response actions. Results from evaluation of the site according to HRS scoring criteria are discussed in a separate report.

2.0 SITE BACKGROUND INFORMATION

This section provides the site location and description, discusses geology/hydrogeology and hydrology at and near the site, recounts the operational history of the site, presents waste characteristics, and summarizes previous investigations and regulatory involvement pertaining to the site.

2.1 LOCATION AND DESCRIPTION

The site is within the City of Bettendorf in Scott County, Iowa, off Tanglefoot Lane between Devils Glen Road and Middle Road. Geographical coordinates at the site are 41.560218 degrees north latitude and 90.474599 degrees west longitude (see Appendix A, Figure 1). The site consists of two contiguous parcels, 841523010 and 841433011, totaling approximately 18 acres. Records from the Scott County Assessor's Office indicate that Parcel 841523010 consists of acreage north and south of Tanglefoot Lane; however, this SI is limited to the acreage south of Tanglefoot Lane where former landfilling of municipal and industrial wastes occurred (see Appendix A, Figure 2).

Most acreage at the site is timber and grassland, with steep topographical slopes to the south toward an unnamed creek that discharges to a neighboring residential pond. Adjacent property to the north is developed for residential use; adjacent properties to the east and west are residential/commercial; adjacent property across the creek to the south is improved with a church, parking lots, and residential use.

2.2 GEOLOGY AND HYDROGEOLOGY

The site is in the Mississippi River Valley of the Great Plains Region of the Central Interior of the United States. The region is covered with glacial sediments that have eroded to form a landscape consisting of uplands bisected by rivers, creeks, and streams that discharge into the Mississippi River. Site-specific soil information provided in the United States Department of Agriculture Soil Survey of Scott County, Iowa, indicates that the site is mostly characterized by Downs Silt Loam, Lindley Loam, and Nodaway Silt Loam. The Lindley Loam and Downs Silt Loam range from 5-25% slopes (moderately sloping to steep), and from moderately eroded to severely eroded. They are well-drained soils with permeabilities ranging from moderately slow (Lindley Loam) to moderate (Downs Silt Loam). Runoff from these soils ranges from medium to very rapid. The Nodaway Silt Loam has 0-2% slopes, and is a moderately well-drained soil found in areas of recent deposition. Permeability of the Nodaway soil is moderate, it has a slow runoff rate, and its seasonal high water table is at depths of 3-5 feet.

Observed geology in the vicinity of the former landfill during prior investigations included surface fill materials, silty clay loam and sandy silt in thin seams, dense dry stiff to fat clays of glacial origin (various

thicknesses), sand lenses, and sandy saturated substrate at depths of 12 to 15 feet. The fill area included degraded materials mixed with sand and clay, with glass, plastic, and debris mixed in at various intervals. Depth to groundwater varies from approximately 40 feet below grade near the roadway to approximately 1 foot below grade near the southern site boundary.

Observed geology in the vicinity of a former oil pit (see Appendix A, Figure 2) included surface debris in a limited area, silty clay loam and loess, and well-rounded oxidized sand. Thin, dry, discontinuous sand lenses were observed above a depth of 20 feet (EnviroNET 2013).

Direction of groundwater flow is to the south. Groundwater flows toward the un-named intermittent creek along the southern boundary of the site. Depth of groundwater at the southern end of the site is consistent with creek levels. The creek is an unnamed tributary of Crow Creek, which flows southeast toward the Mississippi River (Tetra Tech 2016).

The main source of municipal drinking water for the City of Bettendorf is the Mississippi River (American Water 2015). Locations of the active municipal wells within 4 miles of the site, their depths, and distances from the site are listed in Table 1 below. One well classified as municipal belongs to the City of Bettendorf, Iowa, and the other two wells classified as municipal are associated with Mid American Energy (Iowa Department of Natural Resources [IDNR] 2019). Information regarding registered private wells within 4 miles of the site is in Appendix B.

TABLE 1

BETTENDORF MUNICIPAL WELLS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

Well Number	Owner	Latitude (°N)	Longitude (°W)	Elevation (feet amsl)	Well Depth (feet bgs)	Aquifer	Approximate Distance from Site (miles)
3	City of Bettendorf	41.525997	90.505981	576	2,122	Not Specified	2.74
53421	Mid American Energy	41.546639	90.445969	570	430	Silurian	1.64
53072	Mid American Energy	41.546639	90.445969	570	427	Silurian	1.64

Notes:

amsl Above mean sea level
bgs Below ground surface
°N Degrees north
°W Degrees west

2.3 HYDROLOGY

The property slopes considerably to the south. Groundwater flows to the south toward the un-named intermittent creek along the southern boundary of the site. This unnamed tributary flows east through a manmade pond on the east adjacent property, and then southeast into Crow Creek and ultimately the Mississippi River. A sanitary sewer pipe routed to the west of the landfill area and then south toward the municipal collector system was installed under Tanglefoot Road in 2013 (EnviroNET 2013).

2.4 OPERATIONAL HISTORY AND WASTE CHARACTERISTICS

This section describes operational history at the site, and discusses waste characteristics associated with the site.

2.4.1 Operational History

The site is currently owned by sisters (b) (6) [redacted]). They reported that their father, Harry Meinert, now deceased, owned the property consisting of a farmhouse with extensive acreage since their childhood. Table 2 summarizes previous uses of the site:

TABLE 2

SUMMARY OF OPERATIONAL HISTORY
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

Date or Date Range	Operational Use
1937-1950s	The site was a homestead, used for farming; significant portion was timber with a large ravine.
1950s-1960s	Current owners of the site reported that during this time, Harry Meinert began collecting and storing/disposing of municipal and possibly industrial waste materials.
1960s-1970s	Waste collection and on-site disposal of materials occurred.
1970s-1980s	Storage/disposal stopped at some time in the late 1960s or early 1970s. Vegetation reclaimed the landfill area.
1980s-1990s	The site was passive.
1990s-2000s	The site was passive.
2000s-2011	The site was passive.
2012	The site was used to store fill material for the Grayhawk construction project on the north side of Tanglefoot Lane.

Source: EnviroNET Inc. (EnviroNET) 2012.

Nearby Facilities

Adjacent property to the north is developed for residential use; adjacent properties to the east and west are residential/commercial; adjacent property across the creek to the south is improved with a church, parking lots, and residential use.

2.4.2 Waste Characteristics

Based on previous investigations, PCE and trichloroethene (TCE) are the primary contaminants of concern at the site.

PCE

PCE is a nonflammable, colorless liquid with an ether-like odor that has been typically used in dry cleaning operations and as a degreaser for metal parts (Agency for Toxic Substances and Disease Registry [ATSDR] 2019a). PCE is a volatile liquid that is denser than water and tends to be found at greater depths with increasing distance from a source area if released to the environment. The primary target for toxicity due to prolonged exposure to PCE is the central nervous system, and PCE may cause vision changes and neurobehavioral effects.

PCE was introduced as a dry cleaning solvent in 1934, and by 1948 had replaced carbon tetrachloride (CCl_4) as the major chlorinated dry cleaning solvent used in the United States (petroleum solvents still dominated overall). By 1962, dry cleaning operations accounted for 90 percent of PCE used in the United States. At one time, PCE had been mixed with grain protectants and certain liquid grain fumigants, but this was no longer approved by 1980 (Meister Publishing Company 1980). In the environment, PCE degrades to TCE via dechlorination.

TCE

TCE is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste (ATSDR 2019b). It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, lubricants, paints, paint removers, and pesticides. Previously, it was used in textile processing and dry cleaning operations until this was discontinued in the 1950s. TCE is a volatile liquid that is denser than water and is typically found at greater depths with increased time and/or distance from a source area if released to the environment. TCE is reasonably anticipated to be a human carcinogen. Drinking or inhaling small amounts of TCE for long periods may cause liver and kidney damage, impaired immune system function, and impaired fetal development in pregnant women (ATSDR 2019b). The *cis*- and *trans*- isomers of 1,2-dichloroethene (DCE) and 1,1-DCE are common degradation products from TCE. These daughter products eventually degrade to vinyl chloride.

2.5 PREVIOUS PHASE I AND PHASE II INVESTIGATIONS

The following are descriptions of previous Phase I and Phase II investigations at the Tanglefoot Lane site:

2.5.1 EnviroNET – Phase I Environmental Site Assessment

EnviroNET conducted a Phase I Environmental Site Assessment (ESA) of the site in 2012. The ESA revealed that the site had previously served as a landfill for municipal waste, and possibly industrial waste. In addition, the investigation revealed that Mr. Harry Meinert had been in the "oil and chip" business, which included storage of waste oil for application to country roads for dust control. During the site inspection, EnviroNET observed presence of waste on the ground surface among weeds and trees (glass, plastic, metal containers including 55-gallon drums, scrap metal, and limited construction debris). Recognized environmental conditions (REC) identified during the Phase I ESA included:

- Unpermitted storage of municipal waste on the property
- Possible presence of hazardous/contaminated waste in containers, in soil, in leachate, and/or in groundwater
- Former storage of waste oil on the property in clay pits
- Presence of leachate drainage pipe extending from the fill area and draining downhill.

2.5.2 EnviroNET – Phase II Environmental Investigation

EnviroNET conducted a Phase II ESA in 2012/2013. Part of the Phase II ESA involved efforts to confirm or eliminate RECs identified during the Phase I ESA. During the Phase II ESA, contamination detected in soil and groundwater indicated significant breakdown of solvents. However, analytical results from soil and groundwater samples indicated that most of the contamination—including PCE, TCE, and polychlorinated biphenyls (PCB)—had remained with the waste or in leachate within the waste. EnviroNET concluded that these contaminants would remain there, leaching slowly over time until removal of the waste. EnviroNET did not assess the un-named creek inside the southern property line during the Phase II ESA.

2.6 REGULATORY INVOLVEMENT

A summary of site involvement and investigations by EPA, including a summary of previous sampling and analytical results, follows:

2.6.1 Preliminary Assessment

A PA proceeded in response to discovery of contaminants in soil and groundwater at the site, primarily PCE, PCBs, and TCE (Tetra Tech 2016). Field activities associated with the PA occurred in September 2015, in accordance with an approved Quality Assurance Project Plan (QAPP). Sample locations were selected based on site knowledge and previous Phase II investigation results to determine impacts on soils from previous operations. By use of direct-push technology (DPT), soil borings were advanced and sampled at six locations. Subsurface soil samples were collected from each boring within the two depth intervals exhibiting the highest volatile organic compound (VOC) concentrations based on photoionization detector (PID) readings, or where staining was visually apparent. Groundwater samples were collected from temporary wells at four of the six locations. Six soil-gas samples collocated with DPT soil/groundwater sample locations were collected, along with an ambient air sample. Three surface water and four sediment samples were also collected as part of PA sampling activities.

2.6.2 Summary of Preliminary Assessment Sampling Results

This section discusses analytical results from soil, groundwater, soil-gas, surface water, and sediment samples collected during the PA.

<u>Soil Sampling</u>

During the 2016 PA, subsurface soil samples were collected from six DPT borings. Twelve samples were collected (two from each boring) within the two depth intervals of each boring exhibiting highest VOC concentrations based on PID readings or visually apparent staining. If no indications of contamination were present, soil samples were collected within the depth interval of 2 to 4 feet below ground surface (bgs) and from immediately above the water table. If no groundwater was encountered, the second sample was collected at 16 feet bgs.

Two samples were found to contain concentrations of TCE, *cis*-1,2-DCE, and vinyl chloride (VC) exceeding their respective Superfund Chemical Data Matrix (SCDM) benchmarks. Estimated PCE concentrations ranged from 26 to 960 micrograms per kilogram (µg/kg); estimated TCE concentrations ranged from 50 to 52,000 µg/kg; and estimated vinyl chloride concentrations ranged from 3,000 to

35,000 µg/kg. Concentrations of the metals cobalt and thallium, the semivolatile organic compound (SVOC) bis(2-ethylhexyl)phthalate, and PCB Aroclor 1254 were also detected at concentrations exceeding EPA SCDM benchmarks. Additionally, analytical results indicated elevated concentrations of total petroleum hydrocarbons (TPH) (diesel-range organics [DRO], gasoline-range organics [GRO], and oil-range organics [ORO]) in multiple samples collected within the landfill area (Tetra Tech 2016).

Groundwater Sampling

Five groundwater samples, including one field duplicate, were collected from four temporary wells at the site. START attempted to collect groundwater samples at all six DPT boring locations; however, groundwater was not encountered at two locations.

Analytical results from DPT groundwater sampling indicated detections of 32 different substances. Among these detections and exceeding EPA SCDM benchmarks were concentrations of the metals arsenic (total and dissolved), chromium, cobalt (total and dissolved), and lead; and the VOCs 1,1-dichloroethane, 1,1-DCE, *cis*-1,2-DCE, TCE, and VC. Estimated TCE concentrations ranged from 0.72 to 540 micrograms per liter (µg/L). Analytical results also indicated significant concentrations of TPH GRO in multiple samples collected within the landfill area. Overall, samples collected within the landfill area contained higher concentrations of contaminants than did samples collected within other areas at the site (Tetra Tech 2016).

Soil-Gas Sampling

For the PA, six soil-gas samples and an ambient air sample were collected. Soil-gas samples were collocated with DPT soil/groundwater samples. The ambient air sample was collected slightly upgradient of the site.

Analytical results from DPT soil-gas and ambient air sampling indicated detections of 26 VOCs. Among detections in soil-gas samples, concentrations of 14 VOCs including PCE/TCE and their breakdown products exceeded EPA SCDM benchmarks. In the ambient air sample, concentrations of five VOCs exceeded EPA SCDM benchmarks. Overall, samples collected within the landfill and oil pit areas contained concentrations of contaminants higher than in samples collected within other areas (Tetra Tech 2016).

Surface Water

Three surface water samples were collected from the un-named intermittent creek that flows along the southern boundary of the site. No analyte concentration exceeded an EPA SCDM drinking water benchmark.

Sediment

Five sediment samples, including one field duplicate, were collected from the top 6 inches of sediment in the un-named intermittent creek. EPA has not established hazardous substance benchmarks for the sediment pathway. Therefore, none of the detections exceeded an EPA SCDM benchmark.

3.0 SITE INSPECTION ACTIVITIES

SI field activities involved collections of soil-gas, groundwater, surface soil, surface water, sediment, indoor air, ambient air, sub-slab vapor, and private well groundwater samples during October 3-7, 2016; March 12-22, 2018; and August 21-23, 2018. General objectives of the SI were to delineate extents of contamination, and to assess inhalation threats posed to occupants of structures near and downgradient of the site. START members (b) (4) [redacted] performed SI sampling activities. EPA Region 7 Project Manager (PM) Melinda Luetke and Yvonne Smith were also on site during a portion of the SI sampling. Photographic documentation of field activities is in Appendix C. Field activities were also documented in a site logbook and field sheets (see Appendices D and E, respectively).

3.1 SOIL-GAS SAMPLING

On October 4-7, 2016, 13 soil-gas samples were collected (DPT-1 through -11, -13, and -15). Soil-gas samples were collocated with DPT groundwater sample locations, except where groundwater was too shallow (see Appendix A, Figure 3). One soil-gas sample was collected upgradient of the site (north) at DPT-1 to represent background conditions. Three soil-gas locations (DPT-2, -3, and -4) were sampled along the street on the north edge of the site. Four locations (DPT-5, -6, -7, and -8) were sampled downgradient of the site to the southeast along Middle Road adjacent to a residential area. Four locations (DPT-9, -10, -11, and-13) were south of the site boundary (downgradient and south of the creek). One soil-gas sample location (DPT-15) was in the former oil pit. No soil-gas samples were collected at DPT-12, -14, -16, and -17 due to encounters with shallow groundwater. Seagull Environmental Technologies, Inc. (Seagull) conducted Geoprobe operation, under contract to Tetra Tech.

At each location, by use of a DPT rig, steel rods were advanced to about 4 to 5 feet bgs, and then retracted about 6 inches to create a void space to allow collection of soil-gas vapors. The soil-gas samples were collected through the steel rods via disposable polyethylene tubing connected to the bottom of the rod string and an evacuated Summa canister on the ground surface. By use of a vacuum pump, air in the tubing was evacuated prior to connection of the tubing to the Summa canister. After connection of the Summa canister to the tubing, a valve on the Summa canister was opened to begin sample collection. The Summa canister remained attached to the polyethylene tubing until the vacuum gauge indicated approximately 5 to 7 pounds per square inch (psi) remaining in the canister. Collection time depended on the soil type encountered during DPT activities (tighter soils, such as clays, take longer to sample).

All samples were analyzed for VOCs. After completion of soil-gas sampling, all DPT boreholes were plugged with bentonite from bottom of hole to ground surface. Table 3 below summarizes soil-gas sampling locations and associated data.

TABLE 3

DPT SOIL-GAS SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Location ID	EPA Sample ID	Date Sampled	Time Sampled	Sample Depth Interval (feet bgs)	Latitude (degrees north)	Longitude (degrees west)
DPT-1 [a]	7219-1	10/4/2016	14:45	4-5	41.563328	90.477241
DPT-2	7219-2	10/5/2016	16:20	4-5	41.560696	90.478347
DPT-3	7219-3	10/5/2016	07:25	4-5	41.560674	90.476527
DPT-4	7219-4	10/5/2016	08:45	4-5	41.560558	90.472568
DPT-5	7219-5	10/5/2016	11:50	4-5	41.559808	90.468729
DPT-6	7219-6	10/5/2016	13:40	4-5	41.558520	90.469924
DPT-7	7219-7	10/5/2016	15:25	4-5	41.557662	90.971726
DPT-8	7219-8	10/5/2016	17:00	4-5	41.556152	90.474811
DPT-9	7219-9	10/5/2016	17:52	4-5	41.558680	90.478590
DPT-10	7219-10	10/6/2016	08:40	4-5	41.558698	90.476837
DPT-11	7219-11	10/6/2016	10:35	4-5	41.559093	90.476312
DPT-12	NS	10/6/2016	NS	NS	41.558629	90.476449
DPT-13	7219-12	10/6/2016	13:42	4-5	41.558502	90.475398
DPT-14	NS	10/6/2016	NS	NS	41.559867	90.472516
DPT-15	7219-13	10/7/2016	08:00	4-5	41.560485	90.473593
DPT-16	NS	10/7/2016	NS	NS	41.560156	90.476438
DPT-17	NS	10/7/2016	NS	NS	41.560315	90.476408
Ambient Air*	7219-18	10/7/16	16:45	NA	NA	NA

Notes:

[a] Background location.
* No DPT involved in collection of ambient air sample.

bgs	Below ground surface	ID	Identification
DPT	Direct-push technology	NA	Not applicable
EPA	U.S. Environmental Protection Agency	NS	Not sampled

3.2 DPT GROUNDWATER SAMPLING

During October 4-7, 2016, groundwater samples were collected at 11 temporary wells (DPT-2 through -6, -9, -10, -14 through -17). Sampling locations were generally collocated with soil gas sample locations, except where groundwater was not encountered. Three wells (DPT-2, -3, and -4) were placed along the street on the north edge of the site. Two wells (DPT-5 and -6) were downgradient of the site to the southeast along Middle Road next to a residential area. Three wells (DPT-9, -10, and -14) were south of the site boundary (downgradient and south of the creek). Three wells were on site—one well (DPT-15) was in the former oil pit and two wells (DPT-16 and -17) were in the estimated former landfill area

(see Appendix A, Figure 3). No groundwater was encountered at the upgradient location (DPT-1) placed to represent background conditions, or at DPT-7, -8, -11, -12, and -13; therefore groundwater samples were not collected at these locations. Seagull conducted Geoprobe operation, under contract to Tetra Tech.

At most temporary well locations, a 4-foot-long, stainless steel slotted screen encased in an outer sleeve was pushed to the desired sampling depth (between approximately 16 and 44 feet bgs across the study area). This sleeve surrounding the screen was then pulled up to expose the screen and to allow formation water to enter the screen and pipe string. Polyethylene tubing was inserted into the pipe string, and groundwater samples were collected by use of a pump or check valve placed at the base of the tubing.

Groundwater samples from most well locations were analyzed for VOCs, TPH, SVOCs, Target Analyte List (TAL) metals (total and dissolved), pesticides, PCBs, and herbicides. Because of limited groundwater production, the list of analytes was reduced for samples collected at DPT-2 (VOCs were the only analytes), DPT-3 and -5 (VOCs and SVOCs were analytes), and DPT-9 (VOCs, TPH, SVOCs, and pesticides were analytes). START collected groundwater samples, labeled them, and placed them in a cooler maintained at or below a temperature of 4 degrees Celsius (°C). Following groundwater sampling at each location, the temporary well was removed, and the open borehole was filled with bentonite (granular or chips). Table 4 below summarizes groundwater sampling locations and associated data.

TABLE 4

DPT GROUNDWATER SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Location ID	EPA Sample ID	Date Sampled	Time Sampled	Sample Depth Interval (feet bgs)	Latitude (degrees north)	Longitude (degrees west)
DPT-1 [a]	NS	10/4/2016	NS	NS	41.563328	90.477241
DPT-2	7219-201	10/5/2016	17:50	34-38	41.560696	90.478347
DPT-3	7219-202	10/5/2016	08:00	40-44	41.560674	90.476527
DPT-4	7219-203	10/5/2016	09:20	32-36	41.560558	90.472568
DPT-5	7219-204	10/5/2016	12:50	28-32	41.559808	90.468729
DPT-6	7219-205	10/5/2016	14:30	36-40	41.558520	90.469924
DPT-7	NS	10/5/2016	NS	NS	41.557662	90.971726
DPT-8	NS	10/5/2016	NS	NS	41.556152	90.474811
DPT-9	7219-206	10/5/2016	07:30	36-40	41.558680	90.478590
DPT-10	7219-207	10/6/2016	09:20	36-40	41.558698	90.476837
DPT-11	NS	10/6/2016	NS	NS	41.559093	90.476312
DPT-12	NS	10/6/2016	NS	NS	41.558629	90.476449
DPT-13	NS	10/6/2016	NS	NS	41.558502	90.475398
DPT-14	7219-210	10/6/2016	15:50	28-32	41.559867	90.472516
DPT-15	7219-213	10/7/2016	09:00	40-44	41.560485	90.473593
DPT-16	7219-214	10/7/2016	10:30	16-20	41.560156	90.476438
DPT-17	7219-215	10/7/2016	11:20	16-20	41.560315	90.476408
Rinsate Blank	7219-216	10/7/2016	12:18	NA	NA	NA
Trip Blank	7219-225 FB	NA	NA	NA	NA	NA

Notes:

[a] Background location

bgs	Below ground surface	ID	Identification
DPT	Direct-push technology	NA	Not applicable
EPA	U.S. Environmental Protection Agency	NS	Not sampled

3.3 SURFACE WATER AND SEDIMENT SAMPLING

On October 6, 2016, four collocated surface water and sediment samples were collected from the creek on the southern portion of the site to determine impacts of contamination on surface water/sediment upgradient (west) and downgradient (east) of the site (see Appendix A, Figure 3).

Surface Water Sampling

Samples were analyzed for VOCs, TPH, SVOCs, TAL metals (total and dissolved), pesticides, PCBs, and herbicides. Table 5 below summarizes surface water sample locations and associated data.

TABLE 5

SURFACE WATER SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Location ID	EPA Sample ID	Date Sampled	Time Sampled	Latitude (degrees north)	Longitude (degrees west)
SWS-01	7219-208	10/6/2016	12:45	41.559592	90.469404
SWS-03	7219-209	10/6/2016	15:30	41.559678	90.470531
SWS-02	7219-211	10/6/2016	16:30	41.559678	90.470531
SWS-04	7219-212	10/7/2016	08:10	41.560274	90.483205

Notes:

EPA U.S. Environmental Protection Agency
ID Identification

Sediment Sampling

Sediment samples were collected from the top 6 inches of sediment by use of hand-held, disposable, stainless-steel spoons. Grab samples collected for VOCs and TPH-purgeables (GRO) analysis were placed in two 40-milliliter glass vials each. The remaining sediment was homogenized in a disposable container, and then transferred to three 8-ounce jars. These jars were submitted for SVOCs, TAL metals, TPH-extractables (DRO and ORO), pesticides, PCBs, and herbicides analyses. Table 6 below summarizes sediment sample locations and associated data.

TABLE 6

SEDIMENT SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Location ID	EPA Sample ID	Date Sampled	Time Sampled	Latitude (degrees north)	Longitude (degrees west)
SWS-01	7219-101	10/6/2016	13:00	41.559592	90.469404
SWS-03	7219-102	10/6/2016	15:40	41.559678	90.470531
SWS-02	7219-103	10/6/2016	16:40	41.559678	90.470531
SWS-04	7219-104	10/7/2016	08:20	41.560274	90.483205

Notes:

EPA U.S. Environmental Protection Agency
ID Identification

3.4 SURFACE SOIL SAMPLING

On October 7, 2016, seven surface soil samples were collected on site to determine impacts on surface soils from previous operations (Appendix A, Figure 3). Surface soil samples were collected within the top 6 inches of soil by use of a hand-held shovel. One soil sample was collected from the former oil pit (SS-1). Three soil samples were collected from the estimated former landfill area (SS-2, -3, and -4). Three soil samples were collected along the creek at the south boundary of the site (SS-5, -6, and -7).

At each sampling location, a 30- by 30-foot sampling grid with nine cells (each 10 by 10 feet) was established, with one aliquot collected from each of the nine cells. The nine aliquots were placed in a disposable container for homogenization to form a composite sample, and were transferred to three 8-ounce jars. The homogenized soil samples were submitted for SVOCs, TAL metals, TPH-extractables (DRO and ORO), pesticides, PCBs, and herbicides analyses. Table 7 below summarizes surface soil sample locations and associated data.

TABLE 7

SURFACE SOIL SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Location ID	EPA Sample ID	Date Sampled	Time Sampled	Latitude (degrees north)	Longitude (degrees west)
SS-1	7219-105	10/7/2016	10:00	41.560455	90.473476
SS-2	7219-106	10/7/2016	11:15	41.560315	90.476404
SS-3	7219-107	10/7/2016	11:32	41.560114	90.476566
SS-4	7219-108	10/7/2016	11:56	41.559951	90.476416
SS-5	7219-109	10/7/2016	14:50	41.559275	90.476210
SS-6	7219-110	10/7/2016	15:23	41.559306	90.475130
SS-7	7219-111	10/7/2016	15:52	41.559346	90.474125

Notes:

EPA U.S. Environmental Protection Agency
ID Identification

3.5 INDOOR AIR AND AMBIENT AIR SAMPLING

On March 19-22 and August 21-23, 2018, START collected 28 indoor air samples from 13 residences surrounding the site. Properties sampled for indoor air were primarily residential structures downgradient (south and east) of the site. A residence to the northeast and a commercial property (event venue) directly east of the site were also sampled. In addition, six ambient air samples were collected at three locations upwind of and within areas where indoor air samples were collected (three per sampling event) to assess airborne levels of contaminants of concern that could impact concentrations of analytes in indoor air samples (Appendix A, Figure 4).

Six-liter Summa® canisters were fitted with flow regulating devices to enable collection of indoor air and ambient air samples continuously over a 24-hour period. On a field sheet for each sample, pertinent data were recorded—including analyses to be performed, exact sample locations, canister and regulator identification numbers, and start/stop times and canister vacuum readings (see Appendix E). All air samples were submitted to the EPA Region 7 laboratory in Kansas City, Kansas, for VOC analysis. Table 8 below summarizes indoor air and ambient air samples collected during the SI.

TABLE 8

INDOOR AIR AND AMBIENT AIR SAMPLE SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Sample Number	Address	Location in Residence	Sample Type	Start		End	
				Date	Time	Date	Time
7782-2	(b) (6) [redacted]	Living room	Indoor Air	3/19/18	15:15	3/20/18	14:40
7782-3	(b) (6) [redacted].	Basement sitting room	Indoor Air	3/19/18	15:50	3/20/18	15:20
7782-4	(b) (6) [redacted].	Basement	Indoor Air	3/20/18	08:26	3/21/18	08:02
7782-7	(b) (6) [redacted]	Pavilion storage closet	Indoor Air	3/20/18	08:39	3/21/18	07:50
7782-10	(b) (6) [redacted]	Living room	Indoor Air	3/20/18	09:22	3/21/18	08:39
7782-12	(b) (6) [redacted]	Living room	Indoor Air	3/20/18	10:19	3/21/18	09:26
7782-14	(b) (6) [redacted]	Living room	Indoor Air	3/20/18	10:47	3/21/18	09:40
7782-15 [a]	(b) (6) [redacted]	Basement recreational room	Indoor Air [a]	3/20/18	12:13	3/21/18	11:32
7782-17	(b) (6) [redacted].	Living room	Indoor Air	3/20/18	12:50	3/21/18	11:57
7782-19	(b) (6) [redacted]	Living room	Indoor Air	3/20/18	17:20	3/21/18	16:53
7782-21	(b) (6) [redacted]	Living room	Indoor Air	3/21/18	14:20	3/22/18	13:50
7782-23	(b) (6) [redacted]	Living room	Indoor Air	3/21/18	15:01	3/22/18	14:04
7782-26	(b) (6) [redacted]	Living room	Indoor Air	3/21/18	20:52	3/22/18	19:55
7917-1	(b) (6) [redacted]	Living room	Indoor Air	8/21/18	09:45	8/22/18	09:15
7917-3	(b) (6) [redacted]	Living room	Indoor Air	8/21/18	10:08	8/22/18	09:39
7917-4	(b) (6) [redacted]	Basement quilting room	Indoor Air	8/21/18	10:06	8/22/18	09:38
7917-5	(b) (6) [redacted].	Pavilion storage closet	Indoor Air	8/21/18	10:36	8/22/18	10:03
7917-6	(b) (6) [redacted]	Basement	Indoor Air	8/21/18	10:44	8/22/18	10:11
7917-9	(b) (6) [redacted].	Living room	Indoor Air	8/21/18	11:42	8/22/18	11:15
7917-11	(b) (6) [redacted].	Living room	Indoor Air	8/21/18	13:01	8/22/18	12:33
7917-13	(b) (6) [redacted].	Living room	Indoor Air	8/21/18	16:14	8/22/18	16:09
7917-15	(b) (6) [redacted].	Living room	Indoor Air	8/21/18	16:39	8/22/18	16:22
7917-17	(b) (6) [redacted].	Living room	Indoor Air	8/22/18	08:19	8/23/18	08:02
7917-20 [a]	(b) (6) [redacted]	Basement living room	Indoor Air [a]	8/22/18	08:54	8/23/18	08:21
7917-21	(b) (6) [redacted]	Basement living room	Indoor Air	8/22/18	10:29	8/23/18	10:00
7917-22	(b) (6) [redacted]	Living room	Indoor Air	8/22/18	11:00	8/23/18	10:35
7917-25	(b) (6) [redacted].	Living room	Indoor Air	8/22/18	12:57	8/23/18	12:12
7917-27	(b) (6) [redacted].	Living room	Indoor Air	8/22/18	15:10	8/23/18	14:50
7782-6	(b) (6) [redacted]	West of house	Ambient Air	3/20/18	08:32	3/21/18	08:04
7782-8	(b) (6) [redacted]	Back patio	Ambient Air	3/20/18	09:24	3/21/18	08:40
7782-24	(b) (6) [redacted]	West of house	Ambient Air	3/21/18	15:05	3/22/18	14:06
7917-8	(b) (6) [redacted].	West of house	Ambient Air	8/21/18	10:48	8/22/18	10:09
7917-19	(b) (6) [redacted]	Back patio	Ambient Air	8/22/18	08:20	8/23/18	08:03
7917-24	(b) (6) [redacted]	West of house	Ambient Air	8/22/18	11:04	8/23/18	10:38
7782-27	Trip Blank	NA	Trip Blank	3/22/18	NA	NA	22:00
7917-29	Trip Blank	NA	Trip Blank	8/23/18	NA	NA	15:00

Notes:

[a] Vapor mitigation system installed.

Circ. Circle
Dr. Drive
NA Not applicable
Pl. Place
Rd. Road

3.6 SUB-SLAB VAPOR SAMPLING

On March 19-22 and August 21-23, 2018, START collected 20 sub-slab vapor samples at 11 properties. Properties sampled for sub-slab soil gas were residential structures primarily downgradient (south and east) of the site. One sub-slab vapor sample was collected from a residence northeast of the site to represent background conditions (see Appendix A, Figure 4). Installation of the sub-slab sampling ports involved inserting a 0.25-inch-diameter, stainless-steel tube approximately 6 inches in length into a hole drilled into the sub-slab material, and then sealing the tube's annulus with cement grout. A Swagelok® fitting was attached to the top of the stainless-steel tube to allow its connection to disposable polyethylene tubing that in turn was connected to an evacuated Summa canister for sampling. Each Summa canister was fitted with a flow regulator to enable collection of sub-slab vapor samples over a continuous 24-hour period. The samples were submitted to the EPA Region 7 laboratory for analysis for VOCs. Table 9 below summarizes the sub-slab samples.

TABLE 9

SUB-SLAB SOIL VAPOR SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Sample Number	Address	Location in Residence	Sample Type	Start		End	
				Date	Time	Date	Time
7782-1	(b) (6) [redacted]	Basement storage room	Sub-slab	03/19/18	15:15	03/20/18	14:39
7782-5	(b) (6) [redacted]	Basement storage room	Sub-slab	03/20/18	08:18	03/21/18	08:00
7782-9	(b) (6) [redacted].	Basement storage closet	Sub-slab	03/20/18	09:20	03/21/18	08:37
7782-11	(b) (6) [redacted]	Basement storage room	Sub-slab	03/20/18	10:17	03/21/18	09:24
7782-13	(b) (6) [redacted]	Basement quilting room	Sub-slab	03/20/18	10:46	03/21/18	09:38
7782-16	(b) (6) [redacted]	Basement storage room	Sub-slab	03/20/18	12:48	03/21/18	11:55
7782-18	(b) (6) [redacted].	Basement storage room	Sub-slab	03/20/18	17:18	03/21/18	16:49
7782-20	(b) (6) [redacted]	Basement storage area	Sub-slab	03/21/18	14:17	03/22/18	13:47
7782-22	(b) (6) [redacted]	Basement storage closet	Sub-slab	03/21/18	14:58	03/22/18	14:01
7782-25	(b) (6) [redacted]	Basement unfinished portion	Sub-slab	03/21/18	20:47	03/22/18	19:53
7917-2	(b) (6) [redacted].	Basement corner	Sub-slab	08/21/18	09:42	08/22/18	09:14
7917-7	(b) (6) [redacted].	Basement storage room	Sub-slab	08/21/18	10:45	08/22/18	10:10
7917-10	(b) (6) [redacted]	Basement storage room	Sub-slab	08/21/18	11:45	08/22/18	11:15

TABLE 9 (Continued)

SUB-SLAB SOIL VAPOR SUMMARY
TANGLEFOOT LANE, BETTENDORF, IOWA

Sample Number	Address	Location in Residence	Sample Type	Start		End	
				Date	Time	Date	Time
7917-12	(b) (6) [redacted]	Basement storage area	Sub-slab	08/21/18	12:59	08/22/18	12:32
7917-14	(b) (6) [redacted]	Basement laundry room	Sub-slab	08/21/18	16:13	08/22/18	16:08
7917-16	(b) (6) [redacted]	Basement unfinished portion	Sub-slab	08/21/18	16:30	08/22/18	16:21
7917-18	(b) (6) [redacted].	Basement storage closet	Sub-slab	08/22/18	08:18	08/23/18	08:01
7917-23	(b) (6) [redacted]	Basement storage closet	Sub-slab	08/22/18	10:59	08/23/18	10:35
7917-26	(b) (6) [redacted]	Basement under stairs	Sub-slab	08/22/18	12:56	08/23/18	12:11
7917-28	(b) (6) [redacted].	Basement storage area	Sub-slab	08/22/18	15:10	08/23/18	14:50

Notes:

Circ.	Circle
Dr.	Drive
NA	Not applicable
Pl.	Place
Rd.	Road

3.7 PRIVATE WELL SAMPLING

On March 21-22 and August 23, 2018, START collected eight samples from six private drinking water wells within a mile of the site (see Appendix A, Figure 4). Three private well sample locations were northeast of the site, and three sample locations were south of the site. Groundwater samples from the drinking water wells were collected from spigots nearest the wellheads, prior to any treatment systems. Supply lines/systems were purged for approximately 5 minutes before collection of samples. Groundwater samples were collected in four 40-milliliter (mL) vials preserved with hydrochloric acid (HCl). The samples were submitted to the EPA Region 7 laboratory for analysis for VOCs. Table 10 below summarizes the private well sample locations and associated information.

TABLE 10

PRIVATE WELL SAMPLES
TANGLEFOOT LANE, BETTENDORF, IOWA

Sample Number	Address	Date Sampled	Time Sampled
7782-101	(b) (6) [redacted]	3/21/2018	10:15
7782-112	7782-101-Field Duplicate	3/21/2018	10:15
7782-102	(b) (6) [redacted]	3/22/2018	10:15
7782-103	(b) (6) [redacted].	3/22/2018	12:40
7782-104	(b) (6) [redacted].	3/22/2018	14:20
7782-105	(b) (6) [redacted]	3/22/2018	14:53
7782-106	(b) (6) [redacted].	3/22/2018	16:40
7917-101	(b) (6) [redacted]	8/23/2018	11:10
7782-113	Field Blank	3/22/2018	17:30
7917-102	Field Blank	8/23/2018	12:30
7917-104	Trip Blank	8/23/2018	12:45

Notes:

Ct. Court
Dr. Drive
NA Not applicable
Rd. Road

3.8 QUALITY CONTROL SAMPLES

Field quality control (QC) samples—one equipment rinsate sample of the decontaminated Geoprobe groundwater sampling apparatus, one water trip blank, and two air trip blanks (evacuated Summa canisters)—were submitted to the EPA Region 7 laboratory for analyses with the DPT groundwater, exterior soil-gas, indoor air, ambient air, and sub-slab soil-gas field samples. For sampling of private wells, one field duplicate, two field blanks, and one trip blank were submitted to the EPA Region 7 laboratory. Deionized water provided by the EPA Region 7 laboratory was used to prepare the equipment rinsate and field blanks. The water trip blanks and the Summa canisters used as the air trip blanks were provided by the EPA Region 7 laboratory.

4.0 ANALYTICAL DATA SUMMARY

Samples collected during the SI included 11 groundwater samples, 13 exterior soil gas samples (with one ambient air sample), four surface water and sediment samples, seven surface soil samples, 28 indoor air samples (with six ambient air samples), 20 sub-slab vapor samples, and eight private water well samples. Field sheets are in Appendix E and chain-of-custody records are in Appendix F. Analytical data from the EPA Region 7 laboratory are in Appendix G. Laboratory results from the SI activities are displayed on Figures 5, 6, 7, 8, 9, 10, and 11 in Appendix A.

For interpreting analytical results, and as a guideline for determining significant contaminant levels, exterior soil-gas and sub-slab vapor results were compared to values derived from EPA's Vapor Intrusion Screening Level (VISL) calculator (EPA 2020c). Sediment and surface soil sample results were compared to the EPA's Regional Screening Levels (RSL), Removal Management Levels (RML), and Protection of Groundwater Soil Screening Levels (SSL) (EPA 2019). Groundwater (including private well) samples were compared to RSLs for Tap Water, RMLs for Tap Water, SCDM benchmarks (EPA 2020b), and federal Maximum Contaminant Levels (MCL). Surface water samples were compared to SCDM benchmarks and MCLs. Indoor air samples were compared to SCDM benchmarks, RSLs and RMLs. The following sections discuss analytical results from the SI samples analyzed by the EPA Region 7 laboratory.

4.1 DPT SOIL GAS SAMPLES

In the 11 soil gas samples and one ambient air collected at or near the site on October 4-7, 2016, six VOCs were detected at concentrations exceeding screening values. PCE was detected in five samples at concentrations ranging from 0.475 to 34,200 micrograms per cubic meter ($\mu g/m^3$). One sample (7219-13, in the oil pit location on site) contained PCE (at 34,200 $\mu g/m^3$) above the EPA residential sub-slab VISL of 360 $\mu g/m^3$ and commercial VISL of 1,570 $\mu g/m^3$. TCE was also detected in sample 7219-13 at a concentration of 1,080,000 $\mu g/m^3$, exceeding the EPA residential soil gas VISL of 16 $\mu g/m^3$ and commercial VISL of 100 $\mu g/m^3$. Benzene was detected above the EPA residential soil gas VISL of 12 $\mu g/m^3$ in one sample (7219-9 at a concentration of 33.7 $\mu g/m^3$). Chloroform was detected above the EPA residential sub-slab VISL of 4 $\mu g/m^3$ in two samples (7219-3 [at 36.3 $\mu g/m^3$] and 7219-8 [at 10.6 $\mu g/m^3$]). Naphthalene was detected above the EPA residential sub-slab VISL of 3 $\mu g/m^3$ in two samples (the background sample 7219-1 [at 4.77 $\mu g/m^3$] and 7219-7 [at 5.5 $\mu g/m^3$]). 1,1,1-Trichloroethane (TCA) was detected above the EPA residential sub-slab VISL of 174,000 $\mu g/m^3$ in one sample (7219-13 at 538,000 $\mu g/m^3$). No other VOCs were detected at concentrations exceeding any of the EPA soil gas

VISLs. A soil-gas sample results map is in Appendix A, Figure 5. A summary of analytical results from the soil-gas samples collected is in Table 11 below. The complete laboratory data package for ASR 7219 is in Appendix G.

4.2 DPT GROUNDWATER SAMPLES

In the 13 DPT groundwater samples collected at or near the site during October 4-7, 2016, 12 VOCs, two SVOCs, and seven total metals (two dissolved metals) were detected at concentrations exceeding screening values. PCE was detected in three samples at concentrations ranging from 1.3 to 83 µg/L. Two samples (7219-213 and 7219-214) contained PCE above its EPA MCL of 5 µg/L at concentrations of 83 and 15 µg/L, respectively. TCE was detected in three samples (7219-213 [6,800 µg/L], 7219-214 [600 µg/L], and 7219-215 [60 µg/L]) at concentrations exceeding its MCL of 5 µg/L. All three detections of PCE and TCE were from the samples collected on site in the former oil pit and landfill area. Additionally, at one or more of these three sample locations, the VOCs benzene, chloroethane, 1,1-dichloroethane (DCA), 1,2-DCA, 1,2-dichloroethene (DCE), *cis*-1,2-DCE, ethylbenzene, toluene, and vinyl chloride were detected at levels above one or more of their MCLs, RSLs for Tap Water, RMLs for Tap Water, and/or SCDM benchmarks. The only other sample yielding VOC detections exceeding any screening values was sample 7219-201 in which benzene was detected at 1.3 J µg/L, exceeding only the RSL for tap water of 0.46 µg/L, and vinyl chloride was detected at 8.0 J µg/L, exceeding its MCL of 2 µg/L.

TPH-GRO was detected in samples 7219-213 (75.7 mg/L), 7219-214 (4.23 mg/L), and 7219-215 (2.63 mg/L) collected in the former oil pit and landfill areas. The SVOC 1,4-dioxane was detected at concentrations exceeding screening benchmarks in samples 7219-213 (160 µg/L), 7219-214 (3.2 µg/L), and 7219-215 (60 µg/L) collected in the former oil pit and landfill areas. Naphthalene was detected above its RSL for tap water in one sample (7219-213 [10 µg/L]) collected in the former oil pit. No other samples yielded detections of SVOCs.

The total metals arsenic (total and dissolved), beryllium, chromium, cobalt, lead, manganese (total and dissolved), and/or vanadium were detected at concentrations exceeding screening benchmarks in seven samples, with highest concentrations in samples collected in the former oil pit and landfill areas. No herbicides, pesticides, or PCBs were detected at levels above screening benchmarks in any samples. A DPT groundwater sample results map is in Appendix A, Figure 6. A summary of analytical results from the groundwater samples collected is in Table 12 below. The complete laboratory data package for ASR 7219 is in Appendix G.

TABLE 11

SUMMARY OF DPT SOIL-GAS SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

				VOCs ($\mu g/m^3$)																					
EPA Sample ID	Sample Date	Sample Time	Sample Depth (ft bgs)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chloroform	1,1-Dichloroethene	*cis*-1,2-Dichloroethene	Ethyl Benzene	Heptane	Hexane	Methylene Chloride	4-Methyl-2-Pentanone	Naphthalene	PCE	Toluene	1,1,1-Trichloroethane	TCE	1,1,2-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m and/or p-Xylene	o-Xylene
7219-1	10/4/16	14:45	4-5	45.1	2.4	8.87	2.49	ND	ND	ND	ND	4.69	5.61	5.32	ND	ND	4.77	0.475	9.42	ND	ND	ND	11.8	2.9	17.3	5.9
7219-2	10/4/16	16:20	4-5	40.4	1.92	7.99	ND	0.44	ND	ND	ND	2.91	2.21	3.42	ND	ND	ND	ND	5.27	ND	ND	ND	8.5	ND	11.9	4.04
7219-3	10/5/16	07:25	4-5	14.9	1.98	ND	ND	ND	36.3	ND	ND	7.81	23	30.4	ND	ND	ND	ND	13.6	ND	ND	ND	8.89	ND	16.7	6.21
7219-4	10/5/16	08:45	4-5	39.2	1.05	10.1	3.8	ND	ND	ND	ND	3.34	2.46	3.52	ND	ND	ND	ND	6.06	ND	ND	106	7.27	ND	12.8	4.12
7219-5	10/5/16	11:50	4-5	57.5	2.27	14.9	ND	0.44	ND	ND	ND	2.86	2.58	8.17	19.9	ND	ND	ND	5.76	ND	ND	ND	6.49	ND	11.4	3.73
7219-6	10/5/16	13:40	4-5	15.8	0.543	3.07	ND	ND	2.49	ND	ND	ND	ND	14.8	65.3	ND	ND	1.22	3.09	ND	ND	ND	4.86	ND	7.29	2.52
7219-7	10/5/16	15:25	4-5	137	5.56	31	5.01	ND	2.88	ND	ND	14.4	13.6	21.5	48.9	2.99	5.5	1.15	27.5	ND	ND	ND	27.7	7.42	54.7	18.4
7219-8	10/5/16	17:00	4-5	46.9	0.703	10.4	ND	ND	10.6	ND	ND	2.34	ND	3.84	ND	ND	ND	ND	4.52	ND	ND	ND	5.55	ND	9.33	3.08
7219-9	10/5/16	17:52	4-5	59	33.7	19.1	ND	ND	ND	ND	ND	5.16	22.3	71.9	ND	ND	ND	ND	19.6	ND	ND	ND	13.1	3.29	20.7	6.86
7219-10	10/6/16	08:40	4-5	27.3	0.766	6.81	ND	ND	ND	ND	ND	ND	2.09	2.68	ND	ND	ND	ND	3.47	ND	ND	ND	3.88	ND	7.16	2.34
7219-11	10/6/16	10:35	4-5	54.1	1.18	10.5	ND	0.44	ND	ND	ND	2.3	2.25	3.31	ND	ND	ND	ND	5.2	ND	ND	ND	5.06	ND	9.03	2.99
7219-12	10/6/16	13:42	4-5	36.2	1.63	8.7	2.46	ND	ND	ND	ND	4.34	4.67	8.07	ND	ND	2.72	0.746	7.16	ND	ND	ND	11.2	2.7	17.4	5.95
7219-13	10/7/16	08:00	4-5	ND	ND	ND	ND	ND	ND	6,600	22,100	ND	ND	ND	ND	ND	ND	34,200	ND	5.38E+5	1.08E+6	ND	ND	ND	ND	ND
VISL – Residential (cancer risk = 1.0E-6)				1.07E+6	12	1.74E+5	24,300	16	4	6,950	NE	37	13,900	24,300	3,380	1.04E+5	3	360	1.74E+5	1.74E+5	16	1.74E+5	2,090	2,090	3,480	3,480
VISL – Commercial (cancer risk = 1.0E-6)				4.51E+6	52	7.3E+5	1.02E+5	68	18	29,200	NE	164	58,400	1.02E+5	40,900	4.38E+5	12	1,570	7.3E+5	7.3E+5	100	7.3E+5	8,760	8,760	14,600	15,000
VISL – Residential (cancer risk = 1.0E-4)				1.07E+6	1,040	1.74E+5	24,300	1,560	407	6,950	NE	3,740	13,900	24,300	20,900	1.04E+5	104	1,390	1.74E+5	1.74E+5	70	1.74E+5	2,090	2,090	3,480	3,480
VISL – Commercial (cancer risk = 1.0E-4)				4.51E+6	4,380	7.3E+5	1.02E+5	6,810	1,780	29,200	NE	16,400	58,400	1.02E+5	87,600	4.38E+5	438	5,840	7.3E+5	7.3E+5	292	7.3E+5	8,760	8,760	14,600	14,600

Notes:

Shaded result exceeds at least one of the listed screening levels.

Only analytes detected in at least one sample are included in the table.

bgs Below ground surface
DPT Direct-push technology
EPA U.S. Environmental Protection Agency
ft Feet
ID Identification
$\mu g/m^3$ Micrograms per cubic meter
ND Not detected
NE Not established
PCE Tetrachloroethene
TCE Trichloroethene
VISL Vapor intrusion screening level target sub-slab and near-source soil gas concentration (hazard quotient for non-carcinogens = 1)
VOC Volatile organic compound

TABLE 12

SUMMARY OF DPT GROUNDWATER SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

		Metals - Dissolved (µg/L)						Metals - Total (µg/L)												Herbicides (µg/L)	SVOCs (µg/L)					TPH (mg/L)	VOCs (µg/L)																			
EPA Sample ID	Sample Depth (ft bgs)	Arsenic	Barium	Cobalt	Manganese	Nickel	Zinc	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Vanadium	Zinc	2,4-D	1,4-Dioxane	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	TPH GRO	Acetone	Benzene	Chloroethane	Cyclohexane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	*cis*-1,2-Dichloroethene	*trans*-1,2-Dichloroethene	Ethyl Benzene	Isopropylbenzene	PCE	Toluene	1,1,1-Trichloroethane	TCE	1,1,2-Trichlorotrifluoroethane	Vinyl Chloride	m and/or p-Xylene	o-Xylene
7219-201	34-38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	1 3 J	ND	ND	ND	ND	ND	19 J	ND	ND	ND	ND	ND	ND	ND	ND	8 0 J	ND	ND
7219-202	40-44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-203	32-36	2 5	176	ND	213	1 2	24 5	3 8	208	ND	ND	18 8	8 9	10 9	17 9	260	12 7	25 0	83 8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-204	28-32	1 0	116	ND	347	ND	ND	4 3	136	ND	ND	2 0	2 6	4 7	4 5	610	7 4	ND	24 3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 99	ND	ND	ND	ND	ND	ND
7219-205	36-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-206	36-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 89	ND	ND	ND	ND	ND	ND
7219-207	36-40	1 2	106	ND	270	3 0	26 9	1 1	108	ND	ND	4 4	ND	4 7	ND	270	4 0	ND	27 6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-210	28-32	11 7	428	ND	123	1 5	10 1	11 5	449	ND	ND	4 1	1 8	4 9	2 7	157	7 1	5 2	34 1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-213	40-44	ND	85 3	3 3	145	6 7	16 9	10 4	842	8 2	1 7	76 6	148	123	147	5,510	181	112	1,050	ND	160	10	29	37	10	75 7	ND	ND	ND	ND	ND	ND	320	ND	ND	ND	ND	83	4,600	3,000	6,800	170	ND	66	ND
7219-214	16-20	2 9	126	1 9	509	6 5	39 7	12 0	249	1 2	4 3	79 0	41 6	57 4	187	4,390	75 5	37 9	229	ND	3 2	ND	ND	ND	ND	4 23	13	0 60	ND	3 2	2 1	ND	45 J	150	8 8 J	3 1	0 60	15	500	290	600	17	6 1	13	4 0
7219-215	16-20	3 7	635	1 4	211	6 2	13 7	4 0	672	ND	ND	ND	1 3	14 9	13 7	233	7 6	ND	48 4	4 6	60	ND	ND	ND	ND	2 63	6 1	170	300	4 1	12	0 70	3 9	12	1 3	11	2 3	1 3	460	28 J	60	ND	19	28 J	9 3
RSL for Tap Water		0 052	3,800	6	430	390	6,000	0 052	3,800	25	9 2	NE	6	800	15	430	390	86	6,000	1 7E+5	0 46	36	930	1,900	0 17	NE	14,000	0 46	21,000	13,000	2 8	0 17	280	36	360	1 5	450	11	1,100	8,000	0 49	10,000	0 019	190	190
RML for Tap Water		5 2	11,000	18	1,300	1,200	18,000	5 2	11,000	74	28	NE	18	2,400	15	1,300	1,200	260	18,000	5 2E+5	46	110	2,800	5,600	17	NE	42,000	46	63,000	38,000	280	17	850	110	1,100	150	1,400	120	3,300	24,000	8 5	31,000	1 9	580	580
SCDM CR		0 052	NE	NE	NE	NE	NE	0 051	NE	NE	NE	0 05	NE	NE	NE	NE	NE	NE	NE	NE	0 78	NE	NE	NE	NE	NE	NE	1 4	NE	NE	14	0 85	NE	NE	NE	7 1	NE	37	NE	NE	1 2	NE	0 021	NE	NE
SCDM NCR		6	4,000	6	2,800	400	6,000	6	4,000	40	10	60	6	800	NE	2,800	400	101	6,000	NE	600	80	NE	2,000	400	NE	18,000	80	200	NE	4,000	120	1,000	40	400	2,000	2,000	120	1,000	40,000	10	NE	60	4,000	4,000
MCL		10	2,000	NE	NE	NE	NE	10	2,000	4	5	100	NE	1,300	15	NE	NE	NE	NE	70	NE	NE	NE	NE	NE	NE	NE	5	NE	NE	NE	5	7	70	100	700	NE	5	1,000	200	5	NE	2	NE	NE

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

bgs	Below ground surface	J	Estimated value	PCE	Tetrachloroethene
CR	Cancer Risk	MCL	Maximum Contaminant Level	RML	Removal Management Level
D	Dichlorophenoxyacetic acid	µg/L	Micrograms per liter	RSL	Regional Screening Level
DPT	Direct-push technology	mg/L	Milligrams per liter	SVOC	Semivolatile organic compound
EPA	U.S. Environmental Protection Agency	NCR	Non-Cancer Risk	SCDM	Superfund Chemical Data Matrix
ft	Feet	NA	Not analyzed	TPH	Total petroleum hydrocarbons
GRO	Gasoline-range organics	ND	Not detected	TCE	Trichloroethene
ID	Identification	NE	Not established	VOC	Volatile organic compound

4.3 SURFACE SOIL SAMPLES

In the seven surface soil samples collected on the site on October 7, 2016, five SVOCs, 18 metals, 14 pesticides, and one PCB were detected. No VOC was detected in any sample. One SVOC (benzo(b)fluoranthene) was detected in one sample (7219-110 [at 400 mg/kg]) above the Protection of Groundwater SSL. All SVOC concentrations were below their respective RSLs and RMLs for industrial soil. Arsenic, barium, cadmium, cobalt, iron, lead, manganese, and mercury were detected at concentrations exceeding Protection of Groundwater Risk-Based and/or MCL-Based SSLs. However, all metals detections were below their respective RSLs and RMLs for industrial soil except for arsenic, which exceeded its RSL of 3 mg/kg in all five samples. Six pesticides were detected at concentrations exceeding Protection of Groundwater SSLs. All pesticide concentrations were below the RSLs and RMLs for industrial soil. The PCB Aroclor 1254 was detected in four samples (former oil pit and landfill area) above its Protection of Groundwater SSL, but below its RSL and RML for industrial soil. TPH-DRO and TPH-ORO were detected in one sample (7219-108 in the former landfill area) at concentrations of 25.9 and 151 mg/kg, respectively. A surface soil results map is in Appendix A, Figure 7. A summary of analytical results from the surface soil samples collected is in Table 13. The complete laboratory data package for ASR 7219 is in Appendix G.

TABLE 13

SUMMARY OF SURFACE SOIL SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

		Metals (mg/kg)																		Pesticides (µg/kg)														PCBs (µg/kg)	SVOCs (µg/kg)					TPH (mg/kg)	
EPA Sample ID	Sample Depth (ft bgs)	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Vanadium	Zinc	Aldrin	B-BHC	*cis*-Chlordane	*trans*-Chlordane	p,p'-DDD	p,p'-DDE	p,p'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor Epoxide	Aroclor 1254	Benzo(b)fluoranthene	bis(2-Ethylhexyl)phthalate	Chrysene	Fluoranthene	Pyrene	TPH DRO	TPH ORO
7219-105	0-0.5	7,580	6 0	159	0 58	3 9	4,110	15 1	8 6	20 3	14,200	306	1,850	764	0 74	17 2	1,500	22 5	123	6 1	11	ND	ND	17	19 J	21	8 7	8 4	8 6	4 8	14	ND	2 8	560	ND	ND	ND	ND	ND	ND	ND
7219-106	0-0.5	7,100	4 7 J	91 4	0 56	0 78	6,880	10 8	7 6	14 4	14,900	25 4	4,000	472	ND	16 2	728	21 3	49 3	ND	3 4	ND	ND	ND	ND	7 1	ND	2 4	ND	ND	ND	ND	ND	57	ND	ND	ND	ND	ND	ND	ND
7219-107	0-0.5	1,900	1 4 J	41 5	ND	0 78	4,360	13 6	4 8	19 2	9,880	75 9	1,390	165	ND	7 5	ND	ND	112	ND	ND	2 0	3 6	ND	ND	8 5	ND	ND	ND	ND	6 0	ND	ND	130	ND	250	ND	ND	ND	ND	ND
7219-108	0-0.5	7,500	3 0 J	77 1	0 64	3 0	3,260	21 0	9 3	21 8	18,800	71 1	1,600	490	0 16	18 1	760	20 5	72 1	ND	ND	2 3	7 2	6 4	4 1	32	5 4	ND	ND	ND	32	5 6 J	ND	300	ND	ND	ND	ND	220	25 9	151
7219-109	0-0.5	5,250	3 7 J	110	ND	0 58	8,990	8 2	5 8	11 1	11,300	10 8	3,820	506	ND	12 5	678	17 6	36 6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	220	ND	ND
7219-110	0-0.5	6,140	4 2 J	91 9	ND	0 65	14,100	9 5	6 5	12 4	11,900	11 3	6,280	458	ND	13 8	668	20 4	37 9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 0	ND	400	ND	250	470	380	ND	ND
7219-111	0-0.5	5,900	3 4 J	97 7	ND	0 61	12,300	9 3	6 0	13 4	12,000	11 0	5,590	435	ND	13 6	1,140	19 6	44 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250	ND	ND	ND	ND	ND	ND
RSL for Industrial Soil		1 1E+6	3	2 2E+5	2,300	980	NE	NE	350	47,000	8 2E+5	800	NE	26,000	46	22,000	NE	5,800	3 5E+5	180	1,300	NE	NE	9,600	9,300	8,500	140	7 0E+6	7 0E+6	2 5E+5	NE	NE	330	970	21,000	1 6E+5	2 1E+6	3 0E+7	2 3E+7	NE	NE
Protection of Groundwater Risk-Based SSL		30,000	1,500	160	19	0 69	NE	NE	0 27	280	350	NE	NE	28	0 033	26	NE	86	370	0 15	0 15	NE	NE	7 5	11	77	0 071	1,400	1,400	92	NE	NE	0 028	2	300	1,300	9,000	89,000	13,000	NE	NE
Protection of Groundwater MCL-Based SSL		NE	0 29	82	3 2	0 38	NE	1 8E+05	NE	460	NE	14	NE	NE	0 1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	81	NE	NE	4 1	NE	NE	1,400	NE	NE	NE	NE	NE
RML for Industrial Soil		3 4E+6	300	6 5E+5	6,900	2,900	NE	NE	1,000	1 4E+5	2 5E+6	800	NE	77,000	140	67,000	NE	17,000	1 1E+6	18,000	1 3E+5	NE	NE	74,000	9 3E+5	8 5E+5	14,000	2 1E+7	2 1E+7	7 4E+5	NE	NE	33,000	44,000	2 1E+6	1 6E+7	2 1E+8	9 0E+7	6 8E+7	NE	NE

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

bgs	Below ground surface	ft	Feet	ORO	Oil-range organics
B	Beta	ID	Identification	PCB	Polychlorinated biphenyl
BHC	Hexachlorocyclohexane	J	Estimated value	RML	Removal Management Level
DDD	Dichlorodiphenyldichloroethane	MCL	Maximum Contaminant Level	RSL	Regional Screening Level
DDE	Dichlorodiphenyldichloroethene	µg/kg	Micrograms per kilogram	SVOC	Semivolatile organic compound
DDT	Dichlorodiphenyltrichloroethane	mg/kg	Milligrams per kilogram	SSL	Soil Screening Level
DRO	Diesel-range organics	ND	Not detected	TPH	Total petroleum hydrocarbons
EPA	U.S. Environmental Protection Agency	NE	Not established		

4.4 SURFACE WATER AND SEDIMENT SAMPLES

In all four surface water samples collected along the creek running west to east on the southern portion of the site, four total metals were detected at concentrations exceeding screening values. PCE and TCE were not detected in any sample. No sample yielded detections of VOCs, SVOCs, or herbicides at concentrations above screening levels. Arsenic (total and dissolved), chromium, cobalt, and manganese were detected at concentrations exceeding SCDM screening benchmarks for drinking water; however, all detections were below their respective MCLs.

In the four sediment samples collocated with the surface water samples, five SVOCs, seven metals, and one pesticide were detected at concentrations exceeding screening values. PCE and TCE were not detected in any sample. No sample yielded a detection of a VOC at concentration above a screening level. Five SVOCs were detected in two samples (7219-101 and 7219-104) at concentrations above the Protection of Groundwater SSLs; however, all SVOC concentrations were below their RSLs and RMLs for industrial soil. Arsenic, barium, cadmium, cobalt, iron, manganese, and silver were detected at concentrations exceeding Protection of Groundwater Risk-Based and/or MCL-Based SSLs. However, all metals detections were below their respective RSLs and RMLs for industrial soil except for arsenic, which exceeded its RSL of 3 mg/kg in all four samples. One pesticide was detected in two samples (7219-102 and 7219-104) at concentrations exceeding its Protection of Groundwater SSL, but below its RSL and RML for industrial soil. TPH-ORO was detected in one sample (7219-101) at 138 mg/kg.

A surface water results map is in Appendix A, Figure 8, and a sediment results map is in Appendix A, Figure 9. Summaries of analytical results from the surface water and sediment samples collected are in Tables 14 and 15, respectively, below. The complete laboratory data package for ASR 7219 is in Appendix G.

TABLE 14

SUMMARY OF SURFACE WATER SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

		Metals - Dissolved (µg/L)						Metals - Total (µg/L)										Herbicides (µg/L)	VOCs (µg/L)	
EPA Sample ID	Sample Date	Arsenic	Barium	Copper	Manganese	Nickel	Zinc	Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Vanadium	Zinc	2,4-D	Acetone	*cis*-1,2-Dichloroethene
7219-208	10/6/16	1.4	78.1	ND	126	1.1	ND	1.7	86.2	ND	ND	2.6	ND	189	1.3	ND	8.4	4.3	6.3	0.59
7219-209	10/6/16	1.7	52.1	2.1	171	1.1	8.9	1.7	57.2	ND	ND	2.5	ND	242	1.1	ND	ND	4.7	7.8	ND
7219-211	10/6/16	2.0	96.2	ND	1,530	3.8	10.1	6.7	647	6.8	8.8	12.1	3.7	4,960	15.9	10.3	43.8	ND	5.0	ND
7219-212	10/6/16	1.9	56.1	5.9	28.2	1.8	10.1	2.1	59.7	2.3	ND	6.8	ND	38.3	2.4	ND	13.6	2.9	ND	ND
SCDM CR for Drinking Water		0.052	NE	NE	NE	NE	NE	0.052	NE	0.05	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
SCDM NCR for Drinking Water		6	4,000	800	2,800	400	6,000	6	4,000	60	6	800	NE	2,800	400	101	6,000	NE	11,000	40
MCL		10	2,000	1,300	NE	NE	NE	10	2,000	100	NE	1,300	15	NE	NE	NE	NE	70	NE	70

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

CR	Cancer Risk	NCR	Non-Cancer Risk
D	Dichlorophenoxyacetic acid	ND	Not detected
EPA	U.S. Environmental Protection	NE	Not established
ID	Identification	SCDM	Superfund Chemical Data Matrix
MCL	Maximum Contaminant Level	VOC	Volatile organic compound
µg/L	Micrograms per liter		

TABLE 15

SUMMARY OF SEDIMENT SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

		Metals (mg/kg)																			Pesticides (µg/kg)			SVOCs (µg/kg)													TPH (mg/kg)	VOCs (µg/kg)	
EPA Sample ID	Sample Depth (ft bgs)	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Silver	Sodium	Vanadium	Zinc	B-BHC	p,p'-DDE	Endrin Aldehyde	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	4-Chloro-3-methylphenol	2-Chlorophenol	Chrysene	2,4-Dinitrotoluene	Fluoranthene	Indeno(1,2,3-cd)pyrene	4-Nitrophenol	Phenanthrene	Pyrene	TPH ORO	Acetone	2-Butanone
7219-101	0-0.5	8,390	4 6 J	116	0 64	0 86	12,700	12 7	7 8	16 9	17,300	13 1	5,260	648	17 3	697	ND	ND	24 0	52 7	ND	ND	ND	660 J	ND	ND	390	660 J	600 J	ND	610 J	ND	ND	670 J	ND	1,000 J	138	ND	ND
7219-102	0-0.5	7,690	4 0 J	107	0 60	0 69	7,870	11 4	7 1	13 8	14,500	11 8	3,610	372	15 8	615	ND	ND	23 0	40 4	6 0	9 1 J	6 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7219-103	0-0.5	8,380	14 6	274	0 80	1 5	5,650	10 6	15 3	14 1	30,100	12 1	3,190	2,630	19 8	599	1 3	ND	23 3	45 3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	21
7219-104	0-0.5	8,160	4 1 J	118	0 60	0 63	7,060	20 3	8 7	13 6	14,600	11 7	3,410	379	16 0	936	ND	650	25 4	39 7	2 5	ND	ND	ND	280	240	420	ND	ND	340	ND	860	230	ND	620	720	ND	78	20
RSL for Industrial Soil		1 1E+6	3	2 2E+5	2,300	980	NE	NE	350	47,000	8 2E+5	800	NE	26,000	22,000	NE	5,800	NE	5,800	3 5E+5	1,300	9,300	NE	4 5E+7	21,000	2,100	21,000	8 2E+7	5 8E+6	2 1E+6	7,400	3 0E+7	21,000	NE	NE	2 3E+7	NE	6 7E+8	1 9E+8
Protection of Groundwater Risk-Based SSL		30,000	1,500	160	19	0 69	NE	NE	0 27	280	350	NE	NE	28	26	NE	0 8	NE	86	370	0 15	11	NE	5,500	11	29	300	1,700	89	9,000	0 32	89,000	980	NE	NE	13,000	NE	2,900	1,200
Protection of Groundwater MCL-Based SSL		NE	0 29	82	3 2	0 38	NE	1 8E+05	NE	460	NE	14	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	240	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
RML for Industrial Soil		3 4E+6	300	6 5E+5	6,900	2,900	NE	NE	1,000	1 4E+5	2 5E+6	800	NE	77,000	67,000	NE	18,000	NE	17,000	1 1E+6	1 3E+5	9 3E+5	NE	1 4E+8	2 1E+6	2 1E+5	2 1E+6	2 5E+8	1 8E+7	2 1E+8	7 4E+5	9 0E+7	2 1E+6	NE	NE	6 8E+7	NE	2 0E+9	5 8E+8

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

bgs	Below ground surface	J	Estimated value	RML	Removal Management Level
B	Beta	MCL	Maximum Contaminant Level	RSL	Regional Screening Level
BHC	Hexachlorocyclohexane	µg/kg	Micrograms per kilogram	SVOC	Semivolatile organic compound
DDE	Dichlorodiphenyldichloroethene	mg/kg	Milligrams per kilogram	SSL	Soil Screening Level
EPA	U.S. Environmental Protection Agency	ND	Not detected	TPH	Total petroleum hydrocarbons
ft	Feet	NE	Not established	VOC	Volatile organic compound
ID	Identification	ORO	Oil-range organics		

4.5 INDOOR AIR AND AMBIENT AIR SAMPLES

In the 28 indoor air samples collected during March 19-21, 2018, and during August 21-22, 2018 (two sampling events), 38 VOCs were detected. Thirteen VOCs were detected at concentrations above their respective SCDM Subsurface Intrusion (SsI) Cancer Risk (CR) benchmarks (or Residential RSL if a SCDM SsI benchmark had not been established). Compounds exceeding the benchmarks were benzene (all 28 samples), 1,3-butadiene (2 samples), carbon tetrachloride (26 samples), chloroform (all 28 samples), 1,4-dichlorobenzene (1 sample), 1,2-dichloroethane (26 samples), ethyl acetate (18 samples), ethyl benzene (13 samples), 2-propanol (14 samples), PCE (4 samples), 1,2,4-trimethylbenzene (5 samples), m,p-xylene (5 samples) and o-xylene (3 samples). One residential indoor air sample (sample 7782-12, collected from the living room of (b) (6) [redacted] on March 20, 2018) contained PCE at 24 $\mu g/m^3$, above the SCDM SsI CR benchmark of 10.8 $\mu g/m^3$. When this address was sampled again on August 21, 2018, the sample (7917-9) contained PCE at 10 $\mu g/m^3$. No other residential indoor air sample contained PCE at a concentration above the SCDM benchmark.

Twenty-one VOCs were detected in the six ambient air samples. Benzene, carbon tetrachloride, chloroform, and ethylbenzene were detected in the ambient air samples at concentrations exceeding their SCDM SsI CRs. TCE was not detected in any indoor air or ambient air sample. Vapor intrusion sample results are shown on Figure 10 in Appendix A. A summary of analytical results from the indoor air samples collected is in Table 16 below. The complete laboratory data packages for ASR 7782 and 7917 are in Appendix G.

TABLE 16

SUMMARY OF INDOOR AIR AND AMBIENT AIR SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

EPA Sample ID	Sample Collection				VOCs (µg/m³)																																				
	Start		End																																						
	Date	Time	Date	Time	Acetone	Allyl Chloride	Benzene	1,3-Butadiene	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Chloromethane	Cyclohexane	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Dichloroethene	*trans*-1,2-Dichloroethene	Ethyl Acetate	Ethyl Benzene	4-Ethyltoluene	Heptane	Hexane	2-Hexanone	Methylene Chloride	MIBC	2-Propanol	Propene	Styrene	PCE	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Vinyl Acetate	Vinyl Chloride	m and/or p-Xylene	o-Xylene
Indoor Air																																									
7782-2	03/19/18	15:15	03/20/18	14:40	19	ND	0 46	ND	2 7	ND	0 63 J	0 31	1 8	ND	ND	3 4	0 17	ND	ND	1 2	ND	ND	ND	ND	ND	ND	ND	7 9 J	0 86	ND	ND	ND	2 9	ND	1 8	ND	ND	ND	1 2 J	ND	ND	ND
7782-3	03/19/18	15 50	03/20/18	15:20	22	ND	1 7	0 53	4 2	ND	0 68 J	0 70	2 8	ND	ND	3 0	0 31	ND	ND	4 1	ND	ND	ND	0 79	ND	ND	ND	4 5 J	3 6	ND	ND	ND	4 9	ND	2 7	ND	ND	ND	3 2 J	ND	2 1	ND
7782-4	03/20/18	08:26	03/21/18	08:02	21	ND	0 50	ND	2 7	ND	0 63J	0 23	1 8	ND	ND	3 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23 J	16	ND	ND	ND	ND	ND	3 2	ND	ND	ND	2 1 J	ND	ND	ND
7782-7	03/20/18	08:39	03/21/18	07:50	32	ND	0 50	ND	2 6	ND	0 65 J	0 41	1 4	ND	ND	15	ND	ND	0 55	6 8	ND	ND	ND	ND	ND	ND	ND	44 J	0 92	ND	0 67	ND	4 2	ND	2 7	1 5 J	ND	ND	4 2 J	ND	ND	ND
7782-10	03/20/18	09:22	03/21/18	08:39	64	ND	3 4	ND	18	ND	0 62 J	0 89	1 8	1 4	ND	3 3	3 2	ND	ND	11	2 1	ND	2 4	6 8	ND	1 2	ND	210 J	4 4	ND	ND	7 7 J	15	ND	3 8	3 2 J	ND	1 3	ND	ND	7 8	2 6
7782-12	03/20/18	10:19	03/21/18	09:26	46	ND	8 1	ND	18	ND	0 59 J	0 45	2 0	2 5	ND	7 5	0 18	ND	ND	15	5 1	ND	5 1	15	ND	17	ND	33 J	3 0	2 1 J	24	0 72 J	42	ND	1 6	7 2 J	1 3 J	5 8	ND	ND	19	6 2
7782-14	03/20/18	10:47	03/21/18	09:40	33	ND	0 64	ND	4 5	ND	0 61 J	1 1	1 7	ND	ND	3 1	0 14	ND	ND	9 6	ND	ND	ND	ND	ND	ND	ND	7 1 J	1 0	ND	ND	ND	2 2	ND	1 7	ND	ND	ND	4 2 J	ND	ND	ND
7782-15	03/20/18	12:13	03/21/18	11:32	66	ND	4 4	ND	8 5 J	ND	0 53	0 54	1 2	3 2	ND	2 4	0 17	ND	ND	3 9	1 8	ND	3 6	10	ND	ND	ND	8 3 J	2 4	ND	1 9	11 J	21 J	ND	1 4	2 6 J	ND	3 0	ND	ND	7 8	2 4
7782-17	03/20/18	12 50	03/21/18	11:57	41	ND	0 63	ND	5 3 J	ND	0 52	1 5	1 4	ND	ND	2 7	1 2	ND	ND	3 6	ND	ND	ND	ND	ND	2 0	ND	63 J	1 2	ND	1 2	1 3 J	6 5 J	ND	1 6	ND	ND	1 1	4 3 J	ND	ND	ND
7782-19	03/20/18	17:20	03/21/18	16:53	46	ND	3 8	ND	16 J	5 9	0 51	1 2	1 5	2 1	ND	2 6	0 55	ND	ND	5 6	2 1	ND	3 0	7 3	ND	9 6	ND	9 6 J	6 3	ND	ND	3 3 J	17 J	ND	1 4	3 0 J	ND	1 7	6 0 J	ND	8 0	2 8
7782-21	03/21/18	14:20	03/22/18	13:50	36	ND	1 2	ND	2 8 J	ND	0 53	1 8	1 5	0 85	ND	2 8	0 15	ND	ND	41	2 2	ND	2 3	2 7	ND	0 94	ND	8 8 J	4 9	ND	0 54	ND	11 J	ND	1 6	3 0 J	ND	5 4	7 6 J	ND	9 3	3 5
7782-23	03/21/18	15 01	03/22/18	14:04	20	ND	0 57	ND	2 1 J	ND	0 55	0 17	1 3	ND	ND	2 6	0 89	ND	ND	6 6	ND	ND	ND	ND	ND	ND	ND	5 8 J	1 7	ND	ND	ND	ND	ND	1 6	ND	ND	ND	2 0 J	ND	ND	ND
7782-26	03/21/18	20 52	03/22/18	19:55	21	ND	0 87	ND	2 4 J	ND	0 55	1 4	1 4	ND	ND	2 9	0 22	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	7 4 J	1 7	ND	ND	ND	1 9 J	ND	1 6	ND	ND	ND	2 0 J	ND	ND	ND
7917-1	08/21/18	09:45	08/22/18	09:15	190	ND	6 9	ND	29	ND	0 72 J	1 8	1 9	1 6	55	2 7	3 4	0 73	ND	7 2	14	4 4	6 2	8 0	ND	8 8	4 3 J	20	2 6	3 1	0 52	6 4 J	76	1 9	28	15	3 6	25	13 J	ND	46	16
7917-3	08/21/18	10 08	08/22/18	09:39	150 J	ND	1 3	ND	15	ND	1 2 J	3 8	1 7	ND	ND	2 6	0 63	ND	ND	120 J	2 1	ND	1 6	1 5	ND	ND	4 8 J	44	1 1	21	0 36	1 9 J	12	ND	2 0	1 5	ND	8 3	10 J	ND	6 5	2 2
7917-4	08/21/18	10 06	08/22/18	09:38	150	ND	1 3	ND	15	ND	1 2 J	3 6	1 8	ND	ND	2 5	0 52	ND	ND	89	2 1	ND	1 6 J	1 4	ND	ND	4 3 J	42	1 0	20 J	0 34	1 8 J	12 J	ND	2 0	1 5	ND	7 2 J	9 8 J	ND	6 4	2 2
7917-5	08/21/18	10:36	08/22/18	10:03	100	ND	0 75	ND	7 7	ND	0 66 J	1 6	1 6	ND	ND	39	0 16	ND	1 8	9 4	ND	ND	0 86 J	1 4	ND	ND	ND	120	1 9	1 5 J	7 1	ND	14 J	ND	11	ND	ND	ND	10 J	ND	ND	ND
7917-6	08/21/18	10:44	08/22/18	10:11	88	ND	0 59	ND	17	ND	0 84 J	2 5	2 1	ND	ND	3 7	0 15	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	76	ND	ND	ND	1 3 J	3 1 J	ND	14	ND	ND	ND	12 J	ND	ND	ND
7917-9	08/21/18	11:42	08/22/18	11:15	94	ND	8 8	ND	321	ND	0 75 J	0 92	1 5	3 0	ND	6 6	0 30	ND	ND	7 5	6 7	ND	5 2 J	13	ND	5 8	ND	32	2 1	3 8 J	10	1 2 J	55 J	ND	1 8	7 6	1 5	5 7 J	ND	ND	25	8 0
7917-11	08/21/18	13 01	08/22/18	12:33	46	ND	0 77	ND	4 2	ND	0 65 J	1 4	1 4	ND	ND	2 4	1 8	ND	ND	6 4	ND	ND	ND	ND	ND	2 2	ND	5 6	ND	ND	ND	ND	4 7 J	ND	1 8	ND	ND	ND	2 7 J	ND	ND	ND
7917-13	08/21/18	16:14	08/22/18	156 09	720	ND	1 4	ND	27	ND	0 75 J	2 9	1 4	ND	ND	2 2	2 1	0 86	ND	19	ND	ND	ND	1 3	ND	8 5	ND	10	3 9	ND	ND	5 8	8 1	ND	1 5	1 7	ND	ND	3 6 J	ND	2 3	1 1
7917-15	08/21/18	16:39	08/22/18	16:22	65	ND	1 1	ND	7 1	0 85	0 69 J	2 3	1 9	ND	ND	2 4	0 45	ND	ND	13	ND	ND	ND	0 71	ND	ND	3 7	4 7	1 8	1 2	0 37	1 7	5 2	ND	1 6	ND	ND	ND	5 8 J	ND	1 8	ND
7917-17	08/22/18	08:19	08/23/18	08:02	200	ND	9 1	ND	34	ND	0 62 J	2 2	1 6	7 2	ND	1 8	9 8	ND	ND	67	13	ND	10	23	2 1	3 2	2 7	70	2 9	1 8	ND	15	47	ND	15	9 9	2 3	6 0	ND	ND	46	13
7917-20	08/22/18	08 54	08/23/18	08:21	44	ND	1 3	ND	8 7	ND	0 61 J	1 0	1 5	ND	ND	2 4	0 17	ND	ND	8 4	ND	ND	0 89	2 2	ND	ND	ND	12	1 8	ND	0 61	8 6	10	ND	1 6	ND	ND	1 1	4 8 J	ND	2 3	ND
7917-21	08/22/18	10:29	08/23/18	10:00	61	ND	2 3	0 96	7 6	ND	ND	1 7	3 3	ND	ND	2 0	1 2	ND	ND	3 8	1 2	ND	0 97	1 9	ND	ND	ND	210	6 6	1 2	ND	ND	9 3	ND	3 3	1 6	ND	1 2	6 9 J	ND	4 5	1 4
7917-22	08/22/18	11 00	08/23/18	10:35	70	ND	0 65	ND	6 3	ND	ND	0 39	1 4	ND	ND	2 4	5 1	ND	ND	43	ND	ND	ND	0 94	ND	ND	ND	17	3 1	ND	0 44	ND	4 7	ND	2 4	ND	ND	ND	3 8 J	ND	ND	ND
7917-25	08/22/18	12 57	08/23/18	12:12	92	ND	0 90	ND	6 9	ND	0 66 J	1 6	1 8	ND	ND	2 4	1 8	ND	ND	8 7	1 4	ND	ND	0 82	ND	1 6	ND	72	1 4	2 1	ND	3 3	8 5	ND	1 8	1 0	ND	1 2	5 0 J	0 15 J	3 2	1 3

TABLE 16 (Continued)

SUMMARY OF INDOOR AIR AND AMBIENT AIR SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

EPA Sample ID	Sample Collection				VOCs (µg/m³)																																			
	Start		End																																					
	Date	Time	Date	Time	Acetone	Allyl Chloride	Benzene	1,3-Butadiene	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Chloromethane	Cyclohexane	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Dichloroethene	*trans*-1,2-Dichloroethene	Ethyl Acetate	Ethyl Benzene	4-Ethyltoluene	Heptane	Hexane	2-Hexanone	Methylene Chloride	MIBC	2-Propanol	Propene	Styrene	PCE	Tetrahydrofuran	Toluene	1,1,1-Trichloroethane	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Vinyl Acetate	Vinyl Chloride	m and/or p-Xylene	o-Xylene
7917-27	08/22/18	15:10	08/23/18	14:50	290	9 6	8 5	ND	11	1 4	0 71 J	3 2	2 5	8 4	ND	2 2	0 41	ND	ND	85 J	8 4 J	ND	10	28	ND	2 4	4 0 J	28	4 8	1 8 J	7 2 J	0 67 J	42 J	ND	1 8	8 9 J	2 5 J	25	ND	ND	30 J	11 J
Ambient Air																																								
7782-6	03/20/18	08:32	03/21/18	08:04	4 7	ND	0 33	ND	ND	ND	0 64 J	ND	1 7	ND	ND	3 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 41	ND	ND	ND	ND	ND	1 8	ND	ND	ND	ND	ND	ND	ND
7782-8	03/20/18	09:24	03/21/18	08:40	4 0	ND	0 32	ND	ND	ND	0 64 J	0 12	1 8	ND	ND	3 6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 9	ND	ND	ND	ND	ND	ND	ND
7782-24	03/21/18	15 05	03/22/18	14:06	3 3	ND	0 26	ND	ND	ND	0 55	ND	1 4	ND	ND	2 9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 5	ND	ND	ND	ND	ND	ND	ND
7917-8	08/21/18	10:48	08/22/18	10:09	13	ND	0 587	ND	ND	ND	0 64 J	0 13	1 3	2 8	ND	2 6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 58	ND	ND	ND	1 4 J	ND	1 6	ND	ND	ND	0 85 J	ND	ND	ND
7917-19	08/22/18	08:20	08/23/18	08:03	15	ND	1 0	ND	3 8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 2	ND	1 4	1 2	ND	ND	ND	4 6	ND	3 9	ND	ND	21	ND	ND	1 8	ND	10	ND	ND	5 1	1 8
7917-24	08/22/18	11 04	08/23/18	10:38	8 7	ND	0 48	ND	ND	ND	0 60 J	0 19	1 2	ND	ND	2 6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 45	ND	ND	ND	4 3	ND	1 5	ND	ND	ND	ND	ND	ND	ND
SCDM SsI CR					NE	NE	0 35	NE	NE	NE	0 47	0 12	NE	NE	0 25	NE	0 11	NE	NE	NE	1 1	NE	NE	NE	100	100	NE	NE	NE	NE	10 8	NE	NE	NE	NE	NE	NE	NE	NE	0 17	NE	NE
SCDM SsI NCR					32,000	NE	30	NE	5,000	700	100	100	NE	NE	800	NE	7 3	200	800	NE	1,000	NE	NE	NE	600	600	NE	NE	NE	1,000	41 7	NE	5,200	5,000	1,000	NE	NE	NE	200	100	100	100
RSL - Residential					3,200	NE	0 36	0 094	520	73	0 47	0 12	9 4	630	0 26	100	0 11	210	NE	7 3	1 1	NE	42	73	63	100	NE	21	3,100	100	4 2	NE	520	5,200	NE	6 3	6 3	NE	210	0 17	10	10
RSL - Industrial					14,000	NE	1 6	0 41	2,200	310	2 0	0 53	39	2,600	1 1	440	0 47	880	NE	31	4 9	NE	180	310	260	1,200	NE	88	13,000	440	18	NE	2,200	22,000	NE	26	26	NE	880	2 8	44	44
RML - Residential					32,000	NE	31	6 3	5,200	730	47	12	94	6,300	26	310	11	630	NE	73	110	NE	420	730	630	1,900	NE	210	9,400	1,000	42	NE	5,200	16,000	NE	63	63	NE	630	17	100	100
RML - Industrial					1 4E+5	NE	130	26	22,000	3,100	200	53	390	26,000	110	1,300	47	2,600	NE	310	490	NE	1,800	3,100	2,600	7,900	NE	880	39,000	4,400	180	NE	22,000	66,000	NE	260	260	NE	2,600	280	440	440

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

CR	Cancer Risk	NE	Not established
EPA	U.S. Environmental Protection Agency	PCE	Tetrachloroethene
ID	Identification	RML	Removal Management Level
J	Estimated value	RSL	Regional Screening Level
MIBC	Methyl isobutyl carbinol	SCDM	Superfund Chemical Data
µg/m³	Micrograms per cubic meter	SsI	Subsurface intrusion
NCR	Non-Cancer Risk	VOC	Volatile organic compound
ND	Not detected		

4.6 SUB-SLAB VAPOR SAMPLES

In the 20 sub-slab vapor samples collected during March 19-21 and August 21-22, 2018 (two sampling events), 30 VOCs were detected. PCE was detected in 10 sub-slab vapor samples at concentrations ranging from 0.80 to 1,100 μg/m^3. One sample (7917-16, collected from the basement port at 3412 Crown Point Circle in August 2018) contained PCE at 1,100 μg/m^3, above the EPA residential sub-slab VISL of 360 μg/m^3. PCE had not been detected in the sample collected at this location during the previous sampling event in March 2018 (7782-25). Chloroform was detected in one sample (7917-7, collected from the basement port at 4250 Middle Road on August 22, 2018) at a concentration of 8.3 μg/m^3, above the EPA residential sub-slab VISL of 4 μg/m^3. Chloroform concentration had been below the EPA residential sub-slab VISL in the sample collected there during the previous sampling event in March 2018 (7782-5). TCE was not detected in any sub-slab vapor sample. Vapor intrusion sample results are shown on Figure 10 in Appendix A. A summary of analytical results from the sub-slab samples collected is in Table 17 below. The complete laboratory data packages for ASR 7782 and 7917 are in Appendix G.

TABLE 17

SUMMARY OF SUB-SLAB VAPOR SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

EPA Sample ID	Sample Collection				VOCs (µg/m³)																											
	Start		End																													
	Date	Time	Date	Time	Acetone	Benzene	2-Butanone	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Chloromethane	Cyclohexane	Dichlorodifluoromethane	1,2-Dichloroethane	Ethyl Acetate	Ethyl Benzene	4-Ethyltoluene	Heptane	Hexane	Methylene Chloride	4-Methyl-2-Pentanone	2-Propanol	Propene	Styrene	PCE	Tetrahydrofuran	Toluene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Vinyl Acetate	m and/or p-Xylene	o-Xylene
7782-1	03/19/18	15:15	03/20/18	14:39	5 5	0 56	ND	ND	0 63 J	ND	ND	ND	3 2	ND	ND	2 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9 1	1 9	5 4 J	ND	ND	0 85 J	12	3 5
7782-5	03/20/18	08:18	03/21/18	08 00	4 0	0 39	ND	ND	0 59 J	0 47	ND	ND	3 2	ND	ND	1 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6 6	1 8	4 0 J	ND	ND	1 2 J	8 5	2 5
7782-9	03/20/18	09:20	03/21/18	08:37	15	2 6	ND	ND	0 55 J	0 18	0 65	1 3	3 2	0 35	ND	3 6	ND	2 8	6 8	ND	ND	0 77 J	3 1	ND	ND	ND	18	4 5	6 2 J	1 2 J	1 2	1 3 J	14	4 4
7782-11	03/20/18	10:17	03/21/18	09:24	27	4 9	24	ND	0 67 J	0 42	1 5	0 76	5 1	0 12	2 2	3 2	ND	2 1	4 4	8 6	ND	29 J	8 0	1 9 J	21	0 67 J	28	1 7	6 4 J	1 1 J	9 8	ND	13	4 4
7782-13	03/20/18	10:46	03/21/18	09:38	5 0	0 55	2 2	ND	0 54 J	ND	ND	ND	2 6	ND	ND	3 0	ND	ND	ND	ND	ND	0 54 J	ND	ND	ND	ND	11	1 6	8 7 J	1 5 J	ND	2 7 J	16	4 8
7782-16	03/20/18	12:48	03/21/18	11 55	4 4	0 62	ND	ND	0 32	0 32	ND	ND	ND	ND	ND	2 7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11 J	1 5	8 0 J	1 4 J	ND	ND	14	4 3
7782-18	03/20/18	17:18	03/21/18	16:49	3 3	0 50	ND	ND	ND	0 34	ND	ND	ND	ND	ND	2 1	ND	ND	ND	ND	ND	ND	ND	ND	0 80	ND	8 2 J	1 4	5 4 J	ND	ND	1 4 J	11	3 1
7782-20	03/21/18	14:17	03/22/18	13:47	5 7	0 32	2 3 J	ND	ND	ND	ND	ND	2 9	ND	ND	0 93	ND	ND	ND	ND	ND	0 56 J	0 59	ND	ND	ND	3 1 J	1 4	3 7 J	ND	ND	0 91 J	55	1 6
7782-22	03/21/18	14 58	03/22/18	14 01	21	1 7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 9	ND	ND	ND	16 J	ND	ND	ND	ND	ND	ND	ND
7782-25	03/21/18	20:47	03/22/18	19 53	9 8	0 38	2 9 J	ND	0 52	0 35	0 48	ND	2 8	ND	ND	1 6	ND	ND	ND	ND	ND	ND	1 3	ND	ND	ND	5 0 J	1 5	7 0 J	1 1 J	ND	3 0 J	9 3	2 8
7917-2	08/21/18	09:42	08/22/18	09:14	Not Analyzed																											
7917-7	08/21/18	10:45	08/22/18	10:10	16	0 81	4 9	ND	0 42 J	8 3	16	ND	ND	ND	ND	5 9	ND	1 4 J	ND	ND	ND	0 66	ND	ND	39	ND	14 J	2 2	11	2 1	ND	1 4 J	26	7 7
7917-10	08/21/18	11:45	08/22/18	11:15	27	1 5	4 1	ND	0 72 J	0 28	0 53	ND	9 0	ND	ND	5 1	ND	1 2	1 5	3 5	ND	0 87	0 58	ND	36	ND	18	1 7	7 6	1 4	ND	ND	22	6 5
7917-12	08/21/18	12 59	08/22/18	12:32	46	1 1	3 9	ND	0 62 J	0 92	1 0	ND	2 5	1 2	4 2	3 5	ND	1 2 J	0 81	1 4	ND	3 6	ND	ND	18	ND	13 J	1 7	3 5	ND	ND	2 2 J	13	3 9
7917-14	08/21/18	16:13	08/22/18	16 08	65	0 57	4 0	ND	ND	0 54	ND	ND	ND	0 14	ND	3 8	ND	ND	ND	1 2	ND	0 63	ND	ND	32	ND	9 7	1 4	6 3	1 2	ND	0 83 J	17	5 0
7917-16	08/21/18	16:30	08/22/18	16:21	11	0 94	2 2	0 92	0 69 J	2 2	0 92	ND	2 6	0 43	ND	5 6	ND	1 4	0 77	ND	ND	ND	2 3	ND	1,100	ND	12	1 6	11	2 1	ND	1 0 J	25	7 5
7917-18	08/22/18	08:18	08/23/18	08 01	11	0 75	ND	ND	0 58 J	0 24	1 2	ND	2 5	ND	ND	ND	ND	ND	0 89	ND	ND	0 59	0 63	ND	ND	ND	2 3	1 5	ND	ND	ND	ND	ND	ND
7917-23	08/22/18	10 59	08/23/18	10:35	7 7	0 50	ND	ND	ND	ND	ND	ND	ND	ND	ND	4 0	ND	0 96	ND	ND	ND	ND	ND	ND	23	ND	8 6	1 8	8 8	1 7	ND	ND	18	6 1
7917-26	08/22/18	12 56	08/23/18	12:11	75	4 5	4 5	ND	0 32 J	0 26	0 60	4 6	ND	0 20	ND	9 7	4 8	12	12	ND	1 9	2 4	ND	ND	12	ND	49	1 6	18	3 6	9 1	ND	39	14
7917-28	08/22/18	15:10	08/23/18	14 50	13	0 48	25	ND	ND	ND	ND	ND	ND	ND	1 8	3 2	ND	0 89	ND	ND	ND	ND	ND	ND	20	ND	6 5 J	1 5	7 5	1 4	ND	1 2 J	14	5 0
VISL – Residential (cancer risk = 1.0E-6)					1 07E+6	12	1 74E+5	24,300	16	4	3,130	2 09E+5	3,480	4	2,430	37	NE	13,900	24,300	3,380	1 04E+5	6,950	1 04E+5	34,800	360	69,500	1 74E+5	NE	2,090	2,090	NE	6,950	3,480	3,480
VISL – Commercial (cancer risk = 1.0E-6)					4 51E+6	52	7 3E+5	1 02E+5	68	18	13,100	1 46E+5	14,600	16	10,200	164	NE	58,400	1 02E+5	40,900	4 38E+5	29,200	4 38E+5	1 46E+5	1,570	2 92E+5	7 3E+5	NE	8,760	8,760	NE	29,200	14,600	15,000
VISL – Residential (cancer risk = 1.0E-4)					1 07E+6	1,040	1 74E+5	24,300	1,560	407	3,130	2 09E+5	3,480	243	2,430	3,740	NE	13,900	24,300	20,900	1 04E+5	6,950	1 04E+5	34,800	1,390	69,500	1 74E+5	NE	2,090	2,090	NE	6,950	3,480	3,480
VISL – Commercial (cancer risk = 1.0E-4)					4 51E+6	4,380	7 3E+5	1 02E+5	6,810	1,780	13,100	8 76E+5	14,600	1,020	10,200	16,400	NE	58,400	1 02E+5	87,600	4 38E+5	29,200	4 38E+5	1 46E+5	5,840	2 92E+5	7 2E+5	NE	8,760	8,760	NE	29,200	14,600	14,600

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

EPA	U.S. Environmental Protection Agency	µg/m³	Micrograms per cubic meter	PCE	Tetrachloroethene
ID	Identification	ND	Not detected	VISL	Vapor intrusion screening level target sub-slab and near-source soil gas concentration (hazard quotient for non-carcinogens = 1)
J	Estimated value	NE	Not established	VOC	Volatile organic compound

4.7 PRIVATE WELL SAMPLES

Samples were collected at six private drinking water wells during March 21-22 and August 23, 2018. In the eight private well groundwater samples collected over the two sampling events, three metals were detected at concentrations exceeding screening levels. Arsenic (total and dissolved), chromium (dissolved), and manganese (total) were above their respective SCDM CR benchmarks (or Residential RSL for Tap Water if a SCDM CR benchmark had not been established). All other analytes were non-detect in each sample, including PCE and TCE. No private well sample exceeded an MCL. A private well groundwater sample results map is in Appendix A, Figure 11. A summary of analytical results from the private well samples collected is in Table 18 below. The complete laboratory data packages for ASR 7782 and 7917 are in Appendix G.

TABLE 18

SUMMARY OF PRIVATE WELL SAMPLE RESULTS
TANGLEFOOT LANE SITE, BETTENDORF, IOWA

		Metals - Dissolved (µg/L)								Metals - Total (µg/L)						
EPA Sample ID	Sample Date	Arsenic	Barium	Chromium	Copper	Lead	Manganese	Nickel	Zinc	Arsenic	Barium	Copper	Lead	Manganese	Nickel	Zinc
7782-101	03/21/18	4 1	505	2 3	ND	ND	103	4 2	3 9	4 0	553	5 4	ND	99 0	3 6	10 1
7782-101-FD	03/21/18	4 6	518	2 6	ND	ND	103	4 3	3 0	4 1	667	6 0	ND	101	3 8	9 4
7782-102	03/22/18	ND	355	3 2	4 1	ND	83 5	3 6	5 5	ND	363	22 3	ND	76 6	2 98	6 1
7782-103	03/22/18	ND	429	2 5	ND	ND	25 0	4 1	5 9	ND	371	10 6	ND	24 0	3 6	6 0
7782-104	03/22/18	ND	200	3 1	40 0	2 5	6 2	4 7	29 4	ND	214	69 9	4 7	7 5	4 1	57 7
7782-105	03/22/18	ND	296	3 1	5 3	3 3	21 3	5 0	11 8	ND	336	97 6	14 4	431	4 7	37 7
7782-106	03/22/18	3 5	339	ND	ND	ND	144	4 5	13 3	3 3	344	ND	ND	140	5 1	39 9
7917-101	08/23/18	ND	293	5 4	12 7	3 5	130	5 5	19 5	ND	306	10 9	2 5	141	5 3	8 2
RSL for Tap Water		0 052	3,800	NE	800	15	430	390	6,000	0 052	3,800	800	15	430	390	6,000
RML for Tap Water		5 2	11,000	NE	2,400	15	1,300	1,200	18,000	5 2	11,000	2,400	15	1,300	1,200	18,000
SCDM CR		0 051	NE	0 05	NE	NE	NE	NE	NE	0 051	NE	NE	NE	NE	NE	NE
SCDM NCR		6	4,000	60	800	NE	2,800	400	6,000	6	4,000	800	NE	2,800	400	6,000
MCL		10	2,000	100	1,300	15	NE	NE	NE	10	2,000	1,300	15	NE	NE	NE

Notes:

Shaded result exceeds at least one of the listed screening levels.
Only analytes detected in at least one sample are included in the table.

CR	Cancer risk	MCL	Maximum contaminant level	NE	Not established
EPA	U.S. Environmental	µg/L	Micrograms per liter	RML	Removal Management Level
FD	Field duplicate	NCR	Non-cancer risk	RSL	Regional Screening Level
ID	Identification	ND	Not detected	SCDM	Superfund Chemical Data Matrix

4.8 QUALITY CONTROL SAMPLES

QC samples for the SI included one equipment rinsate sample of the decontaminated Geoprobe groundwater sampling apparatus, one water trip blank, and one air trip blank (evacuated Summa canister) for the DPT groundwater and exterior soil gas field samples. One air trip blank accompanied the indoor air, ambient air, and sub-slab soil gas field samples. For sampling of private wells, one field duplicate, two field blanks, and one trip blank accompanied the groundwater samples.

In the equipment rinsate sample (7219-216) 1,4-dioxane was detected at 2.4 µg/L and chloroform was detected at 2.4 µg/L. TCE was detected at 4.67 $\mu g/m^3$ in the air field blank sample (7219-18-FB), in addition to trace amounts of hexane and 1,1,1-TCA. The water field blank sample (7782-113-FB) yielded a trace detection of zinc. The water field blank sample (7917-102-FB) yielded trace detections of chloroform and zinc. No other detections in aqueous or air QA/QC samples occurred.

5.0 HAZARD RANKING SYSTEM FACTORS

This section discusses sources of contamination and contaminant migration pathways evaluated under the HRS.

5.1 SOURCES OF CONTAMINATION

START collected groundwater and surface soil samples within, adjacent to, crossgradient and downgradient of suspected source areas at the site to delineate extents of contamination. Some of the most significant contaminants concentrations detected during SI sampling were associated with PCE, TCE and their respective breakdown products. Analytical results suggest that the main sources of contamination are likely in close proximity to the landfill and oil pit areas of the site where disposal of various substances is known to have occurred (see Appendix A, Figure 2). The landfill was estimated to be 8,850 cubic yards in size and the oil pit encompassed an estimated 667 cubic yards. Hazardous constituents associated with these two sources include: VOCs benzene, chloroethane, 1,4 dichlorobenzene, PCE, TCE, 1,2 DCA, 1,1-DCE, ethylbenzene, naphthalene, toluene, 1,1,1-TCA, and vinyl chloride; several SVOCs including 1,4-dioxane and PAH compounds; the PCB Aroclor 1254; and pesticides dieldrin, aldrin, beta-BHC, p,p'-DDD and p,p'-DDE.

5.2 GROUNDWATER PATHWAY

Section 5.2 discusses groundwater targets and conclusions drawn from analytical results from groundwater samples collected within the last 5 years. Sample results from previous investigative activities indicate that concentrations of the metals arsenic (total and dissolved), chromium, cobalt (total and dissolved), and lead, and the VOCs 1,1-DCA, 1,1-DCE, *cis*-1,2-DCE, TCE, and vinyl chloride exceeded EPA SCDM benchmarks in DPT temporary wells. TCE concentrations were detected as high as 94 and 540 µg/L in two groundwater samples collected in 2015 within the estimated landfill area. During the SI, groundwater samples were collected from 11 DPT temporary wells, mostly south to southeast of the site boundary and on the north edge of the site, to further delineate extent of groundwater contamination. PCE and TCE have not been detected in groundwater samples collected upgradient or downgradient of the site. PCE and TCE contamination in groundwater appears to have remained on site concentrated at the oil pit and estimated landfill area. This estimate is based on data acquired over the last 5 years, during PA and SI activities.

5.2.1 Groundwater Targets

The groundwater exposure pathway is evaluated in part by calculating the number of people served by water wells within 4 miles of the site, and determining whether these people are actually or potentially exposed to contamination associated with the site. According to the IDNR registered well database, 431 wells counted as private wells are within a 4-mile radius of the site (IDNR 2019). The Private Well Tracking System, Iowa Geological Survey Well, and Wells Registered for Testing databases were reviewed to determine the number of private wells (see Appendix B). The median population per household in Bettendorf, Iowa is 2.55 persons, which calculates to approximately 1,100 potential drinking water targets associated with private wells (U.S. Census Bureau 2010). However, this does not include private wells within 4 miles of the site not registered with the State. The source of municipal water in Bettendorf is the Mississippi River (American Water 2015). In six private wells sampled, only metals were detected. The metals found are not thought to be attributable to the sources at the site. A summary of registered drinking water wells (and other water wells) within 4 miles of the site is on Figure 12 in Appendix A.

5.2.2 Groundwater Pathway Conclusions

The groundwater pathway appears to pose a potential threat to public health as a result of a documented release of hazardous substances to groundwater at the site, including metals and PCE/TCE and their breakdown products. Considering the number of wells within a 4-mile radius of the site, drinking water targets impacted by the site could be numerous. All VOC detections in groundwater were found in temporary DPT wells installed on site in the suspected source areas and at one location adjacent to the northwest corner of the site boundary. No VOCs appear to have migrated off site to the east or hydraulically downgradient to the south. Several metals have been detected in groundwater off site, but given their prevalence, are likely naturally occurring. No drinking water well is within 0.25 mile of the site, and no site-related contamination of drinking water wells within 4 miles of the site is known or suspected.

5.3 SURFACE WATER PATHWAY

This section discusses surface water targets and pathway conclusions drawn from analytical results from surface water sampling at the site. During this SI, surface water samples were collected from a creek downgradient of contamination source areas (see Appendix A, Figure 8). Samples indicated several detections of metals. Surface water from this creek eventually discharges into the Mississippi River.

5.3.1 Surface Water Targets

Surface water exposure is evaluated in part by calculating the number of people served by surface water intakes downstream of the site, and determining whether these people are actually or potentially exposed to hazardous substances. The source of municipal water in Bettendorf is the Mississippi River. Intakes for drinking water are known to exist downriver from the site. Additional targets appear to be livestock and aquatic life inhabiting the areas around drainage runoff ditches and ponds downgradient of contamination source areas.

5.3.2 Surface Water Pathway Conclusions

Four surface water samples were collected from the creek running east along the southern boundary of the site. Several significant detections of metals occurred in surface water samples, but the concentrations were low enough that no EPA SCDM benchmarks were exceeded. The source of municipal water in Bettendorf is the Mississippi River, and intakes for drinking water are known to exist downriver from the site. However, it is highly unlikely that contamination at the site has impacted drinking water because contaminant concentrations in downgradient surface water and sediment samples were found to decrease to concentrations similar to those in the upgradient samples. Additionally, distances to the intakes and the large volume of water in the Mississippi River are significant. Therefore, the surface water pathway does not appear to pose a threat to public health.

5.4 SOIL EXPOSURE AND SUBSURFACE INTRUSION PATHWAY

This section discusses subsurface intrusion targets and pathway conclusions drawn from analytical results from soil gas and sub-slab/indoor air sampling at the site. As part of the SI, 13 soil gas, 20 sub-slab soil vapor, and 28 indoor air samples were collected (see Appendix A, Figures 5 and 10). Several VOCs were detected in indoor air samples, including PCE at nine properties at concentrations ranging from 0.34 to 24 µg/m^3. PCE concentrations exceeded the EPA SCDM CR benchmark of 10.8 µg/m^3 in indoor air samples at one residence. PCE was detected in sub-slab samples at eight properties during the SI (one commercial property and seven residences); concentration at one residential building directly south of the site exceeded the EPA residential sub-slab VISL. The owner of this residence ([redacted]) indicated that passive radon systems had been installed at all properties in the Crowne Circle neighborhood.

Surface soil samples collected at the former landfill and oil pit contained elevated concentrations of hazardous constituents, notably pesticides and PCB Aroclor 1254. However, there are no residences within 200 feet of these sources and there is no indication that contamination has migrated off-site.

5.4.1 Subsurface Intrusion Targets

Approximately 50,457 people reside within a 4-mile radius of the site (U.S. Census Bureau 2010). Five elementary schools, one high school, and one child daycare are also within a 4-mile radius, none of which is within 0.25 mile of the site.

5.4.2 Subsurface Intrusion Conclusions

No properties off site are suspected to overlie groundwater contamination from the site. Soil-gas sample results from the SI support assertion of a subsurface source of contamination that appears to be limited to source areas on site. The source of VOC contamination in indoor air and sub-slab vapor samples off site is unknown and is not suspected to be site-related. Therefore, the subsurface intrusion pathway does not appear to pose a threat to public health.

5.5 AIR PATHWAY

This section discusses air targets and pathway conclusions drawn from analytical results from ambient air sampling at the site. As part of the SI, six ambient air samples were collected (see Appendix A, Figures 5 and 10). Sample results indicated detections of multiple VOCs. Ambient air sample results indicated that concentrations of the VOCs benzene, carbon tetrachloride, chloroform, and ethyl benzene exceeded EPA SCDM benchmarks. These detections are not believed to be related to the site. No ambient air samples contained PCE or TCE.

5.5.1 Air Pathway Targets

Approximately 50,457 people reside within a 4-mile radius of the site (U.S. Census Bureau 2010).
The residences nearest to the site are approximately 160 feet south of the site boundary.

5.5.2 Air Pathway Conclusions

The air pathway of HRS addresses outdoor air only. Several VOCs were detected in ambient air samples collected outside in multiple residential areas. However, the source of these contaminants is unknown and is not suspected to be site-related. Therefore, the air pathway does not appear to pose a threat to public health.

6.0 EMERGENCY RESPONSE CONSIDERATIONS

The National Contingency Plan [40 *Code of Federal Regulations* [CFR] 300.415(b) (2)] authorizes EPA to consider emergency response and removal actions at facilities that pose an imminent threat to human health or the environment. For the following reasons, a referral to EPA Region 7 for a removal action may be warranted based on the findings from this SI:

- Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;
- High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, and which may migrate;
- Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

Because this site was formerly used as an unregulated landfill, a variety of contaminants were reported in soil gas, groundwater and soil onsite, some at high concentrations. At this time, contaminants at levels of concern appear to be contained onsite. Although PCE and other chlorinated organic compounds were detected at high levels in DPT groundwater samples, these detections were limited to the source areas on site, and those contaminants do not appear to have migrated off-site. PCE and other chlorinated organic compounds were also reported in numerous indoor air samples. However, none of these concentrations exceeded EPA RMLs. TCE was not detected in any indoor air sample collected.

7.0 SUMMARY

The Tanglefoot Lane site is in Bettendorf, Iowa. It formerly hosted an unpermitted landfill from the 1950s-1970s, and presence of contaminated materials has been documented on site. The site was identified as a potential hazardous waste site and entered into CERCLIS/SEMS as Identification Number IAN000703123. PCE and associated breakdown products have been detected in environmental samples collected at and near the site during past investigations. Main sources of contamination are at or near the landfill and oil pit areas of the site where disposal of various substances is known to have occurred. Contaminants are primarily metals and VOCs (including PCE and its degradation products) detected in soil and groundwater. VOCs have also been detected in soil-gas, sub-slab vapor, indoor air, and ambient air samples collected at or near the site.

Groundwater contamination does not appear to have migrated off site. Several metals were detected at concentrations exceeding their EPA SCDM benchmarks in every groundwater sample including private wells, but presence of these metals is likely naturally occurring. No drinking water wells have been impacted by site-related contamination. VOC contamination in groundwater does not appear to have migrated off site; therefore, the source of VOC detections in indoor air and sub-slab vapor samples is unknown. Potential exposure via the subsurface intrusion pathway is unlikely. Soil and sediment pathways appear to pose a potential threat to the public health of those who reside or work on or near the site. The surface water and air pathways do not appear to pose a threat to public health.

8.0 REFERENCES

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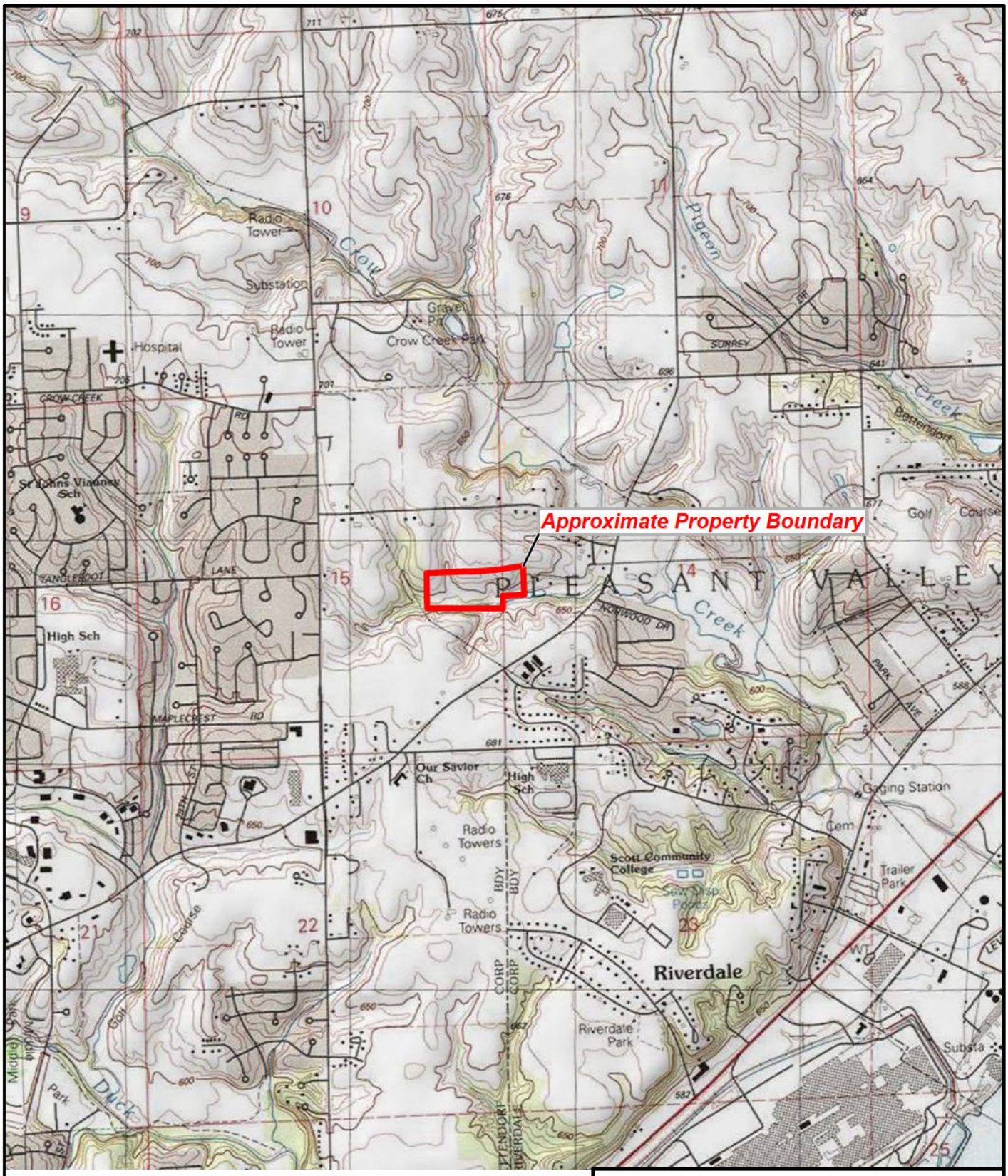
APPENDIX A

FIGURES



Source: USGS Silvis, IA 7 5 Minute Topo Quad, 1991
Scott County Iowa, GIS Map Service, 2015

N

0 1,000 2,000

Feet

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 1
Site Location Map

TETRA TECH

Date 12/6/2019 Drawn By Nick Wiederholt Project No X903019F0086.001

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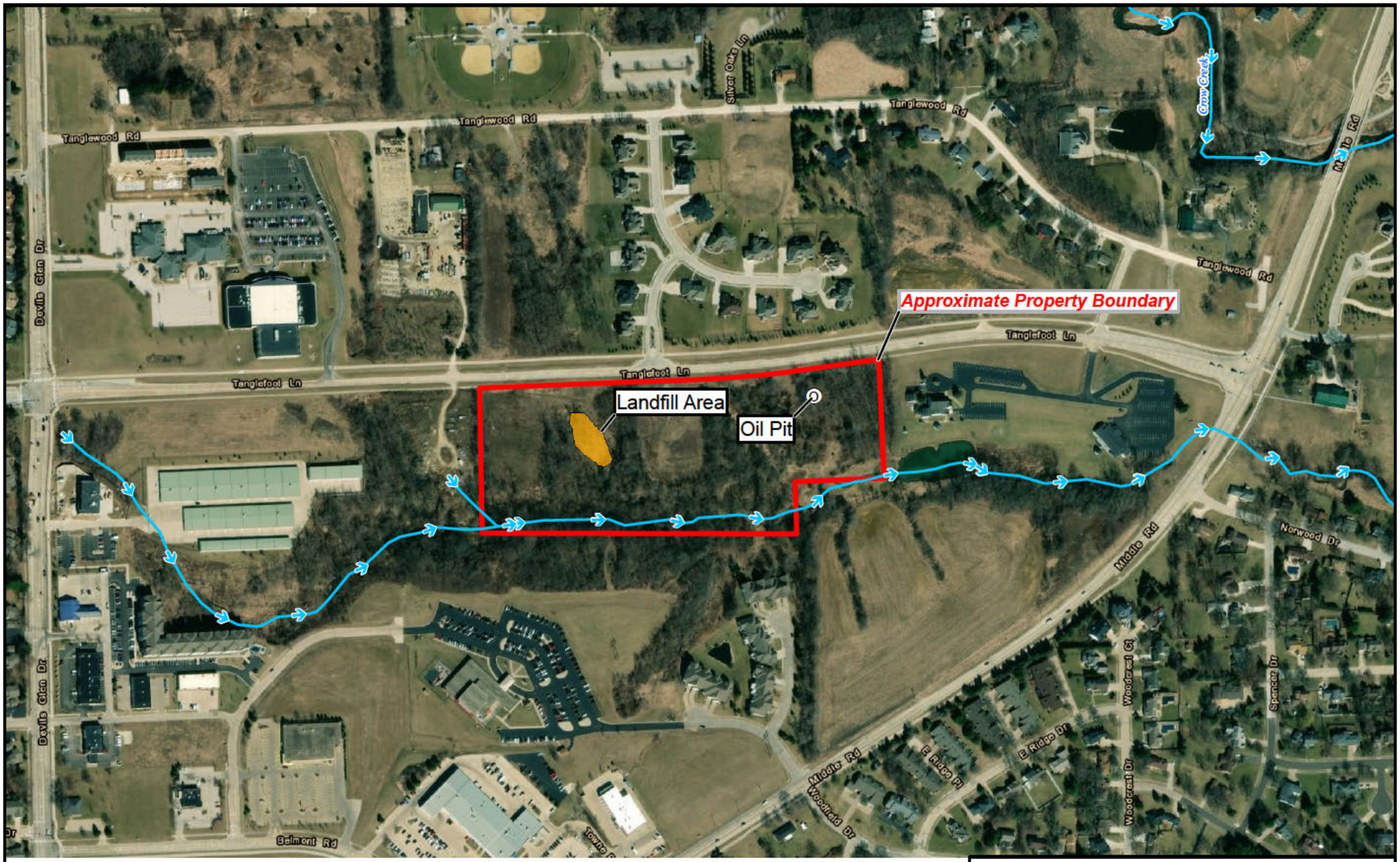

Legend

- Oil pit location
- Creek
- Approximate property boundary
- Estimated landfill area

N

0 250 500

Feet

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 2
Site Layout Map

TETRA TECH

Date 12/6/2019 Drawn By Nick Wiederholt Project No X903019F0086.001

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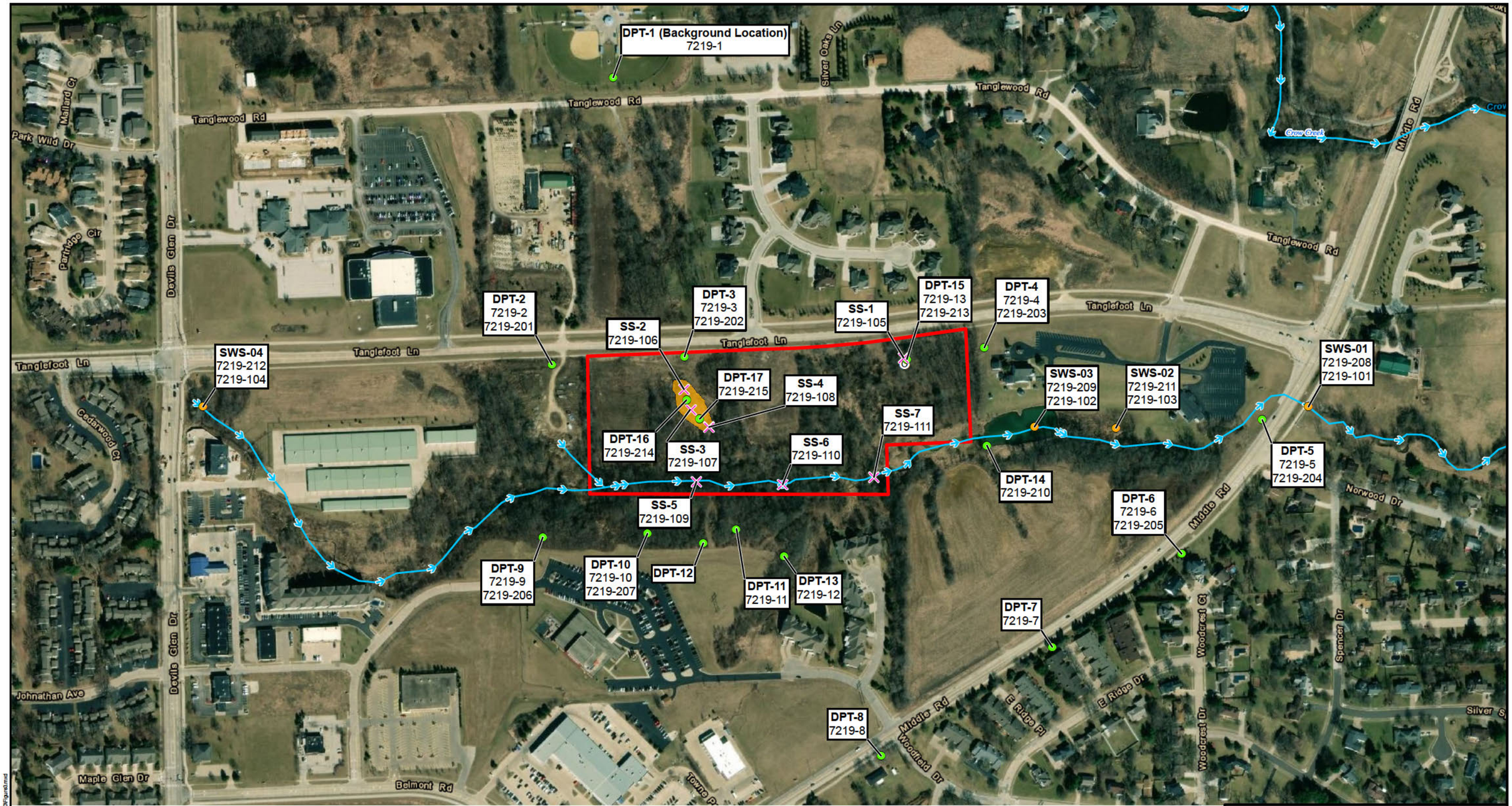


Legend

- DPT groundwater / soil gas sample location
- Surface soil sample location
- Surface water and sediment sample location
- Oil pit location
- Creek
- Approximate property boundary
- Estimated landfill area
- DPT Direct-push technology

N

0 175 350

Feet

Note:
- Samples were collected between October 4 and 7, 2016

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 3
2016 Sample Location Map

TETRA TECH

Date 4/16/2020 Drawn By Nick Wiederholt Project No X903019F0086.001

Legend

- Exterior ambient air sample location
- Indoor air sample location
- Indoor air / sub-slab soil gas sample location
- Private well sample location
- Private well / indoor air / sub-slab soil gas sample location
- Oil pit location
- Creek
- Approximate property boundary
- Estimated landfill area

Note:
- Samples with an ID beginning with "7782" were collected in March 2018
- Samples with an ID beginning with "7917" were collected in August 2018

N

0 240 480

Feet

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

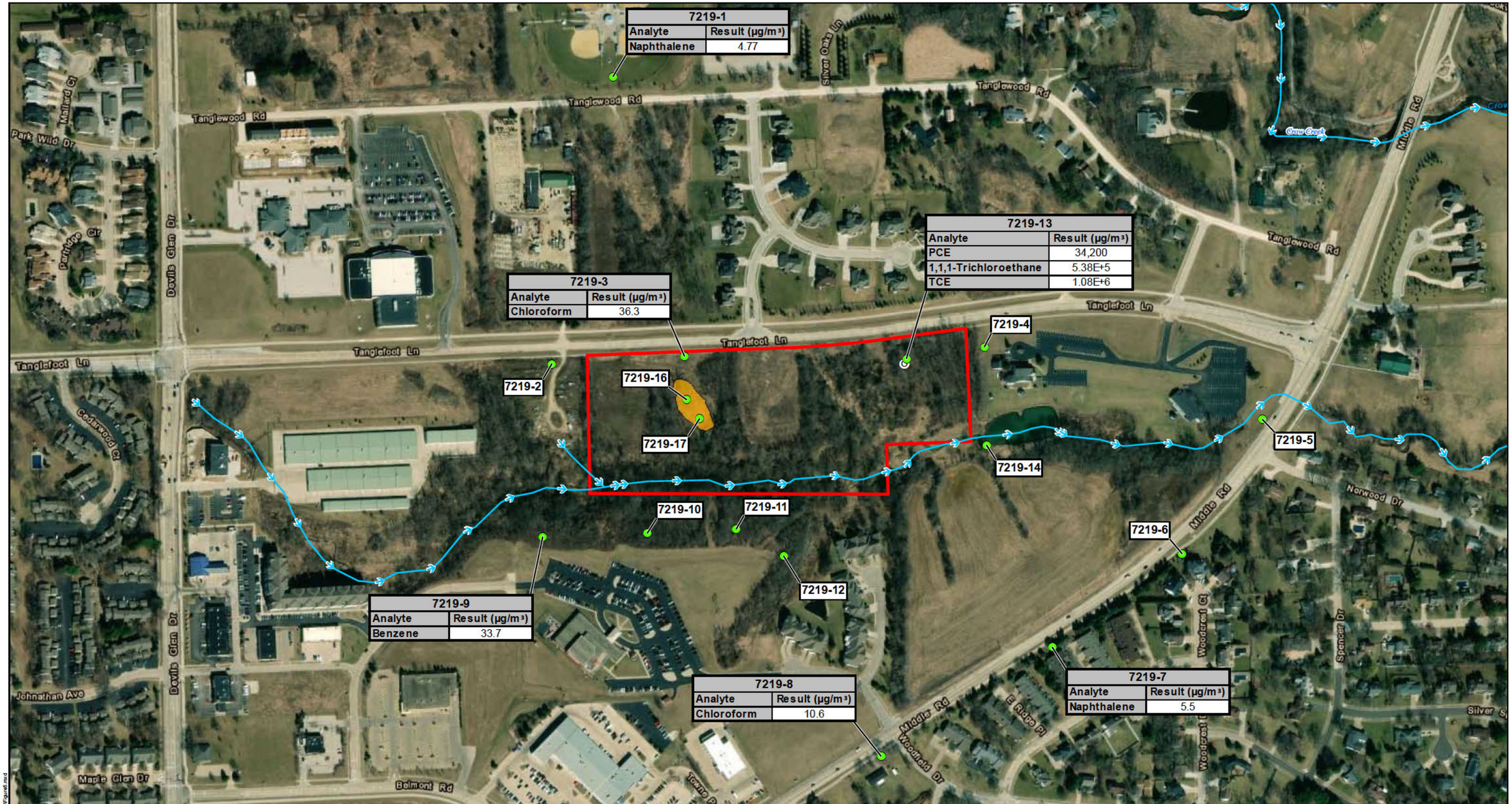
Tanglefoot Lane Site
Bettendorf, Iowa

Figure 4

2018 Sample Location Map

TETRA TECH

Date 4/29/2020 Drawn By Nick Wiederholt Project No X903019F0086.001



Legend

- DPT soil gas sample location
- Oil pit location
- Creek
- Approximate property boundary
- Estimated landfill area

DPT	Direct-push technology
EPA	U.S. Environmental Protection Agency
ft bgs	Feet below ground surface
PCE	Tetrachloroethene
TCE	Trichloroethene
µg/m³	Micrograms per cubic meter

Notes:
- All DPT soil gas samples were collected at 4-5 ft bgs
- Only results exceeding an EPA benchmark are shown

N

0 175 350

Feet

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

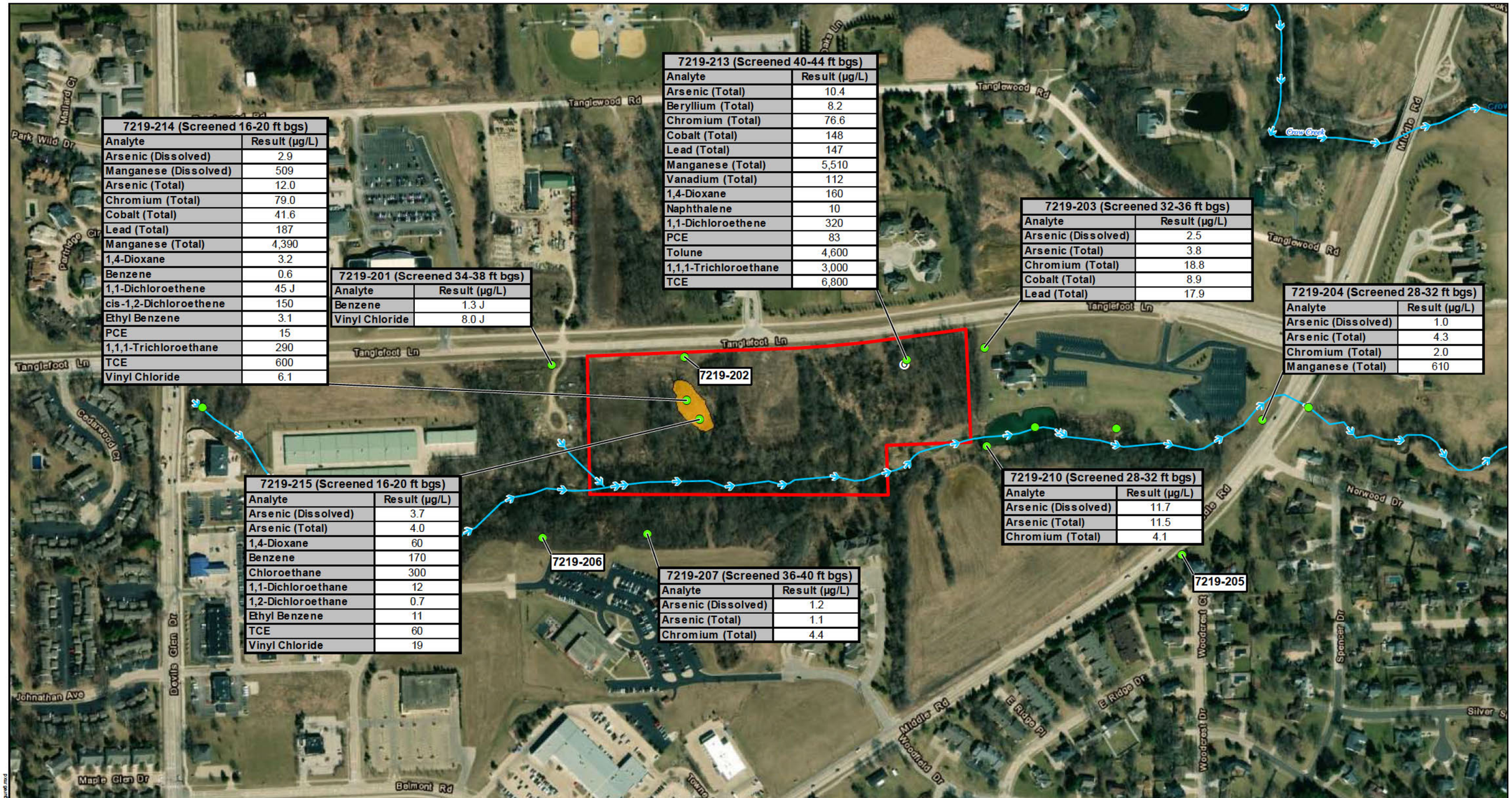
Tanglefoot Lane Site
Bettendorf, Iowa

Figure 5

DPT Soil Gas Results Map

TETRA TECH

Date 4/29/2020 | Drawn By Nick Wiederholt | Project No X903019F0086.001



7219-214 (Screened 16-20 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	2.9
Manganese (Dissolved)	509
Arsenic (Total)	12.0
Chromium (Total)	79.0
Cobalt (Total)	41.6
Lead (Total)	187
Manganese (Total)	4,390
1,4-Dioxane	3.2
Benzene	0.6
1,1-Dichloroethene	45 J
cis-1,2-Dichloroethene	150
Ethyl Benzene	3.1
PCE	15
1,1,1-Trichloroethane	290
TCE	600
Vinyl Chloride	6.1

7219-201 (Screened 34-38 ft bgs)	
Analyte	Result (µg/L)
Benzene	1.3 J
Vinyl Chloride	8.0 J

7219-213 (Screened 40-44 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Total)	10.4
Beryllium (Total)	8.2
Chromium (Total)	76.6
Cobalt (Total)	148
Lead (Total)	147
Manganese (Total)	5,510
Vanadium (Total)	112
1,4-Dioxane	160
Naphthalene	10
1,1-Dichloroethene	320
PCE	83
Tolune	4,600
1,1,1-Trichloroethane	3,000
TCE	6,800

7219-203 (Screened 32-36 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	2.5
Arsenic (Total)	3.8
Chromium (Total)	18.8
Cobalt (Total)	8.9
Lead (Total)	17.9

7219-204 (Screened 28-32 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	1.0
Arsenic (Total)	4.3
Chromium (Total)	2.0
Manganese (Total)	610

7219-215 (Screened 16-20 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	3.7
Arsenic (Total)	4.0
1,4-Dioxane	60
Benzene	170
Chloroethane	300
1,1-Dichloroethane	12
1,2-Dichloroethane	0.7
Ethyl Benzene	11
TCE	60
Vinyl Chloride	19

7219-207 (Screened 36-40 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	1.2
Arsenic (Total)	1.1
Chromium (Total)	4.4

7219-210 (Screened 28-32 ft bgs)	
Analyte	Result (µg/L)
Arsenic (Dissolved)	11.7
Arsenic (Total)	11.5
Chromium (Total)	4.1

Legend

- DPT groundwater sample location
- Oil pit location
- Creek
- Approximate property boundary
- Estimated landfill area

DPT	Direct-push technology
EPA	U.S. Environmental Protection Agency
ft bgs	Feet below ground surface
PCE	Tetrachloroethene
TCE	Trichloroethene
µg/L	Micrograms per liter

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Notes:
- Only results exceeding an EPA benchmark are shown

N

0 175 350

Feet

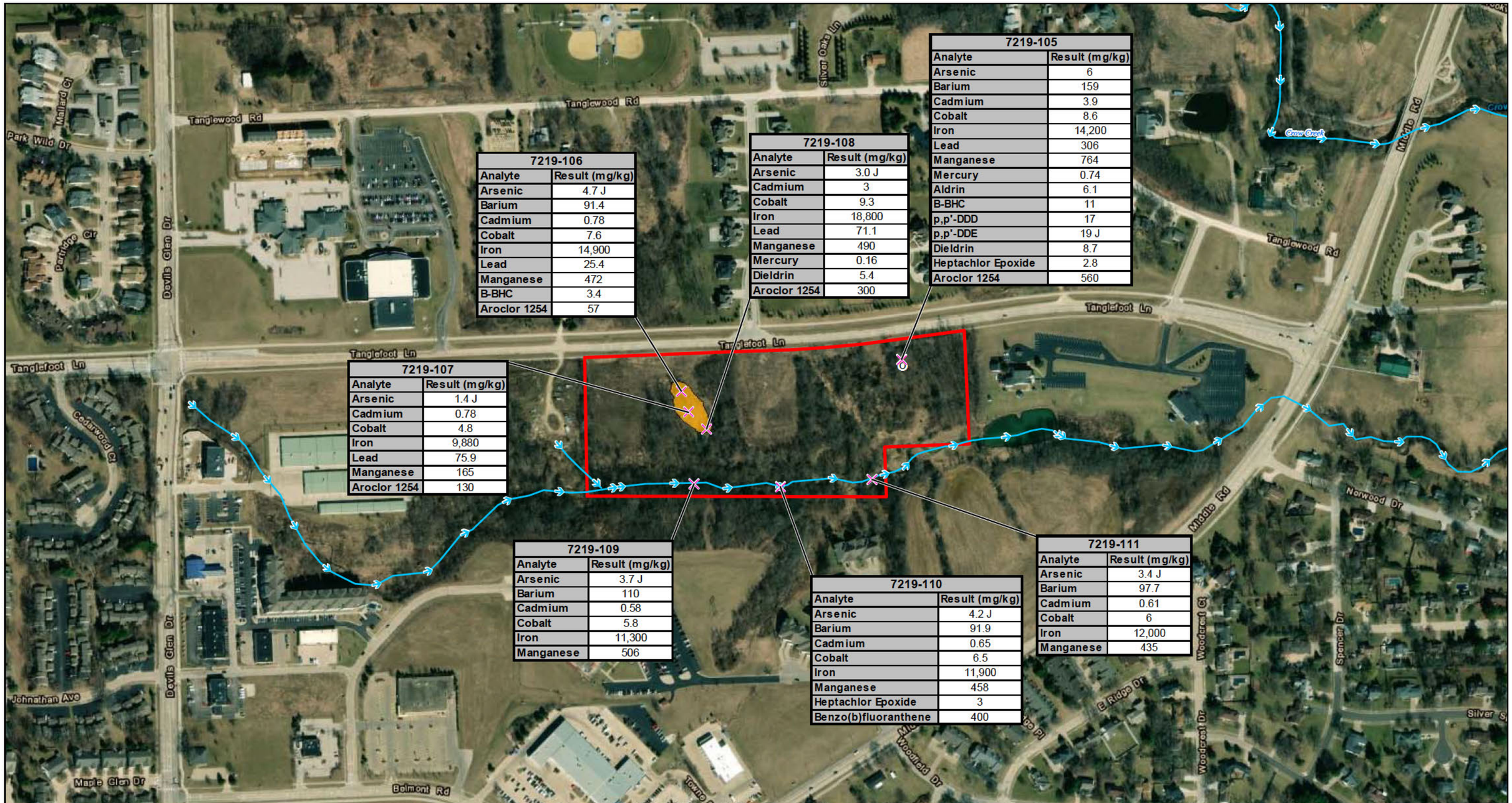
Tanglefoot Lane Site
Bettendorf, Iowa

Figure 6

DPT Groundwater Sample Results Map

TETRA TECH

Date 4/29/2020 Drawn By Nick Wiederholt Project No X903019F0086.001



7219-105	
Analyte	Result (mg/kg)
Arsenic	6
Barium	159
Cadmium	3.9
Cobalt	8.6
Iron	14,200
Lead	306
Manganese	764
Mercury	0.74
Aldrin	6.1
B-BHC	11
p,p'-DDD	17
p,p'-DDE	19 J
Dieldrin	8.7
Heptachlor Epoxide	2.8
Aroclor 1254	560

7219-106	
Analyte	Result (mg/kg)
Arsenic	4.7 J
Barium	91.4
Cadmium	0.78
Cobalt	7.6
Iron	14,900
Lead	25.4
Manganese	472
B-BHC	3.4
Aroclor 1254	57

7219-108	
Analyte	Result (mg/kg)
Arsenic	3.0 J
Cadmium	3
Cobalt	9.3
Iron	18,800
Lead	71.1
Manganese	490
Mercury	0.16
Dieldrin	5.4
Aroclor 1254	300

7219-107	
Analyte	Result (mg/kg)
Arsenic	1.4 J
Cadmium	0.78
Cobalt	4.8
Iron	9,880
Lead	75.9
Manganese	165
Aroclor 1254	130

7219-109	
Analyte	Result (mg/kg)
Arsenic	3.7 J
Barium	110
Cadmium	0.58
Cobalt	5.8
Iron	11,300
Manganese	506

7219-110	
Analyte	Result (mg/kg)
Arsenic	4.2 J
Barium	91.9
Cadmium	0.65
Cobalt	6.5
Iron	11,900
Manganese	458
Heptachlor Epoxide	3
Benzo(b)fluoranthene	400

7219-111	
Analyte	Result (mg/kg)
Arsenic	3.4 J
Barium	97.7
Cadmium	0.61
Cobalt	6
Iron	12,000
Manganese	435

Legend

- Oil pit location
- Surface soil sample location
- Creek
- Approximate property boundary
- Estimated landfill area

DDD Dichlorodiphenyldichloroethane
DDE Dichlorodiphenyldichloroethylene
EPA U.S. Environmental Protection Agency
ft bgs Feet below ground surface
J Estimated result
mg/kg Milligrams per kilogram

Notes:
- All surface soil samples were collected at 0-0.5 ft bgs
- Only results exceeding an EPA benchmark are shown

N

0 175 350
Feet

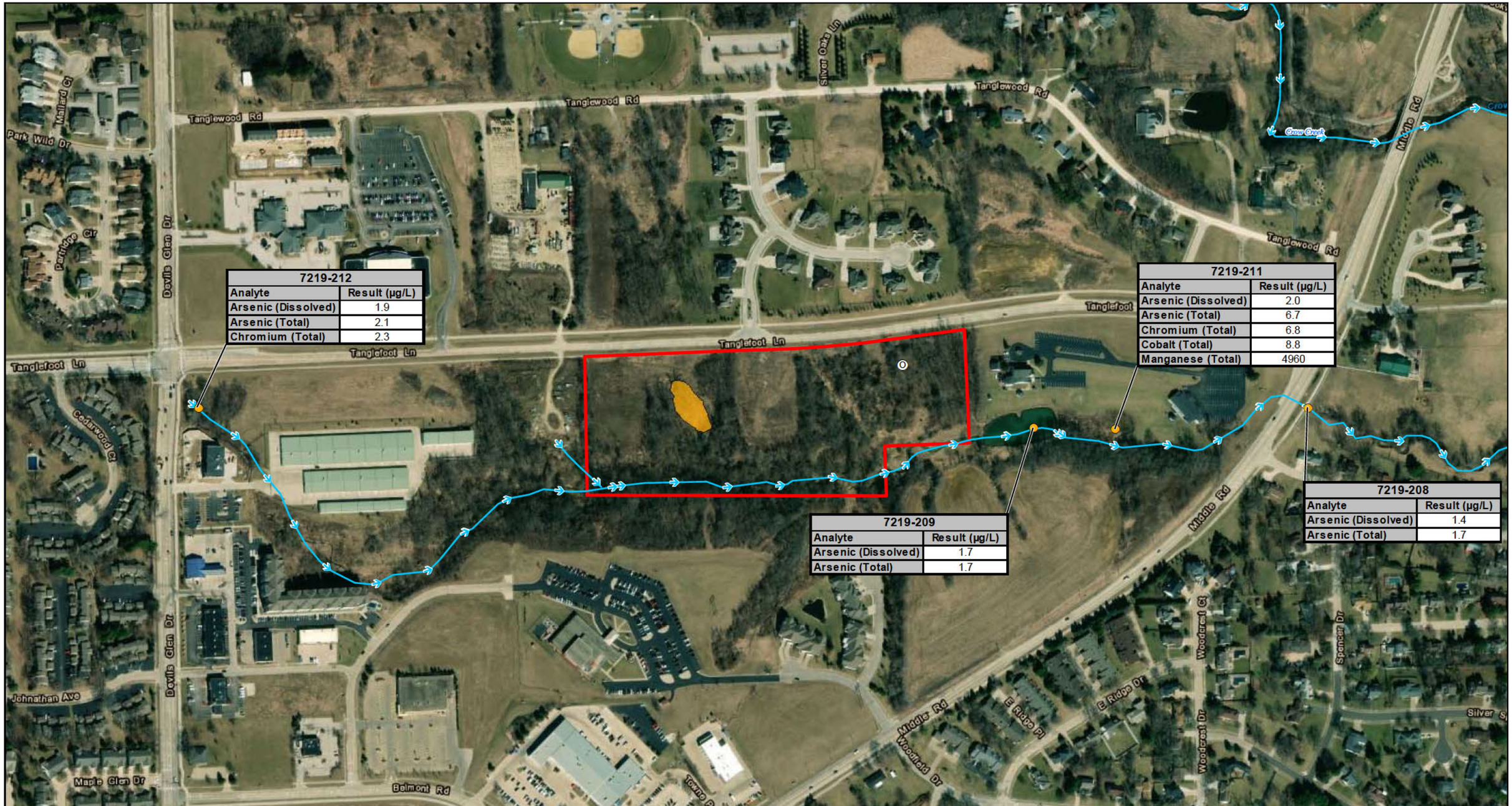
Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 7
Surface Soil Sample Results Map

TETRA TECH

Date 12/6/2019 Drawn By Nick Wiederholt Project No X903019F0086.001



Legend

- Oil pit location
- Surface water sample location
- Creek
- Approximate property boundary
- Estimated landfill area

EPA U.S. Environmental Protection Agency

µg/L Micrograms per liter

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Notes:
- Only results exceeding an EPA benchmark are shown

N

0 175 350

Feet

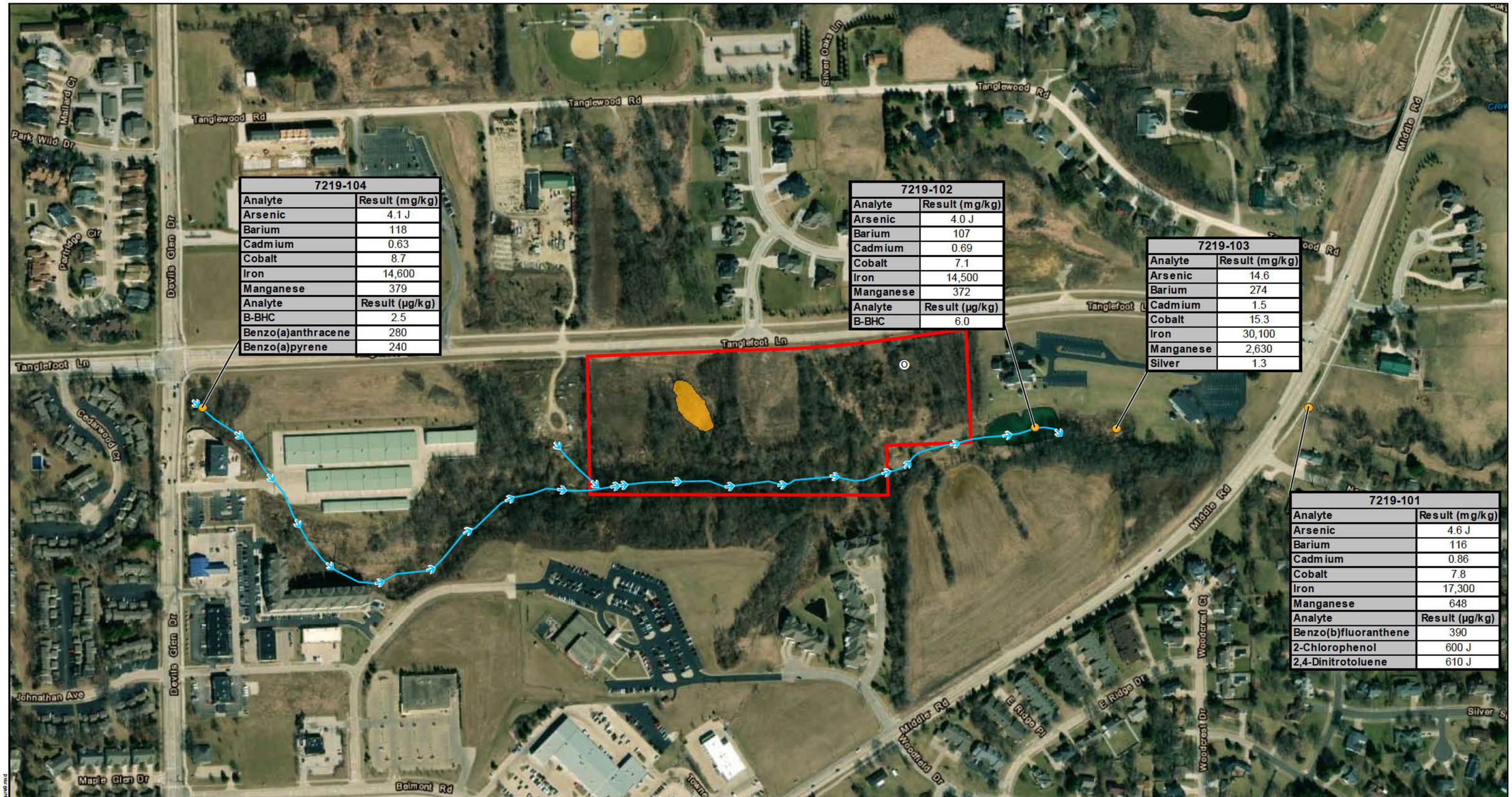
Tanglefoot Lane Site
Bettendorf, Iowa

Figure 8

Surface Water Sample Results Map

TETRA TECH

Date 12/17/2019 Drawn By Nick Wiederholt Project No X903019F0066.001



7219-104	
Analyte	Result (mg/kg)
Arsenic	4.1 J
Barium	118
Cadmium	0.63
Cobalt	8.7
Iron	14,600
Manganese	379
Analyte	Result (µg/kg)
B-BHC	2.5
Benzo(a)anthracene	280
Benzo(a)pyrene	240

7219-102	
Analyte	Result (mg/kg)
Arsenic	4.0 J
Barium	107
Cadmium	0.69
Cobalt	7.1
Iron	14,500
Manganese	372
Analyte	Result (µg/kg)
B-BHC	6.0

7219-103	
Analyte	Result (mg/kg)
Arsenic	14.6
Barium	274
Cadmium	1.5
Cobalt	15.3
Iron	30,100
Manganese	2,630
Silver	1.3

7219-101	
Analyte	Result (mg/kg)
Arsenic	4.6 J
Barium	116
Cadmium	0.86
Cobalt	7.8
Iron	17,300
Manganese	648
Analyte	Result (µg/kg)
Benzo(b)fluoranthene	390
2-Chlorophenol	600 J
2,4-Dinitrotoluene	610 J

Legend

- Oil pit location
- Sediment sample location
- Creek
- Approximate property boundary
- Estimated landfill area

BHC	Hexachlorocyclohexane
EPA	U.S. Environmental Protection Agency
J	Estimated result
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram

Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Notes:
- Only results exceeding an EPA benchmark are shown

N

0 175 350

Feet

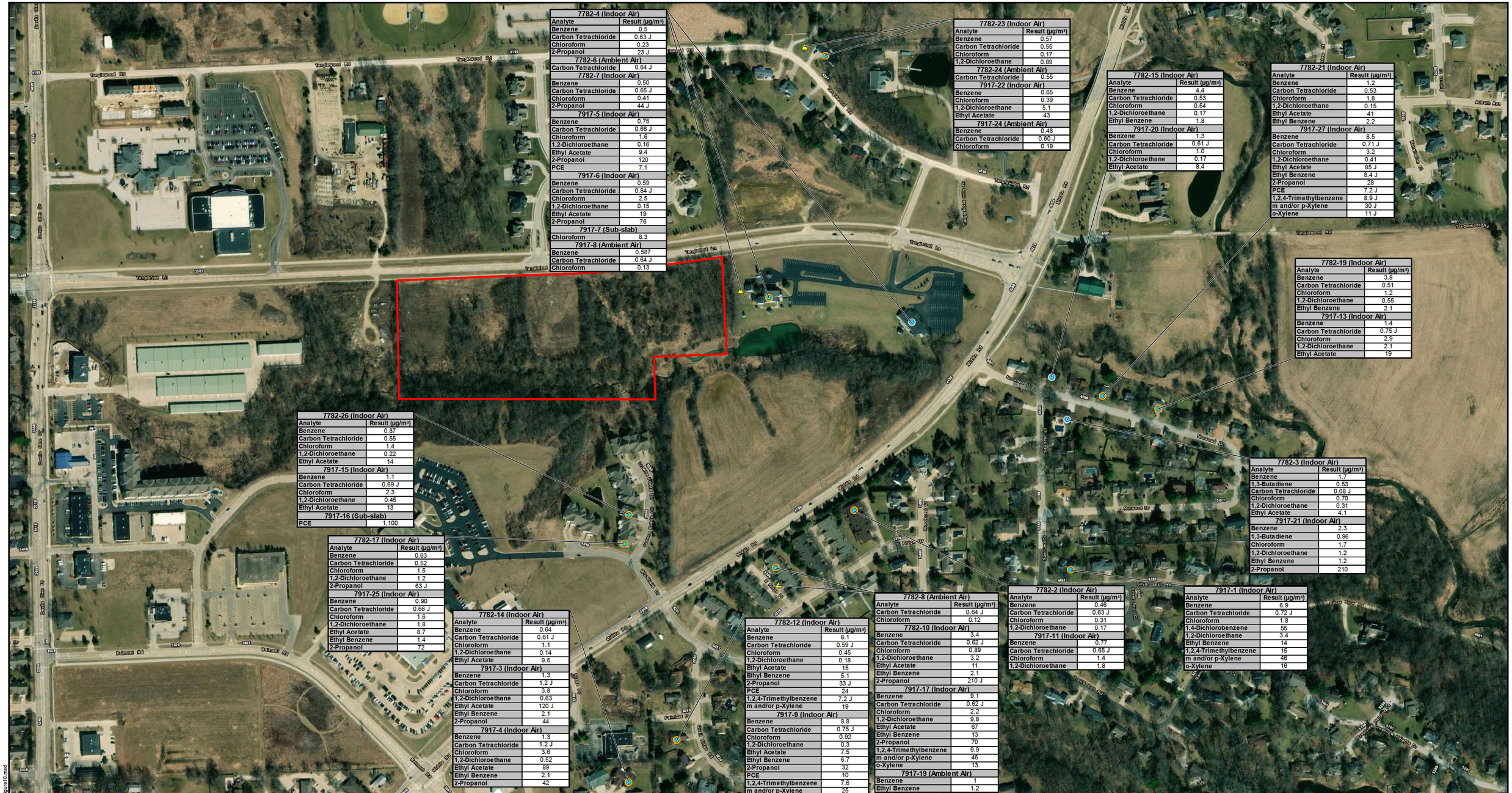
Tanglefoot Lane Site
Bettendorf, Iowa

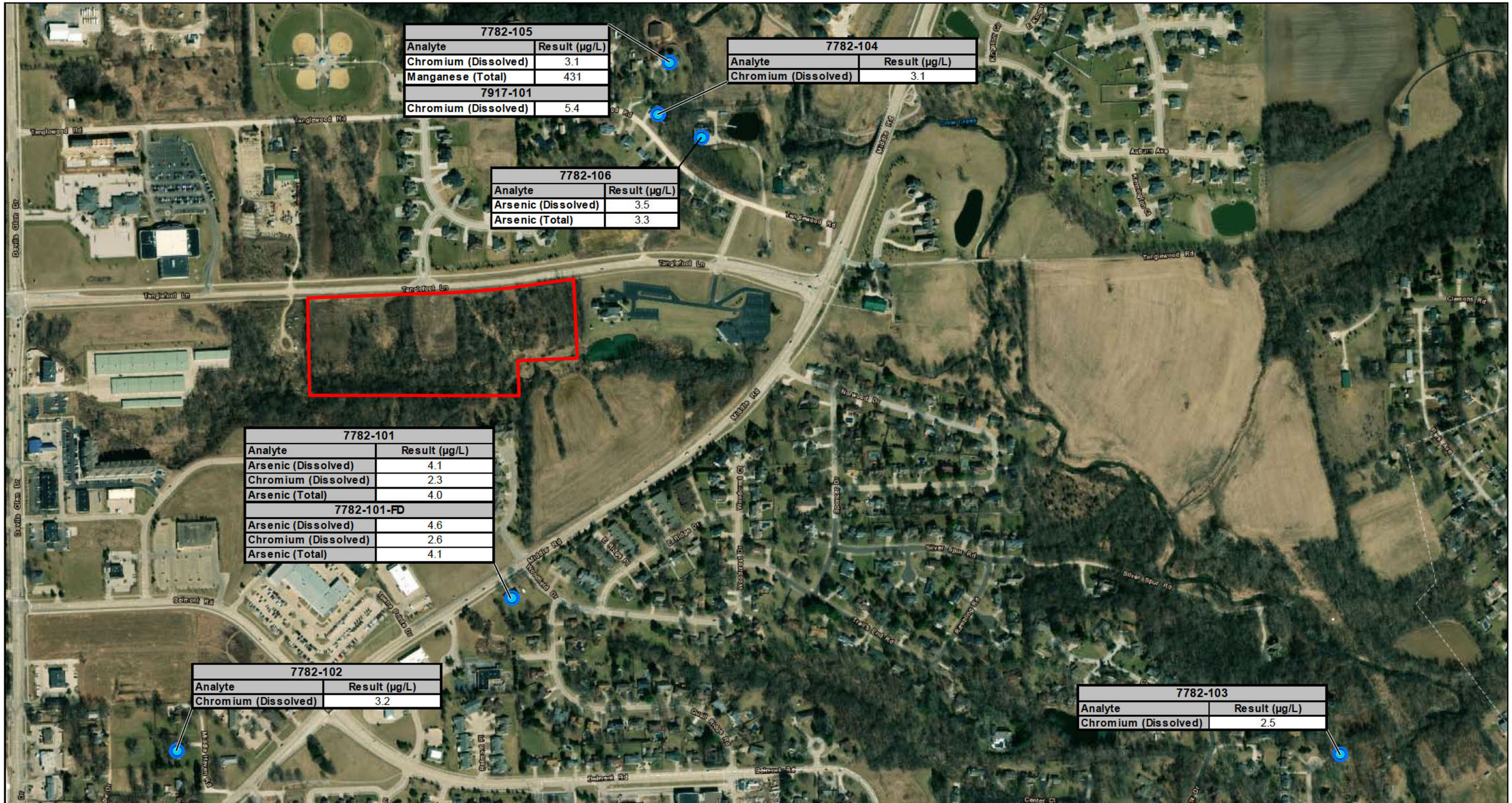
Figure 9

Sediment Sample Results Map

TETRA TECH

Date 4/27/2020 Drawn By Nick Wiederhot Project No X903019F0086.001


Tanglewood Rd
Tanglewood Dr
Tanglewood Ln
Middle Rd
Spruce Hill Dr
Woodcrest Dr
Fairmont Rd
Fairmont Dr
Grandview Ave
Alleyn Ave
Tanglewood Ave
Spruce Hill Rd
Middle Dr
Pleasant Valley Rd
Pleasant Valley Blvd
Kimberly Rd
Kimberly Dr
Middle Rd
Spruce Hill Dr
Woodcrest Dr
Middle Rd
Middle Dr
Fairmont



7782-105	
Analyte	Result (µg/L)
Chromium (Dissolved)	3.1
Manganese (Total)	431
7917-101	
Chromium (Dissolved)	5.4

7782-104	
Analyte	Result (µg/L)
Chromium (Dissolved)	3.1

7782-106	
Analyte	Result (µg/L)
Arsenic (Dissolved)	3.5
Arsenic (Total)	3.3

7782-101	
Analyte	Result (µg/L)
Arsenic (Dissolved)	4.1
Chromium (Dissolved)	2.3
Arsenic (Total)	4.0
7782-101-FD	
Arsenic (Dissolved)	4.6
Chromium (Dissolved)	2.6
Arsenic (Total)	4.1

7782-102	
Analyte	Result (µg/L)
Chromium (Dissolved)	3.2

7782-103	
Analyte	Result (µg/L)
Chromium (Dissolved)	2.5

Legend

- Private well sample location
- Approximate property boundary

µg/L Micrograms per liter

EPA U.S. Environmental Protection Agency

FD Field duplicate

Notes:
- Only results exceeding an EPA benchmark are shown

N

0 250 500

Feet

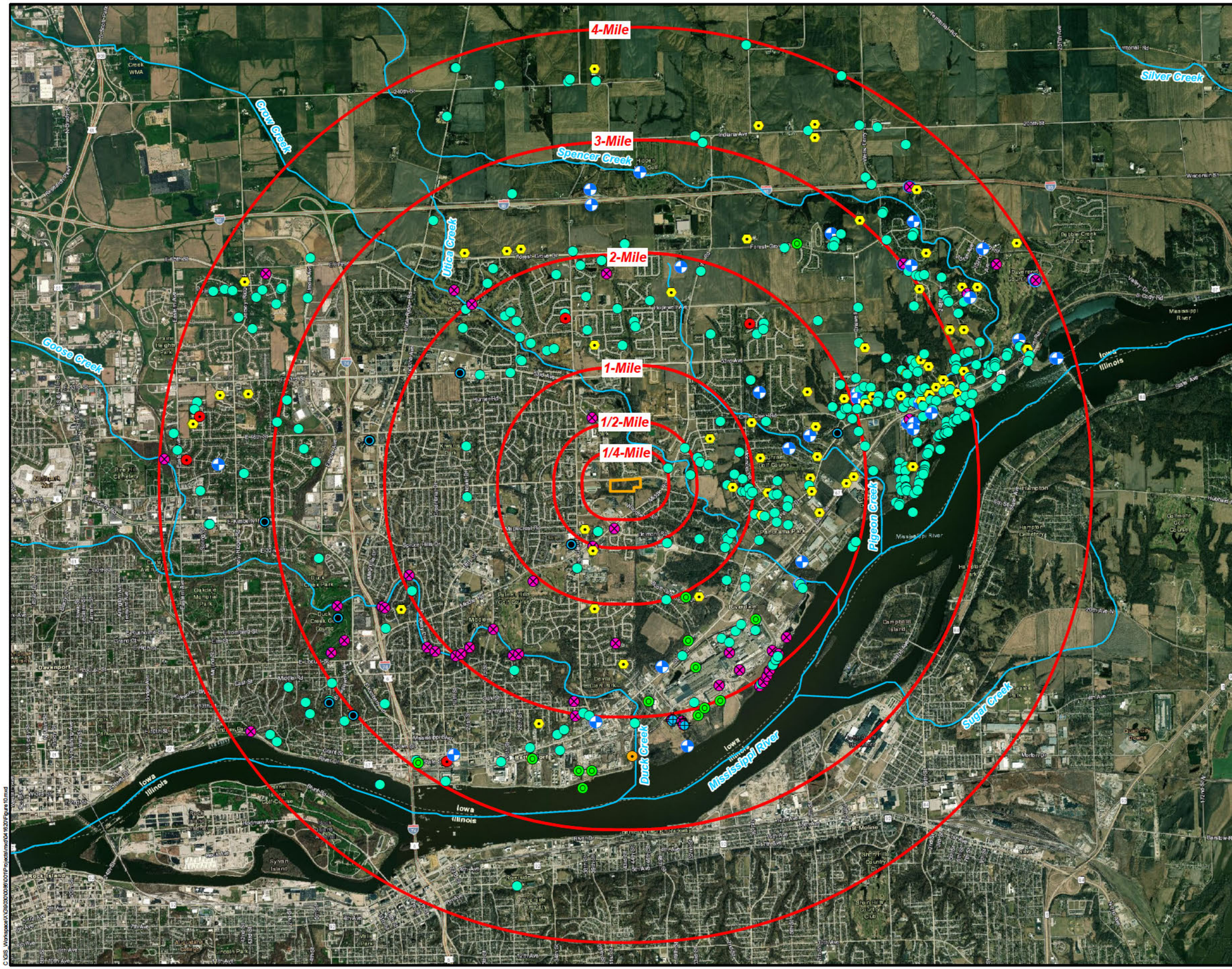
Source: Esri, ArcGIS Online, World Imagery Basemap, Digital Globe, 2018; Scott County Iowa, GIS Map Service, 2015

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 11
Private Well Groundwater Sample Results Map

TETRA TECH

Date 12/17/2019 Drawn By Nick Wiederholt Project No X903019FD086.001



Legend

Registered well location

- Commercial
- Heat pump
- Industrial
- Irrigation
- Monitoring
- Other
- Private
- Public
- Well registered for testing
- Stream/river
- Approximate property boundary
- Radius ring

N

0 2,250 4,500

Feet

Source: Esri, ArcGIS Online, World Imagery, 2016-2018
Esri, Data Maps, Named Streams and Rivers, 2007;
DNR, Iowa Geodata, All Registered Wells in the State of Iowa, 2019

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 12

4-Mile Radius Registered Well Map

TETRA TECH

Date 4/16/2020 Drawn By Nick Wiederholt Project No X903019F0086.001

APPENDIX B

PRIVATE WELLS WITHIN SITE VICINITY

APPENDIX B

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2155165	Private	(b) (9) [redacted]	275	0.25 to 0.5
3128	Private	(b) (9) [redacted]	95	0.25 to 0.5
2099114	Private	(b) (9) [redacted]	300	0.25 to 0.5
2098617	Private	(b) (9) [redacted]	300	0.25 to 0.5
22798	Test	(b) (9) [redacted]	Unknown	0.25 to 0.5
2150841	Private	(b) (9) [redacted]	Unknown	0.5 to 1
2168290	Private	(b) (9) [redacted]	Unknown	0.5 to 1
2181565	Private	(b) (9) [redacted]	125	0.5 to 1
18413	Private	(b) (9) [redacted]	148	0.5 to 1
2083739	Private	(b) (9) [redacted]	80	0.5 to 1
2076320	Private	(b) (9) [redacted]	250	0.5 to 1
18959	Private	(b) (9) [redacted]	235	0.5 to 1
2144628	Private	(b) (9) [redacted]	243	0.5 to 1
2163182	Private	(b) (9) [redacted]	255	0.5 to 1
2139359	Private	(b) (9) [redacted]	150	0.5 to 1
2115367	Private	(b) (9) [redacted]	150	0.5 to 1
2141440	Private	(b) (9) [redacted]	Unknown	0.5 to 1
2144719	Private	(b) (9) [redacted]	150	0.5 to 1
2195874	Private	(b) (9) [redacted]	150	0.5 to 1
2169867	Private	(b) (9) [redacted]	180	0.5 to 1
2133095	Private	(b) (9) [redacted]	200	0.5 to 1
10148	Private	(b) (9) [redacted]	250	0.5 to 1
2117214	Private	(b) (9) [redacted]	250	0.5 to 1
2105530	Private	(b) (9) [redacted]	150	0.5 to 1
2136684	Private	(b) (9) [redacted]	Unknown	0.5 to 1
6667	Test	(b) (9) [redacted]	Unknown	0.5 to 1
49611	Test	(b) (9) [redacted]	Unknown	0.5 to 1
64685	Test	(b) (9) [redacted]	175	0.5 to 1
64546	Test	(b) (9) [redacted]	180	0.5 to 1
2187645	Private	(b) (9) [redacted]	340	1 to 2
2163482	Private	(b) (9) [redacted]	Unknown	1 to 2
2162351	Private	(b) (9) [redacted]	239	1 to 2
2130478	Private	(b) (9) [redacted]	Unknown	1 to 2
2131803	Private	(b) (9) [redacted]	150	1 to 2
2105266	Private	(b) (9) [redacted]	200	1 to 2
2142975	Private	(b) (9) [redacted]	215	1 to 2
2116111	Private	(b) (9) [redacted]	150	1 to 2
36682	Private	(b) (9) [redacted]	322	1 to 2
2113892	Private	(b) (9) [redacted]	150	1 to 2
2173530	Private	(b) (9) [redacted]	40	1 to 2
17279	Private	(b) (9) [redacted]	185	1 to 2
2176868	Private	(b) (9) [redacted]	160	1 to 2
9522	Private	(b) (9) [redacted]	189	1 to 2
2170832	Private	(b) (9) [redacted]	210	1 to 2
2111894	Private	(b) (9) [redacted]	175	1 to 2
2115978	Private	(b) (9) [redacted]	200	1 to 2

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
60285	Private	(b) (9) [redacted]	175	1 to 2
2165701	Private	(b) (9) [redacted]	180	1 to 2
2099113	Private	(b) (9) [redacted]	300	1 to 2
2133884	Private	(b) (9) [redacted]	Unknown	1 to 2
2132938	Private	(b) (9) [redacted]	Unknown	1 to 2
2132958	Private	(b) (9) [redacted]	Unknown	1 to 2
2132949	Private	(b) (9) [redacted]	Unknown	1 to 2
2128868	Private	(b) (9) [redacted]	100	1 to 2
2189702	Private	(b) (9) [redacted]	150	1 to 2
2144606	Private	(b) (9) [redacted]	270	1 to 2
2115371	Private	(b) (9) [redacted]	88	1 to 2
2173790	Private	(b) (9) [redacted]	200	1 to 2
2141478	Private	(b) (9) [redacted]	150	1 to 2
2145243	Private	(b) (9) [redacted]	150	1 to 2
2116120	Private	(b) (9) [redacted]	75	1 to 2
2141147	Private	(b) (9) [redacted]	Unknown	1 to 2
2164164	Private	(b) (9) [redacted]	180	1 to 2
60959	Private	(b) (9) [redacted]	175	1 to 2
2112038	Private	(b) (9) [redacted]	80	1 to 2
2122942	Private	(b) (9) [redacted]	143	1 to 2
2091215	Private	(b) (9) [redacted]	340	1 to 2
2146159	Private	(b) (9) [redacted]	105	1 to 2
50108	Private	(b) (9) [redacted]	195	1 to 2
2114579	Private	(b) (9) [redacted]	150	1 to 2
2104189	Private	(b) (9) [redacted]	150	1 to 2
2195865	Private	(b) (9) [redacted]	150	1 to 2
2176173	Private	(b) (9) [redacted]	160	1 to 2
2119098	Private	(b) (9) [redacted]	200	1 to 2
2127826	Private	(b) (9) [redacted]	Unknown	1 to 2
2106399	Private	(b) (9) [redacted]	70	1 to 2
2126611	Private	(b) (9) [redacted]	242	1 to 2
2123252	Private	(b) (9) [redacted]	113	1 to 2
11362	Private	(b) (9) [redacted]	95	1 to 2
2156162	Private	(b) (9) [redacted]	Unknown	1 to 2
79709	Private	(b) (9) [redacted],	300	1 to 2
10871	Private	(b) (9) [redacted]	200	1 to 2
16175	Private	(b) (9) [redacted]	175	1 to 2
2171417	Private	(b) (9) [redacted]	276	1 to 2
2097990	Private	(b) (9) [redacted]	200	1 to 2
2140183	Private	(b) (9) [redacted]	150	1 to 2
2156809	Private	(b) (9) [redacted]	Unknown	1 to 2
2140789	Private	(b) (9) [redacted]	Unknown	1 to 2
2179635	Private	(b) (9) [redacted]	40	1 to 2
2180381	Private	(b) (9) [redacted]	255	1 to 2
2177368	Private	(b) (9) [redacted]	175	1 to 2
2146560	Private	(b) (9) [redacted]	150	1 to 2

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
50422	Private	(b) (9) [redacted]	255	1 to 2
2137527	Private	(b) (9) [redacted]	Unknown	1 to 2
2152980	Private	(b) (9) [redacted]	202	1 to 2
2083894	Private	(b) (9) [redacted]	180	1 to 2
59244	Private	(b) (9) [redacted]	295	1 to 2
2152975	Private	(b) (9) [redacted]	315	1 to 2
84147	Test	(b) (9) [redacted]	Unknown	1 to 2
19021	Test	(b) (9) [redacted]	270	1 to 2
79104	Test	(b) (9) [redacted]	175	1 to 2
84186	Test	(b) (9) [redacted]	Unknown	1 to 2
38224	Test	(b) (9) [redacted]	175	1 to 2
2785	Test	(b) (9) [redacted]	100	1 to 2
64629	Test	(b) (9) [redacted]	Unknown	1 to 2
22770	Test	(b) (9) [redacted]	Unknown	1 to 2
55708	Test	(b) (9) [redacted]	Unknown	1 to 2
2801	Test	(b) (9) [redacted]	100	1 to 2
84168	Test	(b) (9) [redacted]	Unknown	1 to 2
1917	Test	(b) (9) [redacted]	80	1 to 2
64545	Test	(b) (9) [redacted]	47	1 to 2
10081	Test	(b) (9) [redacted]	198	1 to 2
65031	Test	(b) (9) [redacted]	Unknown	1 to 2
64885	Test	(b) (9) [redacted]	250	1 to 2
6676	Test	(b) (9) [redacted]	200	1 to 2
84105	Test	(b) (9) [redacted]	Unknown	1 to 2
65029	Test	(b) (9) [redacted]	308	1 to 2
64671	Test	(b) (9) [redacted]	105	1 to 2
2802	Test	(b) (9) [redacted]	200	1 to 2
74127	Test	(b) (9) [redacted]	Unknown	1 to 2
59498	Private	(b) (9) [redacted]	235	2 to 3
2153910	Private	(b) (9) [redacted]	Unknown	2 to 3
2093154	Private	(b) (9) [redacted]	100	2 to 3
2083737	Private	(b) (9) [redacted]	180	2 to 3
2139165	Private	(b) (9) [redacted]	Unknown	2 to 3
27842	Private	(b) (9) [redacted]	Unknown	2 to 3
2134639	Private	(b) (9) [redacted]	150	2 to 3
2115550	Private	(b) (9) [redacted]	150	2 to 3
2180400	Private	(b) (9) [redacted]	142	2 to 3
2186170	Private	(b) (9) [redacted]	215	2 to 3
16249	Private	(b) (9) [redacted]	193	2 to 3
2075803	Private	(b) (9) [redacted]	50	2 to 3
2154749	Private	(b) (9) [redacted]	150	2 to 3
2134707	Private	(b) (9) [redacted]	130	2 to 3
2114560	Private	(b) (9) [redacted]	150	2 to 3
2075804	Private	(b) (9) [redacted]	50	2 to 3
2075401	Private	(b) (9) [redacted]	180	2 to 3
2155200	Private	(b) (9) [redacted]	150	2 to 3

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2154702	Private	(b) (9) [redacted]	175	2 to 3
2108715	Private	(b) (9) [redacted]	Unknown	2 to 3
2106042	Private	(b) (9) [redacted]	152	2 to 3
2149842	Private	Unknown	150	2 to 3
17705	Private	(b) (9) [redacted]	140	2 to 3
2134149	Private	(b) (9) [redacted]	Unknown	2 to 3
2116824	Private	(b) (9) [redacted]	150	2 to 3
2180362	Private	(b) (9) [redacted]	295	2 to 3
52530	Private	(b) (9) [redacted]	195	2 to 3
2134700	Private	(b) (9) [redacted]	100	2 to 3
48254	Private	(b) (9) [redacted]	155	2 to 3
2137644	Private	(b) (9) [redacted]	150	2 to 3
2150779	Private	(b) (9) [redacted]	Unknown	2 to 3
27827	Private	(b) (9) [redacted]	Unknown	2 to 3
2152116	Private	(b) (9) [redacted]	235	2 to 3
3358	Private	(b) (9) [redacted]	90	2 to 3
73030	Private	(b) (9) [redacted]	330	2 to 3
2136786	Private	(b) (9) [redacted]	150	2 to 3
2180844	Private	(b) (9) [redacted]	210	2 to 3
2201747	Private	(b) (9) [redacted]	250	2 to 3
2083181	Private	(b) (9) [redacted]	195	2 to 3
2154596	Private	(b) (9) [redacted]	150	2 to 3
12111	Private	(b) (9) [redacted]	195	2 to 3
2172938	Private	(b) (9) [redacted]	275	2 to 3
2161544	Private	(b) (9) [redacted]	Unknown	2 to 3
2083364	Private	(b) (9) [redacted]	150	2 to 3
2095130	Private	(b) (9) [redacted]	100	2 to 3
2089987	Private	(b) (9) [redacted]	200	2 to 3
11502	Private	(b) (9) [redacted]	125	2 to 3
2176621	Private	(b) (9) [redacted]	150	2 to 3
2129414	Private	(b) (9) [redacted]	200	2 to 3
9598	Private	(b) (9) [redacted]	225	2 to 3
17277	Private	(b) (9) [redacted]	140	2 to 3
2185431	Private	(b) (9) [redacted]	170	2 to 3
17664	Private	(b) (9) [redacted]	282	2 to 3
2145244	Private	(b) (9) [redacted]	150	2 to 3
2184960	Private	(b) (9) [redacted]	125	2 to 3
2134730	Private	(b) (9) [redacted]	100	2 to 3
2166653	Private	(b) (9) [redacted]	229	2 to 3
2153731	Private	(b) (9) [redacted]	150	2 to 3
2096274	Private	(b) (9) [redacted]	150	2 to 3
2169292	Private	(b) (9) [redacted]	150	2 to 3
2175941	Private	(b) (9) [redacted]	175	2 to 3
2138583	Private	(b) (9) [redacted]	150	2 to 3
2136465	Private	(b) (9) [redacted]	150	2 to 3
2143371	Private	(b) (9) [redacted]	150	2 to 3

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2152053	Private	(b) (9)	195	2 to 3
2187220	Private		150	2 to 3
2118887	Private		150	2 to 3
2115092	Private		150	2 to 3
11131	Private		252	2 to 3
2134663	Private		100	2 to 3
2136413	Private		150	2 to 3
2180399	Private		255	2 to 3
2138988	Private		200	2 to 3
48042	Private		195	2 to 3
2123595	Private		150	2 to 3
2204489	Private		Unknown	2 to 3
2121723	Private		100	2 to 3
2172716	Private		114	2 to 3
2130579	Private		150	2 to 3
2181538	Private		122	2 to 3
2173237	Private		217	2 to 3
2185436	Private		206	2 to 3
2189299	Private		150	2 to 3
2176769	Private		150	2 to 3
2107054	Private		80	2 to 3
2136302	Private		150	2 to 3
2109079	Private		200	2 to 3
2182417	Private		100	2 to 3
2150219	Private		235	2 to 3
72876	Private		235	2 to 3
2152185	Private		195	2 to 3
2201981	Private		150	2 to 3
2123596	Private		150	2 to 3
2136319	Private		150	2 to 3
2133694	Private		Unknown	2 to 3
2136708	Private		150	2 to 3
2138728	Private		229	2 to 3
2135800	Private		150	2 to 3
2089378	Private		250	2 to 3
2111952	Private		175	2 to 3
2156388	Private		175	2 to 3
2172018	Private		Unknown	2 to 3
2130532	Private		150	2 to 3
2192371	Private		200	2 to 3
2092244	Private		150	2 to 3
2075808	Private		68	2 to 3
2134722	Private		100	2 to 3
2107112	Private		200	2 to 3
2166978	Private		180	2 to 3
15090	Private		245	2 to 3

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2154007	Private	(b) (9)	150	2 to 3
12428	Private		232	2 to 3
2160481	Private		Unknown	2 to 3
2122514	Private		100	2 to 3
2155318	Private		150	2 to 3
2160949	Private		282	2 to 3
2199132	Private		120	2 to 3
2092966	Private		100	2 to 3
2115903	Private		200	2 to 3
2115902	Private		200	2 to 3
2083563	Private		150	2 to 3
2142968	Private		262	2 to 3
73029	Private		250	2 to 3
2177062	Private		150	2 to 3
2075806	Private		200	2 to 3
2199957	Private		130	2 to 3
2136782	Private		150	2 to 3
2179797	Private		100	2 to 3
2177417	Private		210	2 to 3
2134726	Private		100	2 to 3
2077857	Private		200	2 to 3
2153959	Private		150	2 to 3
2075461	Private		60	2 to 3
2115093	Private		160	2 to 3
2083731	Private		60	2 to 3
2186310	Private		201	2 to 3
2136241	Private		150	2 to 3
2149530	Private		150	2 to 3
2136466	Private		150	2 to 3
33966	Test		60	2 to 3
76248	Test		Unknown	2 to 3
84079	Test		Unknown	2 to 3
33908	Test		Unknown	2 to 3
33958	Test		Unknown	2 to 3
49411	Test		Unknown	2 to 3
49413	Test		Unknown	2 to 3
33916	Test		Unknown	2 to 3
65035	Test		Unknown	2 to 3
84174	Test		Unknown	2 to 3
26714	Test		160	2 to 3
2788	Test		200	2 to 3
84092	Test		Unknown	2 to 3
84207	Test		Unknown	2 to 3
84396	Test		Unknown	2 to 3
34014	Test		80	2 to 3
33910	Test		Unknown	2 to 3

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
84117	Test	(b) (9) [redacted]	Unknown	2 to 3
22560	Test		200	2 to 3
2790	Test		200	2 to 3
84065	Test		Unknown	2 to 3
84221	Test		Unknown	2 to 3
33959	Test		110	2 to 3
33968	Test		133	2 to 3
64837	Test		103	2 to 3
64878	Test		Unknown	2 to 3
84223	Test		Unknown	2 to 3
76245	Test		Unknown	2 to 3
84205	Test		Unknown	2 to 3
6668	Test		90	2 to 3
33915	Test		Unknown	2 to 3
84209	Test		Unknown	2 to 3
11911	Test		100	2 to 3
49410	Test		Unknown	2 to 3
84111	Test		Unknown	2 to 3
84204	Test		Unknown	2 to 3
84391	Test		Unknown	2 to 3
54152	Test		45	2 to 3
34038	Test		Unknown	2 to 3
49415	Test		Unknown	2 to 3
84066	Test		60	2 to 3
84139	Test		Unknown	2 to 3
19020	Test		160	2 to 3
33911	Test		Unknown	2 to 3
81289	Test		180	2 to 3
84170	Test		Unknown	2 to 3
11912	Test		120	2 to 3
2198586	Private		280	3 to 4
2172504	Private		357	3 to 4
17665	Private		258	3 to 4
2180363	Private		255	3 to 4
2096029	Private		242	3 to 4
2159283	Private		390	3 to 4
28788	Private		Unknown	3 to 4
2083567	Private		150	3 to 4
79708	Private		250	3 to 4
2134146	Private		Unknown	3 to 4
2194878	Private		315	3 to 4
2117604	Private		90	3 to 4
2139849	Private		282	3 to 4
2167716	Private		255	3 to 4
2083331	Private		200	3 to 4
2095870	Private		255	3 to 4

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2855	Private	(b) (9)	110	3 to 4
16211	Private		280	3 to 4
15196	Private		180	3 to 4
2156803	Private		Unknown	3 to 4
12399	Private		290	3 to 4
2131351	Private		Unknown	3 to 4
2126751	Private		200	3 to 4
2076522	Private		127	3 to 4
2075908	Private		127	3 to 4
2144616	Private		300	3 to 4
2159576	Private		180	3 to 4
2163802	Private		240	3 to 4
3207	Private		145	3 to 4
37955	Private		141	3 to 4
2199799	Private		290	3 to 4
2195484	Private		255	3 to 4
2126322	Private		195	3 to 4
2175436	Private		200	3 to 4
2144635	Private		Unknown	3 to 4
17694	Private		247	3 to 4
8446	Private		189	3 to 4
2075397	Private		200	3 to 4
2106406	Private		300	3 to 4
2168997	Private		215	3 to 4
2118293	Private		75	3 to 4
2162270	Private		200	3 to 4
2162271	Private		180	3 to 4
2174773	Private		200	3 to 4
49973	Private		255	3 to 4
2177646	Private		215	3 to 4
2163145	Private		395	3 to 4
2114162	Private		68	3 to 4
6652	Private		73	3 to 4
2147301	Private		295	3 to 4
2090716	Private		200	3 to 4
11531	Private		195	3 to 4
2118026	Private		180	3 to 4
2075904	Private		222	3 to 4
2115261	Private		200	3 to 4
2127969	Private		Unknown	3 to 4
2136683	Private		Unknown	3 to 4
2127973	Private		Unknown	3 to 4
2159051	Private		150	3 to 4
2180370	Private		262	3 to 4
3266	Private		145	3 to 4
2170616	Private		Unknown	3 to 4

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
2100054	Private	(b) (9)	150	3 to 4
2180201	Private		175	3 to 4
2153258	Private		302	3 to 4
2174775	Private		200	3 to 4
17131	Private		147	3 to 4
2162119	Private		200	3 to 4
2172354	Private		302	3 to 4
2092547	Private		280	3 to 4
2180383	Private		355	3 to 4
2164291	Private		276	3 to 4
2089986	Private		300	3 to 4
2150318	Private		160	3 to 4
1351	Private		300	3 to 4
16164	Private		300	3 to 4
42378	Private		357	3 to 4
2126618	Private		Unknown	3 to 4
2180418	Private		355	3 to 4
54751	Private		355	3 to 4
2169228	Private		275	3 to 4
2117009	Private		200	3 to 4
2133998	Private		200	3 to 4
2172689	Private		322	3 to 4
2175161	Private		282	3 to 4
2152798	Private		Unknown	3 to 4
74010	Test		Unknown	3 to 4
74139	Test		Unknown	3 to 4
26766	Test		199	3 to 4
76231	Test		Unknown	3 to 4
26698	Test		270	3 to 4
60136	Test		Unknown	3 to 4
33906	Test		Unknown	3 to 4
37808	Test		261	3 to 4
84199	Test		Unknown	3 to 4
64626	Test		Unknown	3 to 4
26746	Test		Unknown	3 to 4
60135	Test		Unknown	3 to 4
79109	Test		180	3 to 4
76233	Test		Unknown	3 to 4
53851	Test		180	3 to 4
79115	Test		150	3 to 4
34027	Test		200	3 to 4
74138	Test		Unknown	3 to 4
11917	Test		140	3 to 4
428	Test		140	3 to 4
84125	Test		Unknown	3 to 4
64640	Test		150	3 to 4

APPENDIX B (Continued)

PRIVATE WELLS WITHIN SITE VICINITY

Well Number	Well Type	Location	Well Depth (feet bgs)	Approximate Distance from Site (miles)
65021	Test	(b) (9) [redacted]	Unknown	3 to 4
34000	Test		Unknown	3 to 4
84071	Test		Unknown	3 to 4
22800	Test		200	3 to 4
34040	Test		Unknown	3 to 4
33989	Test		100	3 to 4
84393	Test		100	3 to 4
76228	Test		Unknown	3 to 4
84181	Test		Unknown	3 to 4
84064	Test		200	3 to 4
76246	Test		Unknown	3 to 4
37785	Test		Unknown	3 to 4
84057	Test		Unknown	3 to 4
424	Test		280	3 to 4
33922	Test		Unknown	3 to 4
33998	Test		Unknown	3 to 4
84387	Test		100	3 to 4

Notes:

bgs Below ground surface

APPENDIX C

PHOTOGRAPHIC LOG

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows direct-push technology (DPT) sampling activities at DPT-1 at the Tanglefoot Lane site.	1
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/4/2016

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-2 sampling activities at the Tanglefoot Lane site.	2
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/4/2016

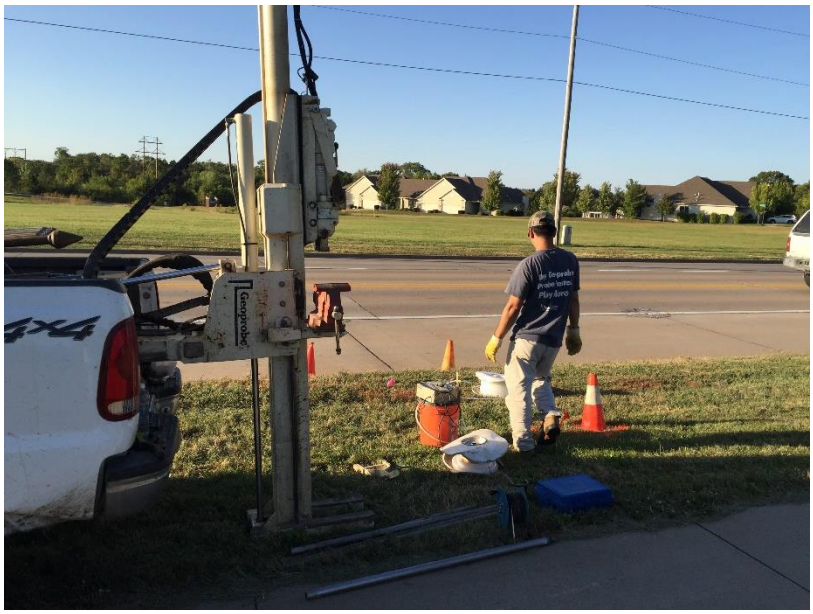
Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-3 sampling activities at the Tanglefoot Lane site.	3
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/5/2016

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-4 soil gas sampling activities at the Tanglefoot Lane site.	4
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/5/2016

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-4 groundwater sampling activities at the Tanglefoot Lane site.	5
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/5/2016



TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-8 sampling activities at the Tanglefoot Lane site.	6
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/5/2016

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows borehole plugging of DPT-9 at the Tanglefoot Lane site.	7
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/6/2016

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-12 sampling activities at the Tanglefoot Lane site.	8
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/6/2016

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows DPT-16 sampling activities at the Tanglefoot Lane site.	9
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/7/2016

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows Geoprobe decontamination activities at the Tanglefoot Lane site.	10
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/7/2016

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows surface soil sampling activities at the Tanglefoot Lane site.	11
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	10/7/2016

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows port installation for sub-slab vapor sampling at the Tanglefoot Lane site.	12
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	3/18/2018

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows a sub-slab vapor sampling location at the Tanglefoot Lane site.	13
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	3/21/2018

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows an indoor air sample collected in a residence at the Tanglefoot Lane site.	14
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	3/21/2018

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows an ambient air sampling location outside of a residence at the Tanglefoot Lane site.	15
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	3/22/2018

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows sub-slab vapor sample collection from a port in a residence at the Tanglefoot Lane site.	16
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	8/21/2018

Tanglefoot Lane Site
Bettendorf, Iowa

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows an ambient air sampling location outside of a residence at the Tanglefoot Lane site.	17
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	8/21/2018

TETRA TECH PROJECT NO. X9030.0086.001	PHOTO DESCRIPTION	This photograph shows an indoor air sample collected from a residence at the Tanglefoot Lane site.	18
	CLIENT	U. S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	[redacted]	8/21/2018

APPENDIX D

LOGBOOK

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CONTENTS

PAGE	REFERENCE	DATE
	SIRA LOG BOOK #1	
	TANGLEFOOT LANE SITE	
	BETTENDORF, IOWA	
	START PM: [redacted]	
	TETRATECH INC.	
	415 OAK ST. KC, MO	
	64106 816-412-1784	
	EPA PM: TODD DAVIS	
	MELINDA LUETKE	

10-3-16 TANGLEFOOT LANE SIRA

1445 [redacted]T, START PM) & [redacted] (TT) ARRIVE IN BETTENDORF, IOWA @ THE CROW CREEK PARK TO MEET MELINDA LUETKE (EPA PM). START PREPS FOR ACCESS ACTIVITIES. BY CONTACTING PROPERTY OWNERS / AGENTS.

1515 MELINDA LUETKE ARRIVES.

1520 ARRIVE @ (b) (6) [redacted] HOME TO HAVE HER SIGN AN ACCESS AGREEMENT. (SITE OWNER)

1535 ARRIVE @ (b) (6) [redacted] HOME TO HAVE HER SIGN AN ACCESS AGREEMENT. (SITE OWNER)

1550 ARRIVE @ BETTENDORF CHRISTIAN CHURCH. TO MEET W/ JENN BENNITT ABOUT SIGNING AN ACCESS AGREEMENT.

1615 START DEPARTS BETTENDORF, IA. & END OF FIELD WORK FOR DAY.

10-3-16 [redacted]

10-4-16 TANGLEFOOT LANE SIRA

0730 Arrive on site. Begin marking sample locations for utility locate. Watkins conducts safety meeting.

0800 Meeting w/ utility locate

1200 Depart site. Purchase field supplies: ice and coolers.

1400 Arrive on site. Seagull arrives on site.

1440 Arrive at DPT-1 (background) lat: 41.565328 lon: -90.477241

1445 Collect sample 7219-1. No groundwater encountered.

1605 Arrive at DPT-2 lat: 41.560696 lon: -90.478347

1620 COLLECT 7219-2.

17~~1~~50 Collect 7219-201, well was unable to produce enough water to collect all samples. VOCs only

1845 Depart site.

[redacted]

Rite in the Rain

10-5-16 TANGLEFOOT LANE SIRA

0700 Arrive on site. [redacted] conducts safety meeting. Mobilize to DPT-3

0710 Arrive at DPT-3
lat: 41.560674 lon: -90.476527

0725 Collect sample 7219-3

0805 Collect sample 7219-202, 40'-44' bgs. Well was unable to produce enough water to collect all samples. VOCs and SVOCs only.

0840 Arrive at DPT-4
lat: 41.560558 lon: -90.472568

0845 Collect sample 7219-4

0920 Collect sample 7219-203, MS/MSD

1140 Arrive at DPT-5
lat: 41.559808 lon: -90.468729

1150 Collect sample 7219-5

1250 Collect sample 7219-204

1340 Arrive at DPT-6
lat: 41.558520 lon: -90.469924

1350 Collect sample 7219-6

1430 Collect sample 7219-205

1500 Arrive at DPT-7
lat: 41.557662 lon: -90.471726

10-5-16 TANGLEFOOT LANE SIRA

1525 COLLECTED 7219-7; 4'-5' BGS
NO GROUNDWATER ENCOUNTERED.

1630 RUSSELL & LUETKE DEPART TO DELIVER SAMPLE COOLERS TO FEDEX FOR SHIPMENT TO REGION 7 ERA LAB.
ARRIVE AT DPT-8. LAT: LONG:

1700 COLLECTED 7219-8; 4'-5' BGS.
NO GROUNDWATER ENCOUNTERED.

1742 ARRIVE AT DPT-9. LAT: 41.55868007° LONG: -90.47858982°

1752 COLLECTED 7219-9; 4'-5' BGS.
Due to sunset, temporary well was left in place overnight

1850 Depart site

[redacted]

Rite in the Rain

10-6-16 TANGLEFOOT LANE SIRA

0700 Arrive on site, DPT-9. [redacted]
Conducts safety meeting.

0730 Collect sample 7219-206
Well unable to produce enough water to collect all samples.
VOCs, SVOCs, TPH, & pesticides were only samples collected.

0830 Arrive at DPT-10.
lat: 41.558698 lon: -90.476837

0840 Collect sample 7219-10; 4'-5' BGS

0920 COLLECT SAMPLE 7219-207; 36'-40' BGS

1005 ARRIVE AT DPT-11.
LAT: 41.55909325° LONG: -90.47631187°

1035 COLLECT SAMPLE 7219-11; 4'-5' BGS
NO GROUNDWATER ENCOUNTERED.
WILL STEP OUT 100' TO ATTEMPT GROUNDWATER. LAT: 41.55862948° LONG: -90.47644925°
(DPT-12)

1245 ARRIVE @ DPT-12 LAT: 41.55862948° LONG: -90.47644925°
NO GROUNDWATER ENCOUNTERED.
COLLECT SAMPLE 7219-208; SWS-1

1300 COLLECT SAMPLE 7219-101; SWS-1

1330 ARRIVE @ DPT-13 LAT: 41.55850170° LONG: -90.47539841°

1342 COLLECT SAMPLE 7219-12; 4'-5' BGS.

10-6-16 TANGLEFOOT LANE SIRA

GROUNDWATER NOT ENCOUNTERED.

1510 ARRIVE @ DPT-14. LAT: 41.55986661° LONG: -90.47251605°

1530 COLLECT SAMPLE 7219-~~102~~ 209; SWS-3

1540 COLLECT SAMPLE 7219-102; SWS-3
GROUNDWATER TOO SHALLOW TO COLLECT SOIL-GAS.

1550 COLLECT SAMPLE 7219-210; 28'-32' BGS
NO SOIL-GAS COLLECTED @ DPT-14.

1630 COLLECT SAMPLE 7219-211; SWS-2

1640 COLLECT SAMPLE 7219-103; SWS-2

1845 ARRIVE @ SWS-4
~~COLLECT SAMPLE 7219~~ →
WILL COLLECT TOMORROW

1920 DEPART SITE. END OF FIELDWORK.

[redacted]

Rite in the Rain

10-7-2016 TANGLEFOOT LANE SIRA

0704 ARRIVE @ DPT-15. LAT: 41.56048532 LONG: -90.47359304

0800 COLLECT SAMPLE 7219-13; 4'-5' BGS

0810 COLLECT SAMPLE 7219-212; SWS-4

0820 COLLECT SAMPLE 7219-104; SWS-4

0900 COLLECT SAMPLE 7219-213; 40'-44' BGS

0930 ARRIVE @ DPT-16. LAT: 41.56018554 LONG: -90.47643769

~~0945 COLLECT 7219-14; 4'-5' BGS~~ AN

1000 COLLECT 7219-105; SS-1 LAT: 41.56045531 LONG: 90.47347681

~~10~~ 1030 COLLECT 7219-214; 16'-20' BGS

GROUND WATER TO SHALLOW TO COLLECT SOIL-GAS SAMPLE @ DPT-16. & DPT-17

1100 ARRIVE @ DPT-17 LAT: LONG:

1115 COLLECT 7219-106; SS-2 LAT: 41.56031488 LONG: -90.476404

1120 COLLECT 7219-215; DPT-17 LAT: LONG: SEE ABOVE

1132 COLLECT 7219-107; SS-3 LAT: 41.56011939 LONG: -90.4765668

1156 COLLECT 7219-108; SS-4 LAT: 41.55995068 LONG: -90.47641556

1218 COLLECT 7219-216; RINSATE BLANK

1230 [redacted] (START) & MINDY LUETKE (EPA)

DEPART BETTENDORF, IA.

1300 DEPART SITE FOR CONFERENCE CALL W/ TODD DAVIS & LUNCH.

1430 ARRIVE @ SS-5 LAT: LONG:

1450 COLLECT 7219-109; SS-5

1510 ARRIVE @ SS-6 LAT: LONG:

10-7-16 TANGLEFOOT LANE SIRA

1523 COLLECT 7219-110; SS-6

1546 ARRIVE @ SS-7; LAT: LONG:

1552 COLLECT 7219-111; SS-7

[redacted]

10-7-16

Rite in the Rain

3-12-18 TANGLEFOOT LANE SIRA

1630 ARRIVE AT (b) (6) [redacted] TO INSTALL VI PORT. PORT IN NE CORNER OF BASEMENT

1700 (b) (4) [redacted] WORKS ON ACCESS.

1820 END OF DAY.

(b) (4) [redacted]

3-13-18 TANGLEFOOT LANE SIRA

1030 ARRIVE AT (b) (6) [redacted] TO INSTALL VI PORT. PORT IN NE CORNER BASEMENT

1110 MOVE TO (b) (6) [redacted] TO INSTALL VI PORT. PORT NEAR FURNACE IN UNFINISHED PORTION OF BASEMENT.

1145 ARRIVE AT (b) (6) [redacted] TO INSTALL VI PORTS. NO PORT INSTALLED IN THE PAVILLION. PORT INSTALL IN STORAGE ROOM IN BASEMENT IN RESIDENCE.

1220 LUNCH

1240 ARRIVE AT (b) (6) [redacted] RORD. TO TALK W/ PROPERTY OWNER

1255 ARRIVE AT (b) (6) [redacted] TO INSTALL VI PORT. PORT INSTALLED IN QUILTING ROOM NEAR STORAGE CLOSET.

1350 ARRIVE AT (b) (6) [redacted] TO SPEAK W/ PROPERTY OWNER. NOBODY HOME.

1400 ARRIVE AT (b) (6) [redacted] TO INSTALL VI PORT. PORT IN WESTERN CORNER OF BASEMENT.

Rite in the Rain

3-19-18 TANGLEFOOT LANE SIRA

1500 ARRIVE AT (b) (6) [redacted]
PORT INSTALLED ALONG NORTH WALL
IN CENTER ROOM IN BASEMENT.

1600 BREAK

1800 ARRIVE AT PROPERTIES WHERE OWNERS
HAVE YET TO REPLY TO ACCESS PHONE
CALLS.

1838 FINISH FOR DAY

(b) (4) [redacted]

3-14-18 TANGLEFOOT LANE SIRA

0930 ARRIVE AT HOMES WHERE OWNERS
HAVE YET TO REPLY TO ACCESS
PHONE CALLS.

1000 ARRIVE AT (b) (6) [redacted]
GOT ACCESS & INSTALLED VI PORT.

1110 PICKED UP HELIUM FROM STORE.

1245 ARRIVE AT (b) (6) [redacted]
INSTALLED VI PORT IN STORAGE ROOM

1330 ARRIVED AT (b) (6) [redacted] TO
CONDUCT LEAK TESTING. NEGATIVE
READING FOR HELIUM.

1400 ARRIVE AT (b) (6) [redacted]
TO CONDUCT LEAK TEST. NEGATIVE
FOR HELIUM.

1422 ARRIVE AT (b) (6) [redacted]
TO CONDUCT LEAK TEST. NEGATIVE
READING FOR HELIUM.

1438 ARRIVE AT (b) (6) [redacted] TO
CONDUCT LEAK TEST. NEGATIVE
READING FOR HELIUM

1500 ARRIVE AT (b) (6) [redacted] TO
CONDUCT LEAK TEST. NEGATIVE
READING FOR HELIUM.

1545 ARRIVE AT (b) (6) [redacted]
CIRCLE TO LEAK TEST. NEGATIVE
READING FOR HELIUM.

Rite in the Rain

3-14-18 TANGLEFOOT LANE SIRA

1600 ARRIVE AT (b) (6) [redacted]
TO INSTALL V1 PORT.

1630 ARRIVE AT (b) (6) [redacted] TO
INSTALL PORT.

1500 END OF DAY.

(b) (4) [redacted]

3-15-18 TANGLEFOOT LANE SIRA

0900 ARRIVE AT (b) (6) [redacted] RD
TO LEAK TEST. NEGATIVE READING
FOR HELIUM.

0920 ARRIVE AT (b) (6) [redacted]
CIRCLE TO LEAK TEST. NEGATIVE
READING FOR HELIUM.

0945 ARRIVE AT (b) (6) [redacted] TO
LEAK TEST. NEGATIVE READING
FOR HELIUM.

1000 ARRIVE AT (b) (6) [redacted]
TO LEAK TEST. NEGATIVE READING
FOR HELIUM.

1030 WATKINS & LUSTIKE DEPART
BETTENDORF.

(b) (4) [redacted]

Rite in the Rain

3-19-18 TANGLEFOOT LANE SIRA

1440 (b) (4) [redacted] ARRIVES AT (b) (6) [redacted]
DRIVES TO SETUP SUMMA CANISTERS.
1515 STARTED COLLECTING 7782-1
1520 " " 7782-2
ALL SAMPLING INFORMATION RECORDED ON FIELD SHEETS. YVONNE SMITH (EPA) ONSITE TO ASSIST W/ SAMPLING ACTIVITIES.
1540 MOVE TO (b) (6) [redacted]
1550 STARTED COLLECTING 7782-3.
1600 WATKINS RETURNS TO HOTEL TO PREP FOR WEEK'S ACTIVITIES.

(b) (4) [redacted]

3-20-18 TANGLEFOOT LANE SIRA

0745 ARRIVE AT (b) (6) [redacted]
0826 STARTING COLLECTING 7782-4
0818 " " 7782-5
0832 " " 7782-6
0839 " " 7782-7
0910 ARRIVE AT (b) (6) [redacted]
0924 START COLLECTING 7782-8
0920 " " 7782-9
0922 " " 7782-10
0956 ARRIVE AT " (b) (6) [redacted]
1017 START COLLECTING 7782-11
1019 " " 7782-12
1036 ARRIVE AT (b) (6) [redacted]
1046 START COLLECTING 7782-13
1047 " " 7782-14
1200 ARRIVE AT (b) (6) [redacted]
1213 START COLLECTING 7782-15.
1230 ARRIVE AT (b) (6) [redacted]
CIRCLE.
1248 START COLLECTING 7782-16
1250 " " 7782-17
1430 ARRIVE AT (b) (6) [redacted]
1439 STOP COLLECTING 7782-1
1440 " " 7782-2

Rite in the Rain

3-20-18 TANGLEFOOT LANE SIRA

1500 ARRIVE AT (b) (6) [redacted]

1520 STOP COLLECTING 7782-3.

1800 WORK ON CONTACTING PROPERTY OWNERS WHO HAVEN'T REPLIED TO ACCESS CALLS.

1700 ARRIVE AT (b) (6) [redacted]

1718 START COLLECTING 7782-18.

1720 " " 7782-19.

1815 RETURN TO HOTEL TO PREP FOR TOMORROW'S ACTIVITIES.

(b) (4) [redacted]

3-21-18 TANGLEFOOT LANE SIRA

0745 ARRIVE AT (b) (6) [redacted]

0802 STOP COLLECTING 7782-4.

0806 " " 7782-5

0804 " " 7782-6

0750 " " 7782-7

0830 ARRIVE AT (b) (6) [redacted]

0840 STOP COLLECTING 7782-8

0837 " " 7782-9

0839 " " 7782-10

0915 ARRIVE AT (b) (6) [redacted]

0924 STOP COLLECTING 7782-11

0926 " " 7782-12

0935 ARRIVE AT (b) (6) [redacted]

0938 STOP COLLECTING 7782-13

0940 " " 7782-14

0950 ARRIVE AT (b) (6) [redacted]

1015 COLLECT 7782-101

1015 " 7782-101-FD

1128 ARRIVE AT (b) (6) [redacted]

1132 STOP COLLECTING 7782-15.

1356 ARRIVE AT (b) (6) [redacted]

1417 START COLLECTING 7782-20

1420 " " 7782-21

1430 ARRIVE AT (b) (6) [redacted] ROAD. NOBODY HOME.

Rite in the Rain

3-21-18 TANGLEFOOT LANE SIRA

→ START/EPA HAVE ATTEMPTED TO CONTACT PROPERTY OWNER ALL WEEK. THEY HAD COMMUNICATED LAST WEEK THAT THEY WOULD BE IN TOWN ALL WEEK FOR VI SAMPLING ACCESS.

1437 ARRIVE AT (b) (6) [redacted] ROAD.

1458 START COLLECTING 7782-22

1501 " " 7782-23

1505 " " 7782-24

1510 TALK W/ NEIGHBORING PROPERTY OWNER WHO WOULD LIKE TO HAVE PRIVATE WELL SAMPLED TOMORROW. SCHEDULED FOR 2:30 PM 3/22/18.

1640 ARRIVE AT (b) (6) [redacted]

1649 STOP COLLECTION OF 7782-18

1653 " " " 7782-19

2030 ARRIVE AT (b) (6) [redacted]

2047 START COLLECTING 7782-25

2052 " " 7782-26

2055 NEIGHBOR ARRIVES & BEGINS TO QUESTION START/EPA ABOUT SAMPLING ACTIVITIES. HE TELLS

3-21-18 TANGLEFOOT LANE SIRA

THAT ALL OF THE CROWN POINT CIRCLE NEIGHBORHOOD HAS PASSIVE RADON SYSTEMS IN ALL RESIDENCES. NONE OF THE PROPERTY OWNERS WERE AWARE OF THE SYSTEMS.

2108 END OF DAY.

(b) (4) [redacted]

Rite in the Rain

3-22-18 TANGLEFOOT LANE SIRA

0940 ARRIVE AT (b) (6) [redacted]
RD.

1015 COLLECT 7782-102, (MS/MSD).

1230 ARRIVE AT (b) (6) [redacted]
CT.

1245 COLLECT 7782-103.

1340 ARRIVE AT (b) (6) [redacted]

1347 STOP COLLECTING 7782-20

1350 " " 7782-21

1357 ARRIVE AT (b) (6) [redacted]

1401 STOP COLLECTING 7782-22

1404 " " 7782-23

1406 " " 7782-24

1420 COLLECTED 7782-104

1445 ARRIVE AT (b) (6) [redacted]

1453 COLLECTED 7782-105

PROPERTY OWNER SAID THERE WAS ANOTHER HISTORICAL DUMP JUST WEST OF THE INTERSECTION OF CROW CREEK & MIDDLE ROAD. HE WAS INTERESTED IF IT MAY BE IMPACTING WATER QUALITY.

1630 ARRIVE AT (b) (6) [redacted]

1640 COLLECT 7782-106

1730 COLLECT 7782-113-FB.

3-22-18 TANGLEFOOT LANE SIRA

(b) (4) [redacted]

3-22-18

Rite in the Rain

8-21-18 TANGLEFOOT LANE SIRA

0900 (b) (4) [redacted] ARRIVES AT HY-VEE NEAR THE SITE TO MEET MINDY LUETKE (EPA/OSC).

0930 ARRIVE AT (b) (6) [redacted]

0942 BEGIN COLLECTING 7917-2

0945 " " 7917-1

1000 ARRIVE AT (b) (6) [redacted]

1006 BEGIN COLLECTING 7917-4

1008 " " 7917-3

1020 ARRIVE AT (b) (6) [redacted]

1036 BEGIN COLLECTING 7917-5

1044 " " 7917-6

1045 " " 7917-7

1048 " " 7917-8

1130 ARRIVE AT (b) (6) [redacted]

1142 BEGIN COLLECTING 7917-9

1145 " " 7917-10

1230 LUNCH

1250 ARRIVE AT (b) (6) [redacted]

1259 BEGIN COLLECTING 7917-12

1301 " " 7917-11

1430 ARRIVE AT (b) (6) [redacted]
NOBODY HOME.

1435 ARRIVE AT (b) (6) [redacted]
NOBODY HOME.

8-21-18 TANGLEFOOT LANE SIRA

1448 ARRIVE AT (b) (6) [redacted]

1600 ARRIVE BACK AT (b) (6) [redacted]

1613 BEGIN COLLECTING 7917-14

1614 " " 7917-13

1622 ARRIVE AT (b) (6) [redacted]
CIRCLE. NOBODY HOME.

1626 ARRIVE AT (b) (6) [redacted]
CIRCLE.

1638 BEGIN COLLECTING 7917-16

1639 " " 7917-15

1650 RETURN TO HOTEL.

(b) (4) [redacted]

8-21-18

Rite in the Rain

8-22-18 TANGLEFOOT LANE SIRA

0800 ARRIVE AT (b) (6) [redacted]

0818 BEGIN COLLECTING 7917-18

0819 " " 7917-17

0820 " " 7917-19

0835 ARRIVE AT (b) (6) [redacted]

0854 BEGIN COLLECTING 7917-20.

0900 ARRIVE AT (b) (6) [redacted]

0914 END COLLECTING 7917-2

0915 " " 7917-1

0930 ARRIVE AT (b) (6) [redacted]

0938 END COLLECTING 7917-4

0939 " " 7917-3

0949 ARRIVE AT (b) (6) [redacted]

1003 END COLLECTING 7917-5

1009 " " 7917-8

1010 " " 7917-7

1011 " " 7917-6

1020 ARRIVE AT (b) (6) [redacted]

1028 BEGIN COLLECTING 7917-21

1030 ARRIVE AT (b) (6) [redacted]

ACCESS SET UP FOR LATER IN THE DAY.

1041 ARRIVE AT (b) (6) [redacted]

1059 BEGIN COLLECTING 7917-23

1100 " " 7917-22

1104 " " 7917-24

8-22-18 TANGLEFOOT LANE SIRA

1111 ARRIVE AT (b) (6) [redacted]

END COLLECTING 7917-9

" " 7917-10

1220 ARRIVE AT (b) (6) [redacted]

1232 END COLLECTING 7917-12

1233 " " 7917-11

1241 ARRIVE AT (b) (6) [redacted]

1256 BEGIN COLLECTING 7917-26

1257 " " 7917-25

1450 ARRIVE AT (b) (6) [redacted]

1510 BEGIN COLLECTING 7917-27

1510 " " 7917-28

1520 ARRIVE AT (b) (6) [redacted]

1608 END COLLECTING 7917-14

1609 " " 7917-13

1618 ARRIVE AT (b) (6) [redacted]

CIRCLE.

1621 END COLLECTING 7917-16

1622 " " 7917-15

1645 ARRIVE HOTEL.

(b) (4) [redacted]

8-22-18

Rita Rain

8-23-18 TANGLEFOOT LANE 5IRA

0750 ARRIVE AT (b) (6) [redacted]

0801 END COLLECTING 7917-18

0802 " " 7917-17

0803 " " 7917-19.

0815 ARRIVE AT (b) (6) [redacted]

0821 END COLLECTING 7917-20.

0830 ARRIVE AT (b) (6) [redacted]

1000 END COLLECTING 7917-21.

1010 ARRIVE AT (b) (6) [redacted]

1035 END COLLECTING 7917-22

1035 " " 7917-23

1038 " " 7917-24

1056 ARRIVE AT (b) (6) [redacted]

1110 COLLECTED 7917-101

1205 ARRIVE AT (b) (6) [redacted]

1211 END COLLECTING 7917-26

1212 " " 7917-25

1230 COLLECTED 7917-102-FB

1245 COLLECTED 7917-104-FB

1320 ARRIVE AT (b) (6) [redacted]

1450 END COLLECTING 7917-27

1450 END COLLECTING 7917-28

1500 COLLECT 7917-29-FB.

1530 DEPART BETTENDORF, IA. (b) (4) [redacted]

Rite in the Rain

APPENDIX E

FIELD SHEETS

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 206 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-206-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-9 ; 36'-40' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.5581~~63~~ 5a 007 **Sample Collection: Start:** 10/6/16 07:30
Longitude: -90.47858982 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1 - 1 Liter plastic bottle~~	~~5 mL of HNO3/L to pH<2~~	~~28~~	~~Days~~	~~1 Mercury in Water~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals - Dissolved, in Water by ICP/MS~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2, 4 Deg~~ C	~~28~~	~~Days~~	1 ~~Mercury - Dissolved, in Water~~
~~1 - 1 Liter plastic bottle~~	~~HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals in Water by ICP/MS~~
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Herbicides in Water by GC/EC~~
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 207 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-207-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-10; 36'-40' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.558698°	**Sample Collection: Start:**	10/6/16	09:20
Longitude: -90.476837°	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 208 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-208-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-1

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 10/6/16 12:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 209 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-209-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-3

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	10/6/16	15:30
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 210 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-210-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-14; 28'-32' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559866 61° **Sample Collection: Start:** 10/6/16 15:50
Longitude: -90.4825 1605° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 201 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-201-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-2 ; 34'-38' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.860696 **Sample Collection: Start:** 10/4/16 17:50
Longitude: -90.478347 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1 - 1 Liter plastic bottle~~	~~5 mL of HNO3/L to pH<2~~	~~28~~	~~Days~~	~~1 Mercury in Water~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals - Dissolved, in Water by ICP/MS~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2, 4 Deg C~~	~~28~~	~~Days~~	~~1 Mercury - Dissolved, in Water~~
~~1 - 1 Liter plastic bottle~~	~~HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals in Water by ICP/MS~~
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Semi-Volatile Organic Compounds in~~ Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Pesticides in Water by GC/EC~~
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Herbicides in Water by GC/EC~~
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID~~

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 202 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-202-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-3; 40'-44' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.560474	**Sample Collection: Start:**	10/5/16	08:00
Longitude: -90.476527	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1 - 1 Liter plastic bottle~~	~~5 mL of HNO3/L to pH<2~~	~~28~~	~~Days~~	~~1 Mercury in Water~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals - Dissolved, in Water by~~ ICP/MS
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2, 4 Deg C~~	~~28~~	~~Days~~	~~1 Mercury - Dissolved, in Water~~
~~1 - 1 Liter plastic bottle~~	~~HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals in Water by ICP/MS~~
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Pesticides in Water by GC/EC~~
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Herbicides in Water by GC/EC~~
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID~~

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 203 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-203-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-4 ; 32'-36' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.560558 **Sample Collection: Start:** 10/5/10 09:20
Longitude: -90.472568 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) MS / MSD

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 204 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-204-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-5; 28'-32' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.559808	**Sample Collection: Start:**	10/5/16	12:50
Longitude: -90.468729	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 205 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-205-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-6; 36'-40' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.558520	**Sample Collection: Start:**	10/5/16	14:30
Longitude: -90.469924	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1 - 1 Liter plastic bottle~~	~~5 mL of HNO3/L to pH<2~~	~~28~~	~~Days~~	~~1 Mercury in Water~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals - Dissolved, in Water by ICP/MS~~
~~1 - 1 Liter plastic bottle~~	~~Field Filtered, HNO3 to pH<2, 4 Deg C~~	~~28~~	~~Days~~	~~1 Mercury - Dissolved, in Water~~
~~1 - 1 Liter plastic bottle~~	~~HNO3 to pH<2~~	~~180~~	~~Days~~	~~1 Metals in Water by ICP/MS~~
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Pesticides in Water by GC/EC~~
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7~~	~~Days~~	~~1 Herbicides in Water by GC/EC~~
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 225 **QC Code:** FB **Matrix:** Water **Tag ID:** 7219-225-FB

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Water Trip Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	9/28/16	14:30
	End:	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 Volatile TPH in Water by GC/MS

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-1-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-1 (background location); 4'-5' BGS

External Sample Number: 7[illegible]

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.563328 **Sample Collection: Start:** 10/4/16 14:45
Longitude: -90.477241 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER #: 3243

PRESSURES (psi):
START: -27
STOP: -5

NOTE: NO REGULATORS USED FOR SAMPLE COLLECTION.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-2-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-2 ; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.560696	**Sample Collection: Start:**	10/4/16	16:20
Longitude: -90.478347	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER # : 4566

PRESSURES (psi) :
START : -28
STOP : -5

NOTE: NO REGULATORS USED FOR SAMPLE COLLECTION.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-3-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-3 (4'-5' bgs)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.540674	**Sample Collection: Start:**	10/5/16	07:25
Longitude: -90.474527	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Canister #: 3257
pressure (psi)
Start: -28
Stop: -5

Note: No regulator used for sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 4 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-4-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-4; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude: 41.560558	**Sample Collection:**	**Start:**	10/5/16	08:45
Longitude: -90.472568		**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Cannister#: 4562
pressure (psi)
Start: -28
Stop: -5

Note: No regulator used for sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 5 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-5-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-5; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559808 **Sample Collection: Start:** 10/5/16 11:50
Longitude: -90.468729 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Cannister #: 4559
pressure (psi)
Start: -28
Stop: -5

NOTE: No regulator used for sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 6 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-6-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-6 ; 1'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.5585520 **Sample Collection: Start:** 10/5/16 13:40
Longitude: -90.469924 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Cannister #: L5187
pressure (psi)
Start: -29
Stop: -5

NOTE: No regulator used for sample locations.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 7 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-7-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-7 ; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.557662	**Sample Collection: Start:**	10/5/16	15:25
Longitude: -90.471724	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Cannister: L5195
pressure (psi)
Start: -29
Stop: -5

NOTE: No regulator used for sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 8 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-8-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-8 ; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.556152° **Sample Collection: Start:** 10/5/16 17:00
Longitude: -90.474811° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER: 7444
PRESSURE (psi):
START: -28
STOP: -5

NOTE: NO REGULATOR USED FOR SAMPLE COLLECTION

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 9 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-9-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-9; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude: 41.55868007°	**Sample Collection:**	**Start:**	10/5/16	17:52
Longitude: -90.47858982°		**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER: 8825

PRESSURE (psi):

START: -29

STOP: -5

NOTE: NO REGULATOR USED FOR SAMPLE COLLECTION.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 10 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-10-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-16 ; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.558698 **Sample Collection: Start:** 10/6/16 0840
Longitude: -90.476837 **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

Cannister#: A7496
pressure (psi):
Start: -28
Stop: -5

NOTE: No regulators used for sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 11 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-11-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-11 ; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.55909325' **Sample Collection: Start:** 10/6/16 10:35
Longitude: -90.47631187' **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER:
PRESSURE (psi):

START: -29
STOP: -5

NOTE: NO REGULATOR USED FOR SAMPLE COLLECTION

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 12 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-12-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-13; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.55850170° **Sample Collection: Start:** 10/9/16 13:42
Longitude: -90.47539841° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER: 3003
PRESSURE (psi):
START: -28
STOP: -5

NOTE: NO REGULATOR USED FOR SAMPLE COLLECTION.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 13 **QC Code:** __ **Matrix:** Air **Tag ID:** 7219-13-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: ~~DPT-14; 4'-5' BGS~~ DPT-15; 4'-5' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ~~41.56984~~ **Sample Collection: Start:** ~~10/7/16~~ 10/7/16 **Date** ~~15 02~~ 0800 **Time(24 hr)**

Longitude: ~~-90.47237~~ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LAT: 41.56648532°
LONG: -90.47359304°

Cannister #: 4309
pressure (psi):
Start: -28
Stop: -5

NOTE: No regulator used during sample collection

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 18 **QC Code:** FB **Matrix:** Air **Tag ID:** 7219-18-FB

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Air Field Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	10/7/16	16:45
	End:	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 101 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-101-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-1

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	41.559592	**Sample Collection: Start:**	10/6/16	13:60
Longitude:	-90.469404	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
2 - 40mL VOA vial	4 Deg C	14	Days	1 Volatile TPH in Soil by GC/MS
4 - 40mL VOA vials (soil VOA 5035)	4 Deg C, sodium bisulfate (2 vials), MeOH (1 vial)	14	Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 102 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-102-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: ~~SWS-7/3~~ SWS-3

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559854° **Sample Collection: Start:** 10/6/16 15:40
Longitude: -90.471960° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
2 - 40mL VOA vial	4 Deg C	14	Days	1 Volatile TPH in Soil by GC/MS
4 - 40mL VOA vials (soil VOA 5035)	4 Deg C, sodium bisulfate (2 vials), MeOH (1 vial)	14	Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 103 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-103-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-2

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559678° **Sample Collection: Start:** 10/6/16 16:40
Longitude: -90.470531° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
2 - 40mL VOA vial	4 Deg C	14	Days	1 Volatile TPH in Soil by GC/MS
4 - 40mL VOA vials (soil VOA 5035)	4 Deg C, sodium bisulfate (2 vials), MeOH (1 vial)	14	Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 104 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-104-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-4

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.560274°	**Sample Collection: Start:**	10/7/16	08:20
Longitude: -90.483205°	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
2 - 40mL VOA vial	4 Deg C	14	Days	1 Volatile TPH in Soil by GC/MS
4 - 40mL VOA vials (soil VOA 5035)	4 Deg C, sodium bisulfate (2 vials), MeOH (1 vial)	14	Days	1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 105 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-105-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SS-1

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.560465631° **Sample Collection: Start:** 10/7/16 10:00
Longitude: -90.473347611° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 106 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-106-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SS-2

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.56031488° **Sample Collection: Start:** 10/7/16 11:15
Longitude: -90.47640433° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 107 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-107-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SS-3

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.560 11434° **Sample Collection: Start:** 10/7/16 11:32
Longitude: -90.476 56610° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 108 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-108-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SS-4

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.55495068° **Sample Collection: Start:** 10/7/16 11:56
Longitude: -90.47641556° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 109 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-109-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: ~~SS-16~~ SS-5

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559275° **Sample Collection: Start:** 10/7/16 14:50
Longitude: -90.476210° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 110 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-110-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: ~~SS-7~~ SS-6

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559306° **Sample Collection: Start:** 10/7/16 15:23
Longitude: -90.475130° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 111 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7219-111-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SS-7

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	41.559346°	**Sample Collection: Start:**	10/7/16	15:52
Longitude:	-90.474125°	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	28	Days	1 Mercury in Soil or Sediment
1 - 8 oz glass	4 Deg C	180	Days	1 Metals in Solids by ICP-AES
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	14	Days	1 Pesticides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Herbicides in Soil by GC/EC
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 211 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-211-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-2

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 41.559678°	**Sample Collection: Start:**	10/6/16	16:30
Longitude: -90.470531°	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 212 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-212-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: SWS-4

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.560274° **Sample Collection: Start:** 10/7/16 08:10
Longitude: -90.483205° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 213 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-213-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-15 ; 40'-44' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.56048532' **Sample Collection: Start:** 10/7/16 09:00
Longitude: -90.47359804' **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 215 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-215-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: DPT-17; 16'-20' BGS

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 41.559899° **Sample Collection: Start:** 10/7/16 11:20
Longitude: -90.476411° **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7219 **Sample Number:** 216 **QC Code:** __ **Matrix:** Water **Tag ID:** 7219-216-__

Project ID: THDB7C7 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: RINSATE BLANK

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 10/7/16 12:10

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
2 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Herbicides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-1-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/19/18 15:15
Longitude: ___ ___ ___ **End:** 3/20/18 14:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3243
REGULATOR NO.: A0298789-7

PRESSURE: START: -29.5
(psi) STOP: -5

NOTE: SUB-SLAB PORT LOCATED IN STORAGE ROOM IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-2-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/19/18	15:20
Longitude: ___ ___ ___	**End:**	3/20/18	14:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4559
REGULATOR NO.: A0298794-10
PRESSURE (psi): START: -29.5
STOP: 0

NOTE: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-3-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/19/18	15:50
Longitude: ___ ___ ___	**End:**	3/20/18	15:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3247

REGULATOR NO.: A0298796-10

PRESSURE (psi): START: -29.5

STOP: -5

NOTE: INDOOR AIR SAMPLE COLLECTED IN NW BASEMENT SITTING ROOM.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 4 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-4-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 9/20/18 08:26
Longitude: ___ ___ ___ **End:** 9/21/18 08:02

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3250
REGULATOR NO.: A0271055-3
PRESSURE (psi): START: -30
STOP: -0

NOTE: INDOOR AIR SAMPLE COLLECTED IN WESTERN PORTION OF BASEMENT OF BELOW RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 5 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-5-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] RESIDENCE (SUB-SLAB SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	08:18
Longitude: ___ ___ ___	**End:**	3/21/18	08:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4565
REGULATOR NO.: A02824486-5
PRESSURE (psi): START: -29.5
STOP: -0

NOTE: SUB-SLAB PORT LOCATED IN STORAGE ROOM IN WESTERN PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 6 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-6-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/19/18 08:52
Longitude: ___ ___ ___ **End:** 3/21/18 08:04

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3014

REGULATOR NO.: A028919 6-1

PRESSURE (psi): START: -30
STOP: -4

NOTE: AMBIENT AIR SAMPLE COLLECTED ON WESTERN SIDE OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 7 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-7-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 08:39
Longitude: ___ ___ ___ **End:** 3/21/18 07:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4560

REGULATOR NO.: A0299486-4

PRESSURE (psi): START: -29

STOP: -4

NOTE: INDOOR AIR SAMPLE COLLECTED IN STORAGE CLOSET IN WESTERN PORTION OF EVENT PAVILLION.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 8 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-8-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(SOIL GAS)~~ → (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 09:24
Longitude: ___ ___ ___ **End:** 3/21/18 08:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4562

REGULATOR NO.: A0334482-9

PRESSURE (psi): START: -29

STOP: -4

NOTES: AMBIENT AIR SAMPLE COLLECTED ON BACK DECK OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 9 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-9-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(INDOOR AIR)~~ (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	9/20/18	09:20
Longitude: ___ ___ ___	**End:**	9/21/18	08:37

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3000

REGULATOR NO.: A0271062-10

PRESSURE (psi): START: -27

STOP: -3

NOTES: SOIL GAS PORT LOCATED IN STORAGE CLOSET IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 10 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-10-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(AMBIENT AIR)~~ (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	3/20/18	09:22
	End:	3/21/18	08:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2229

REGULATOR NO.: A0106061-5

PRESSURE (psi): START: -27
STOP: -3

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVING ROOM ON MAIN FLOOR OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 11 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-11-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:17
Longitude: ___ ___ ___ **End:** 3/21/18 09:24

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER NO.: 3032

REGULATOR NO.: 7332107

PRESSURE (psi): START: -30

STOP: -0

NOTES: SOIL GAS PORT LOCATED NW CORNER OF BASEMENT IN STORAGE ROOM.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 12 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-12-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	10:19
Longitude: ___ ___ ___	**End:**	3/21/18	09:26

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: ~~12~~ L5203

REGULATOR NO.: A0299486-5

PRESSURE (psi): START: -30

STOP: -5

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF RESIDENCE

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 13 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-13-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:46
Longitude: ___ ___ ___ **End:** 3/21/18 09:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5197

REGULATOR NO.: A0271059-2

PRESSURE (psi): START: -29.5

STOP: -5

NOTES: SUB-SLAB PORT IN QUILTING ROOM IN BASEMENT.

PROPERTY OWNER:

(b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 14 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-14-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:47
Longitude: ___ ___ ___ **End:** 3/21/18 09:46

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5113

REGULATOR NO.: A0271058-0

PRESSURE (psi): START: -30

STOP: -5

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVING ROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 15 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-15-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	12:13
Longitude: ___ ___ ___	**End:**	3/21/18	11:32

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2220

REGULATOR NO.: A0283642-6

PRESSURE (psi): START: -30

STOP: -2

NOTES: INDOOR AIR SAMPLE COLLECTED IN RECREACTIONAL ROOM IN BASEMENT. OWNER NOTIFIED START/EPA OF RADON SYSTEM CURRENTLY OPERATING IN HOME AFTER TEST BEGAN.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 16 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-16-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	3/20/18	12:48
Longitude:	___ ___ ___	**End:**	3/21/18	11:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3025

REGULATOR NO.: A0283641-10

PRESSURE (psi): START: -30

STOP: -7

NOTES: SUB-SLAB PORT LOCATED IN UNFINISHED STORAGE ROOM IN BASEMENT.

PROPERTY OWNER: _____

(b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 17 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-17-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 12:50
Longitude: ___ ___ ___ **End:** 3/21/18 11:57

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

CANISTER NO.: L5187

REGULATOR NO.: 7273195

PRESSURE (psi): START: -28.5

STOP: -4

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 18 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-18-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 17:18
Longitude: ___ ___ ___ **End:** 3/21/18 16:49

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5200

REGULATOR NO.: A0334 ~~874-5~~ 394-3

PRESSURE (psi): START: -29.5

STOP: -4

NOTES: SUB-SLAB PORT IS IN STORAGE ROOM IN WESTERN PORTION OF BASEMENT

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 19 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-19-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 17:20
Longitude: ___ ___ ___ **End:** 3/21/18 16:53

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4551
REGULATOR NO.: 126465
PRESSURE (psi): START: -30
STOP: -7

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVING ROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 20 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-20-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SUB-SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 14:17
Longitude: ___ ___ ___ **End:** 3/22/18 13:47

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2219.

REGULATOR NO.: A0298792-7

PRESSURE (psi): START: -30

STOP: -7.5

NOTE: SUB-SLAB PORT LOCATED IN NORTHEAST CORNER OF BASEMENT IN A STORAGE AREA.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 21 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-21-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 14:20
Longitude: ___ ___ ___ **End:** 3/22/18 13:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4556

REGULATOR NO.: A0283640-10

PRESSURE (psi): START: -30
STOP: -5

NOTE: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF HOME.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 22 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-22-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SUB-SLAB SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 14:58
Longitude: ___ ___ ___ **End:** 3/22/18 14:01

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3002

REGULATOR NO.: A0334866-5

PRESSURE (psi): START: -29.5

STOP: -24

NOTES: SUB-SLAB PORT LOCATED IN STORAGE CLOSET IN WESTERN PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 23 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-23-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 15:01
Longitude: ___ ___ ___ **End:** 3/22/18 14:04

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4568

REGULATOR NO.: A0334874-10

PRESSURE (psi): START: -30

STOP: -3

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 24 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-24-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 15:05
Longitude: ___ ___ ___ **End:** 3/22/18 14:06

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3235

REGULATOR NO.: A0283640-9

PRESSURE (psi): START: -30

STOP: -5

NOTES: AMBIENT AIR SAMPLE COLLECTED JUST WEST OF HOUSE.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 25 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-25-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/21/18	20 ~~08~~:47
Longitude: ___ ___ ___	**End:**	3/22/18	19:53

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4557

REGULATOR NO.: 7262306

PRESSURE (psi): START: -29

STOP: 0

NOTES: SUB-SLAB PORT LOCATED IN UNFINISHED PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 26 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-26-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/21/18	20 08:52
Longitude: ___ ___ ___	**End:**	3/22/18	19:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3017

REGULATOR NO.: A0289193-8

PRESSURE (psi): START: -30

STOP: -1

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 27 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-27-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: TRIP BLANK

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 22:00

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) TRIP BLANK SAMPLE

CANISTER NO.:

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 101 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-101-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 10:15

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

NOTES: COLLECTED FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT OF WATER. WELL APPROX 100' - 120' DEEP. DRINKING WATER WELL.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 112 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-[redacted] 101-FD

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) FIELD DUPLICATE SAMPLE

NOTES: COLLECTED FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT OF WATER. WELL APPROX 100'-120' DEEP. DRINKING WATER WELL.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 102 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-102-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
9 ~~3~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
9 ~~3~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments: MS/MSD COLLECTED

(N/A)

NOTES: SAMPLE COLLECTED FROM SPICKET NEAR GARAGE. NO TREATMENT OF WATER FROM THIS SPICKET. THIS WELL PROVIDES DRINKING WATER FOR 3 HOMES IN AREA. OWNERS ARE MOVING SOON BUT WILL HAVE MAIL FORWARDED.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 103 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-103-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 12:40

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:
(N/A)

NOTES: DRINKING WATER WELL.
COLLECTED SAMPLE FROM RENTAL PROPERTY NEXT DOOR AT KITCHEN SINK. WHERE OWNER SAID WATER WAS NOT TREATED. WELL SERVICES MULTIPLE RESIDENCES.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 104 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-104-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 14:20

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:
(N/A)

NOTES: DRINKING WATER WELL. COLLECTED SAMPLE FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT ON WATER.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 105 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-105-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/28/18 14:53

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) DRINKING WATER WELL.
NOTE: COLLECTED SAMPLE FROM SAMPLING SPICKET IN MECHANICAL ROOM IN BASEMENT. NO WATER TREATMENT AT SPICKET.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 106 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-106-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 16:40

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

NOTES: SAMPLE COLLECTED FROM PIPE THAT DISCHARGES INTO A POND IN FRONT YARD. OWNERS DO NOT USE FOR DRINKING WATER.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 113 **QC Code:** FB **Matrix:** Water **Tag ID:** 7782-113-FB

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Field Blank

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 17:30

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) FIELD BLANK SAMPLE.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 114 **QC Code:** FB **Matrix:** Water **Tag ID:** 7782-114-FB

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: LDL VOA/TPH VOA (GRO) Trip Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 22:00

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS

Sample Comments:

Prepared by the LTAB. TRIP BLANK SAMPLE

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-1-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	09:45
End:	8/22/18	09:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

FIRST FLOOR LIVING ROOM

REGULATOR ID: A027 1062-10

CANISTER ID: 3261

PRESSURE: START: -29 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-2-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	09:42
Longitude: ___ ___ ___	**End:**	8/22/18	09:14

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) WESTERN CORNER OF BASEMENT.

REGULATOR ID: 129903-7277160

CANISTER ID: L5196

PRESSURE: START: -28 "Hg
STOP: -28 "Hg

NOTE: MOISTURE FOUND IN SUB-SLAB PORT LINE. MOST LIKELY CAUSED BY HIGH GROUNDWATER LEVELS DUE TO HEAVY RAIN IN THE AREA THIS WEEK.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-3-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	10:08
End:	8/22/18	09:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

1ST FLOOR LIVINGROOM

CANISTER ID: L5207

REGULATOR ID: 128518-7273159

PRESSURE: START: -29 "Hg
STOP: -3.5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 4 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-4-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:06
Longitude: ___ ___ ___	**End:**	8/22/18	09:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) BASEMENT IN QUILTING ROOM.

CANISTER ID: 16979

REGULATOR ID: A0282486-5

PRESSURE: START: -30 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 5 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-5-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	10:36
End:	8/22/18	10:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

PAVILION STORAGE ROOM.

CANISTER ID: L5112

REGULATOR ID: A0283642 - 7

PRESSURE: START: -30 "Hg

STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 6 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-6-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:44
Longitude: ___ ___ ___	**End:**	8/22/18	10:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BASEMENT SW CORNER ROOM OF RESIDENCE.

CANISTER ID: 3013

REGULATOR ID: A0299485-10

PRESSURE: START: -29.5 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 7 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-7-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:45
Longitude: ___ ___ ___	**End:**	8/22/18	10:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BASEMENT SW STORAGE ROOM. OF RESIDENCE.

CANISTER ID: R2214

REGULATOR ID: A0298789-7

PRESSURE: START: -30 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 8 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-8-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:48
Longitude: ___ ___ ___	**End:**	8/22/18	10:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

WEST SIDE OF RESIDENCE.

CANISTER ID: 3024

REGULATOR ID: A0299486-5

PRESSURE: START: -29 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 9 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-9-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	8/21/18	11:42
Longitude:	___ ___ ___	**End:**	8/22/18	11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) FIRST FLOOR LIVING ROOM.

CANISTER ID: 3032

REGULATOR ID: A0334387-3

PRESSURE: START: -29.5 "Hg

STOP: - 5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 10 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-10-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	11:45
End:	8/22/18	11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) NE CORNER OF BASEMENT IN STORAGE ROOM.

CANISTER ID: 3025

REGULATOR ID: 128697-7273195

PRESSURE: START: -28.5 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 11 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-11-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/21/18	13:01
	End:	8/22/18	12:33

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

LIVING ROOM - FIRST FLOOR

CANISTER ID: 4562

REGULATOR ID: A0271055-9

PRESSURE: START: -29.5 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 12 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-12-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	12:59
End:	8/22/18	12:32

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BASEMENT STORAGE AREA.

CANISTER ID: 3030

REGULATOR ID: A0271055-8

PRESSURE: START: -29 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 13 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-13-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:14
Longitude: ___ ___ ___	**End:**	8/22/18	16:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

FIRST FLOOR LIVING ROOM

CANISTER ID: R0486

REGULATOR ID: A0334866-1

PRESSURE: START: -29 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 14 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-14-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/21/18	16:13
	End:	8/22/18	16:08

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)
BASEMENT LAUNDRY ROOM.

CANISTER ID: 4559
REGULATOR ID: A0334874-8
PRESSURE: START: -29.5 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 15 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-15-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:39
Longitude: ___ ___ ___	**End:**	8/22/18	16:22

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

LIVINGROOM - FIRST FLOOR

CANISTER ID: L5203

REGULATOR ID: A0283642-1

PRESSURE: START: -29 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 16 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-16-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:30
Longitude: ___ ___ ___	**End:**	8/22/18	16:21

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT

CANISTER ID: 4056

REGULATOR ID: A0106061-5

PRESSURE: START: -27 "Hg

STOP: -3 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 17 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-17-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/22/18	08:19
End:	8/23/18	08:02

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

LIVING ROOM

CANISTER ID: 4560

REGULATOR ID: A0298796-10

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 18 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-18-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	08:18
Longitude: ___ ___ ___	**End:**	8/23/18	08:01

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BASEMENT CLOSET

CANISTER ID: 14977

REGULATOR ID: A0334367-4

PRESSURE: START: -29.5 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 19 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-19-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	08:20
Longitude: ___ ___ ___	**End:**	8/23/18	08:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BACK PATIO

CANISTER ID: 3007

REGULATOR ID: A0283641-7

PRESSURE: START: -30 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 20 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-20-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	08:54
	End:	8/23/18	08:21

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT LIVINGROOM

CANISTER ID: L5184

REGULATOR ID: A0299486-2

PRESSURE: START: -29.5 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 21 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-21-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	10:30
	End:	8/23/18	10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT LIVING ROOM.

CANISTER ID: 4571

REGULATOR ID: 7342924

PRESSURE: START: -30 "Hg

STOP: - 8 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 22 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-22-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	11:00
	End:	8/23/18	10:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

1ST FLOOR LIVING ROOM

CANISTER ID: L5191

REGULATOR ID: A0333292-6

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 23 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-23-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/22/18	10:59
End:	8/23/18	10:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT STORAGE ROOM.

CANISTER ID: 4569

REGULATOR ID: A0334874-5

PRESSURE: START: -30 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 24 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-24-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	11:04
Longitude: ___ ___ ___	**End:**	8/23/18	10:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

WEST SIDE OF HOUSE.

CANISTER ID: L5195

REGULATOR ID: A0289195-1

PRESSURE: START: -30 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 25 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-25-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	12:57
Longitude: ___ ___ ___	**End:**	8/23/18	12:12

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM - FIRST FLOOR

CANISTER ID: L5182

REGULATOR ID: A0298796-4

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 26 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-26-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	12:56
Longitude: ___ ___ ___	**End:**	8/23/18	12:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT - UNDER STAIRS

CANISTER ID: LS193

REGULATOR ID: A0334394-3

PRESSURE: START: -30 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 27 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-27-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/22/18 15:10
Longitude: ___ ___ ___ **End:** 8/23/18 14:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM. MAIN FLOOR.

CANISTER ID: L5110

REGULATOR ID: A0334388-4

PRESSURE: START: -~~30~~ 29 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 28 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-28-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	15:10
Longitude: ___ ___ ___	**End:**	8/23/18	14:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

BASEMENT

CANISTER ID: 3017
REGULATOR ID: A0295815-3
PRESSURE: START: -30 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 29 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-29-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: TRIP BLANK SAMPLE

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/23/18	15:00
	End:	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER ID: 3031

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 101 **QC Code:** __ **Matrix:** Water **Tag ID:** 7917-101-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 11:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

	Container	Preservative	Holding Time		Analysis
0	~~1~~ - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
	1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
0	~~1~~ - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
	1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
0	~~1~~ - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
	1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
9	~~2~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
9	~~2~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
2	~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
2	~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) MS/MSD COLLECTED.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 102 **QC Code:** __ **Matrix:** Water **Tag ID:** 7917-102-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: FIELD BLANK SAMPLE

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 12:30
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1~~ 0 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
~~1~~ 0 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
~~1~~ 0 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 104 **QC Code:** FB **Matrix:** Water **Tag ID:** 7917-104-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Water LDL VOA/TPH VOA (GRO) Trip Blank

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 12:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 Volatile TPH in Water by GC/MS

Sample Comments:

Prepared by the LTAB. ONLY 3 - 40mL VOAS PROVIDED FOR TRIP BLANK.

Sample Collected By: TT

APPENDIX F

CHAIN-OF-CUSTODY RECORDS

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	4-5 / 10 / 2016	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	1-L POLY BOTTLE	8 OZ. GLASS BOTTLE	VOA SET (4) BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
7219-201				1	1	X					
-202			1	1	1	X					
-203		2	12	3	3	X					
-204		2	4	1	1	X					
-205			2	1	1	X					
-225-FD				1	1	X					

ASR [redacted] COMPLETE 10-5-2016

DESCRIPTION OF SHIPMENT

_____ PIECE(S) CONSISTING OF _____ BOX(ES)

✓ ICE CHEST(S): OTHER _____
5 TOTAL

MODE OF SHIPMENT

✓ COMMERCIAL CARRIER: FED EX - PRIORITY OVERNIGHT

_____ COURIER

_____ SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] ✓ SEALED UNSEALED	10-5-16	1700	SEALED UNSEALED	
RELINQUISHED BY: SEALED UNSEALED	DATE	TIME	RECEIVED BY: SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY: SEALED UNSEALED	DATE	TIME	RECEIVED BY: SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	6 / 10 / 2016	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	1-L POLY BOTTLE	80 OZ GLASS BOTTLE	VOA SET (4) BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
7219-206			3	1	1	X					
7219-207		2	4	1	1	X					
7219-208		2	4	1	1	X					
7219-209		2	4	1	1	X					
7219-210		2	4	1	1	X					

(b) (4) [redacted]

AS COMPLETE 10-6-2016

DESCRIPTION OF SHIPMENT

_____ PIECE(S) CONSISTING OF _____ BOX(ES)

✓ ICE CHEST(S): OTHER _____ 5 TOTAL

MODE OF SHIPMENT

✓ COMMERCIAL CARRIER: FEDEX-PRIORITY OVERNIGHT

_____ COURIER

_____ SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
(b) (4) [redacted] ☐ SEALED ☐ UNSEALED	10-6-2016	1700	☐ SEALED ☐ UNSEALED	
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	4-7 / 10 / 2016	1 of 2

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: Summa CUBITAINER	8OZ. GASS BOTTLE	BOTTLE	VOA SET(4) BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other AIR	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
7219-1	1									X	
-2	1									X	
-3	1									X	
-4	1									X	
-5	1									X	
-6	1									X	
-7	1									X	
-8	1									X	
-9	1									X	
-10	1									X	
-11	1									X	
-12	1									X	
-13	1									X	
-18-FB	1									X	
-101		4		1	1		X				
-102		4		1	1		X				
-103		4		1	1		X				
-104		4		1	1		X				
-105		4					X				
-106		4					X				
-107		4					X				
-108		4					X				
-109		4					X				
-110		4					X				

DESCRIPTION OF SHIPMENT

✓ PIECE(S) CONSISTING OF 4 BOX(ES)

✓ ICE CHEST(S): OTHER 7

MODE OF SHIPMENT

___ COMMERCIAL CARRIER: ___

___ COURIER

✓ SAMPLER CONVEYED

___ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] (b) (4) SEALED UNSEALED ✓	10-11-16	10:45	Gary W. Evans SEALED UNSEALED ✓	Rec'd @ EPA
RELINQUISHED BY SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY

*U.S. GPO: 2002-756-917/40053

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	4-7 / 10 / 2016	2 of 2

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: ~~80 OZ GLASS CUBITAINER~~	8OZ GLASS BOTTLE	1L POLY BOTTLE	VOA SET BOTTLE (4)	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
7219-111		4					X				
-211	4		2	1	1	X					
-212	4		2	1	1	X					
-213	4		2	1	1	X					
-214	4		2	1	1	X					
-215	4		2	1	1	X					
-216	4		2	1	1	X					

ASR [redacted] COMPLETE 10-11-2016

DESCRIPTION OF SHIPMENT

✓ PIECE(S) CONSISTING OF 4 BOX(ES)

✓ ICE CHEST(S): OTHER 7

MODE OF SHIPMENT

___ COMMERCIAL CARRIER: ___

___ COURIER

✓ SAMPLER CONVEYED

(SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] SEALED UNSEALED ✓	10-11-16	10:45	Gary W. Evans SEALED UNSEALED ✓	Rec'd @ EPA
RELI[redacted] SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	3 (MONTH) 19-22 (DAY) 2018 (YEAR)	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	SUMMA BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7782-1		1							X		
-2		1							X		
-3		1							X		
-4		1							X		
-5		1							X		
-6		1							X		
-7		1							X		
-8		1							X		
-9		1							X		
-10		1							X		
-11		1							X		
-12		1							X		
-13		1							X		
-14		1							X		
-15		1							X		
-16		1							X		
-17		1							X		
-18		1							X		
-19		1							X		
-20		1							X		
-21		1							X		
-22		1							X		
-23		1							X		
-24		1							X		

DESCRIPTION OF SHIPMENT

✓ CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 9.

MODE OF SHIPMENT

____ COMMERCIAL CARRIER ____

✓ SAMPLER CONVEYED ____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELI[redacted]R)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
(b) (4) SE[redacted]ALED	3-23-18	10:48	Nicole Robb SEALED UNSEALED	3/23/18	1048	Analy
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	3 (MONTH) 17-22 (DAY) 2018 (YEAR)	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	SUMMA BOTTLE	80 OZ GLASS BOTTLE	1 VOA BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7782-25		1							X		
-26		1							X		
-27		1							X		
-101	2		3	1	2	X					
-101-FD	2		3	1	2	X					
-102	2		9	1	6	X					MS/MSD
-103	2		3	1	2	X					
-104	2		3	1	2	X					
-105	2		3	1	2	X					
-106	2		3	1	2	X					
-113-FB	1		3	1	2	X					
-114-FB					2	X					

ASR COMPLETE

DESCRIPTION OF SHIPMENT

✓ CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 9

MODE OF SHIPMENT

____ COMMERCIAL CARRIER ____

✓ SAMPLER CONVEYED ____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] (b) (4) LED ✓	3-23-18	10:48	Nicole Robl SEALED UNSEALED	3/23/18	10:48	Analyze
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			

7-EPA-9262 (REV 4/17) WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
MELINDA LUETKE	TANGLEFOOT LANE SIRA	8 (MONTH) 21-23 (DAY) 2018 (YEAR)	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	1 SUMMA BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7917- 1		1							X		
-2		1							X		
-3		1							X		
-4		1							X		
-5		1							X		
-6		1							X		
-7		1							X		
-8		1							X		
-9		1							X		
-10		1							X		
-11		1							X		
-12		1							X		
-13		1							X		
-14		1							X		
-15		1							X		
-16		1							X		
-17		1							X		
-18		1							X		
-19		1							X		
-20		1							X		
-21		1							X		
-22		1							X		
-23		1							X		
-24		1							X		

DESCRIPTION OF SHIPMENT

✓ CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 2 TOTAL

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

✓ SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] SEALED UNSEALED	8-24-18	1020	[redacted] SEALED UNSEALED	8/24/18	1020	Analysis
RELI[redacted] SEALED UNSEALED			SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
MELINDA LUETKE	TANGLEFOOT LANE SIRA	8 (MONTH) 21-23 (DAY) 2018 (YEAR)	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	1 SUMMA BOTTLE	80 oz GLASS BOTTLE	1 VOA VIAL BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7917-25		1							X		
-26		1							X		
-27		1							X		
-28		1							X		
-29-FB		1							X		
-101	2		4	1	~~9~~ 6	X					
-102-FB	2		2	1	2	X					
-104-FB					1	X					

ASR COMPLETE

[redacted] (b) (4)

8-24-2018

DESCRIPTION OF SHIPMENT

✓ CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 2 TOTAL

MODE OF SHIPMENT

COMMERCIAL CARRIER

✓ SAMPLER CONVEYED (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] (b) (4) SEALED	8-24-18	1028	[signature] SEALED UNSEALED	8/24/18	1020A	[signature]
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			

7-EPA-9262 (REV 4/17)

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APPENDIX G

ANALYTICAL DATA FROM EPA REGION 7 LABORATORY

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 11/28/2016

Subject: Transmittal of Sample Analysis Results for ASR #: 7219

Project ID: THDB7C7

Project Description: Tanglefoot Lane

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch, Environmental Sciences & Technology Division

To: Todd Davis
SUPR/AERR

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Todd Davis Org: SUPR/AERR Phone: 913-551-7749

Project ID: THDB7C7

Project Desc: Tanglefoot Lane

Location: Bettendorf State: Iowa Program: Superfund

Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION Site ID: B7C7 Site OU: 00

Purpose: Site Characterization GPRA PRC: 303DD2

Site Investigation (SI)/Removal Assessment (RA) sampling.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank

Units: Specific units in which results are reported.

ug/kg = Micrograms per Kilogram
mg/kg = Milligrams per Kilogram
mg/L = Milligrams per Liter
ug/m3 = Micrograms per Cubic Meter
ug/L = Micrograms per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
J = The identification of the analyte is acceptable; the reported value is an estimate.
R = The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
U = The analyte was not detected at or above the reporting limit.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

Project ID: THDB7C7 Project Desc: Tanglefoot Lane

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1	__	Air	DPT-1 (background location, 4-5' bgs)		10/04/2016	14:45			10/11/2016
2	__	Air	DPT-2 (4-5' bgs)		10/04/2016	16:20			10/11/2016
3	__	Air	DPT-3 (4-5' bgs)		10/05/2016	07:25			10/11/2016
4	__	Air	DPT-4 (4-5' bgs)		10/05/2016	08:45			10/11/2016
5	__	Air	DPT-5 (4-5' bgs)		10/05/2016	11:50			10/11/2016
6	__	Air	DPT-5 (4-5' bgs)		10/05/2016	13:40			10/11/2016
7	__	Air	DPT-7 (4-5' bgs)		10/05/2016	15:25			10/11/2016
8	__	Air	DPT-8 (4-5' bgs)		10/05/2016	17:00			10/11/2016
9	__	Air	DPT-9 (4-5' bgs)		10/05/2016	17:52			10/11/2016
10	__	Air	DPT-10 (4-5' bgs)		10/06/2016	08:40			10/11/2016
11	__	Air	DPT-11 (4-5' bgs)		10/06/2016	10:35			10/11/2016
12	__	Air	DPT-13 (4-5' bgs)		10/06/2016	13:42			10/11/2016
13	__	Air	DPT-15 (4-5' bgs)		10/07/2016	08:00			10/11/2016
18	FB	Air	Air Field Blank sample		10/07/2016	16:45			10/11/2016
101	__	Solid	SWS-1		10/06/2016	13:00			10/11/2016
102	__	Solid	SWS-3		10/06/2016	15:40			10/11/2016
103	__	Solid	SWS-2		10/06/2016	16:40			10/11/2016
104	__	Solid	SWS-4		10/07/2016	08:20			10/11/2016
105	__	Solid	SS-1		10/07/2016	10:00			10/11/2016
106	__	Solid	SS-2		10/07/2016	11:15			10/11/2016
107	__	Solid	SS-3		10/07/2016	11:32			10/11/2016
108	__	Solid	SS-4		10/07/2016	11:56			10/11/2016
109	__	Solid	SS-5		10/07/2016	14:50			10/11/2016
110	__	Solid	SS-6		10/07/2016	15:23			10/11/2016
111	__	Solid	SS-7		10/07/2016	15:52			10/11/2016
201	__	Water	DPT-2 (34-38' bgs)		10/04/2016	17:50			10/07/2016
202	__	Water	DPT-3 (40-44' bgs)		10/05/2016	08:00			10/07/2016
203	__	Water	DPT-4 (32-36' bgs)		10/05/2016	09:20			10/07/2016
204	__	Water	DPT-5 (28-32' bgs)		10/05/2016	12:50			10/07/2016
205	__	Water	DPT-6 (36-40' bgs)		10/05/2016	14:30			10/07/2016
206	__	Water	DPT-9 (36-40' bgs)		10/06/2016	07:30			10/07/2016
207	__	Water	DPT-10 (36-40' bgs)		10/06/2016	09:20			10/11/2016
208	__	Water	SWS-1		10/06/2016	12:45			10/11/2016
209	__	Water	SWS-3		10/06/2016	15:30			10/11/2016
210	__	Water	DPT-14 (28-32' bgs)		10/06/2016	15:50			10/07/2016
211	__	Water	SWS-2		10/06/2016	16:30			10/11/2016
212	__	Water	SWS-4		10/07/2016	08:10			10/11/2016
213	__	Water	DPT-15 (40-44' bgs)		10/07/2016	09:00			10/11/2016
214	__	Water	SPT-16 (16-20' bgs)		10/07/2016	10:30			10/11/2016
215	__	Water	DPT-17 (16-20' bgs)		10/07/2016	11:20			10/11/2016
216	__	Water	Rinsate Blank		10/07/2016	12:18			10/11/2016
225	FB	Water	Water Trip Blank sample		09/28/2016	14:30			10/07/2016

Analysis	Comments About Results For This Analysis

1 VOCs in Air at Ambient Levels by GC/MS

Lab: RASP Contract Lab (Out-Source)

Method: Similar to EPA Region 7 RLAB Method 3230.4G (see comments)

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 18-FB

Comments:
Samples 7219-5 7219-7, 7219-9, & 7219-13 required dilutions due to target compound concentrations.

Sample 7219-18FB was received under vacuum and required pressurization to analyze.

1 Herbicides in Soil by GC/EC

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:
2,4,5-T was UJ-coded in sample -101 and 2,4-D was UJ-coded in sample -110. These analytes were not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low recoveries of the surrogate analytes. The actual reporting limits for these analytes may be higher than the reported values.

2,4,5-T and 2,4-D were UJ-coded in sample -101. These analytes were not found in the sample at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low recoveries of these analytes in the laboratory matrix spike. The actual reporting limits for these analytes may be higher than the reported values.

1 Mercury in Soil or Sediment

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:

1 Metals in Solids by ICP-AES

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Analysis	Comments About Results For This Analysis

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:

Negative arsenic contamination was found in the preparation and /or calibration blanks. Only samples containing this analyte at a level greater than five times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than five times the contamination in the blank have the result J-coded indicating that the reported values are estimates. Samples affected were: -101, -102, -104, -106, -107, -108, -109, -110, and -111.

Potassium in sample -107 and selenium in samples -101, -102, -103, -104, -105, -106, -107, -108, -109, -110, and -111 were UJ-coded. These analytes were not found in the samples at or above the reporting limits, however, the reporting limits are an estimate (UJ-coded) due to negative recoveries of these analytes in the interference check samples (ICS) which were not present in the ICS solution but whose absolute values were greater than the method detection limits (MDL), therefore, a possibility of false negatives exists. The actual reporting limits may be higher than the reported values.

Selenium (66%, 75%-125%) was UJ-coded in sample -101. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual reporting limit for this analyte may be higher than the reported value.

1 Pesticides in Soil by GC/EC

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:

DDE was J-coded in samples -102 and -105. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to resolution check outliers.

Endrin Ketone was J-coded in sample -108. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of this analyte in the PE sample. The actual concentration for this analyte may be lower than the reported value.

1 Semi-Volatile Organic Compounds in Soil

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Analysis Comments About Results For This Analysis

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:

Hexachloroethane, Hexachlorocyclopentadiene, 2,4-Dinitrophenol and 4,6-Dinitro-2-Methylphenol were UJ-coded in samples -101 and -105 through -111. 4-Nitrophenol was UJ-coded in samples -105 through -111. These analytes were not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to the continuing calibration checks not meeting accuracy specifications. The actual reporting limits for these analytes may be higher than the reported values.

4-Nitrophenol was J-coded in sample -101. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for this analyte may be higher than the reported value.

1,4-Dioxane was UJ-coded in samples -101, -102, -105, -108, -109 and -111. 4-Chloroanaline, Hexachlorocyclopentadiene and 3,3'-Dichlorobenzidine were UJ-coded in sample -104. 4,6-Dinitro-2-Methylphenol was UJ coded in samples -108, -109 and -110. These analytes were not found in the sample at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low recovery of a surrogate analyte. The actual reporting limits for these analytes may be higher than the reported values.

Acenaphthene, 4-Chloro-3-Methylphenol, 2-Chlorophenol, 2,4-Dinitrotoluene, 4-Nitrophenol and Pyrene were J-coded in sample -101. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to low recoveries of these analytes in the laboratory matrix spikes. The actual concentration for these analytes may be higher than the reported value.

N-Nitro-di-n-Propylamine was UJ-coded in sample -101. This analyte was not found in the sample at or above the reporting limit; however, the reporting limit is an estimate (UJ-coded) due to low recovery of this analyte in the laboratory matrix spikes. The actual reporting limit for this analyte may be higher than the reported value.

Pentachlorophenol and Phenol had unacceptable responses in the laboratory matrix spike indicating that is was not possible to obtain valid results for these analytes. Results of 'N/A' were reported with an R-code. The results for these analytes, although below the RL (520 µg/kg), were detected in the sample above the MDL. Pentachlorophenol was reported at 480 µg/kg and Phenol was reported at 500 µg/kg (raw results). Due to the very low recoveries of these analytes in the matrix spike (-2% and -1%, respectively), the results may be above the reporting limits.

4-Chloro-3-Methylphenol, 2-Chlorophenol, 2,4-Dinitrotoluene, 4-Nitrophenol and Pyrene were J-coded in sample -101. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to poor precision obtained for these analytes in the laboratory matrix spike and matrix spike duplicate.

N-Nitro-di-n-Propylamine was UJ-coded in sample -101. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-

Analysis	Comments About Results For This Analysis

coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value. (Pentachlorophenol and Phenol, previously R-coded due to spike recoveries, would have been UJ-coded as well).

1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID

Lab: RASP Contract Lab (Out-Source)

Method: Similar to Modified version of SW846 Method 8015 (see comments)

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
108-__ 109-__ 110-__ 111-__

Comments:
ORO was UJ-coded in sample 7219-103. This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for this analyte may be higher than the reported value.

ORO was UJ-coded in sample 7219-107. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__

Comments:

1 Volatile TPH in Soil by GC/MS

Lab: RASP Contract Lab (Out-Source)

Method: Similar to Volatile TPH by GC/MS (see comments)

Basis: Dry

Samples: 101-__ 102-__ 103-__ 104-__

Comments:
(N/A)

1 Herbicides in Water by GC/EC

Analysis	Comments About Results For This Analysis

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 207-__ 208-__ 209-__ 210-__ 211-__
212-__ 213-__ 214-__ 215-__ 216-__

Comments:

1 Mercury - Dissolved, in Water

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 207-__ 208-__ 209-__ 210-__ 211-__
212-__ 213-__ 214-__ 215-__ 216-__

Comments:

1 Mercury in Water

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 207-__ 208-__ 209-__ 210-__ 211-__
212-__ 213-__ 214-__ 215-__ 216-__

Comments:

1 Metals - Dissolved, in Water by ICP/MS

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 207-__ 208-__ 209-__ 210-__ 211-__
212-__ 213-__ 214-__ 215-__ 216-__

Comments:

Slight zinc contamination was found in the preparation and/ or calibration blanks. Only samples containing this analyte at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample. Samples affected were: -204, -208, and -211.

1 Metals in Water by ICP/MS

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 207-__ 208-__ 209-__ 210-__ 211-__

Analysis Comments About Results For This Analysis

Samples: 212-__ 213-__ 214-__ 215-__ 216-__

Comments:
Selenium was UJ-coded in sample -213. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to high internal standard response. The actual reporting limit for this analyte may be higher than the reported value.

Slight zinc contamination was found in the preparation and/ or calibration blanks. Only samples containing this analyte at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limit has been raised to the level found in the sample. Samples affected were: -209.

1 Pesticides in Water by GC/EC

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 203-__ 204-__ 206-__ 207-__ 208-__ 209-__ 210-__
211-__ 212-__ 213-__ 214-__ 215-__ 216-__

Comments:

1 Semi-Volatile Organic Compounds in Water

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 202-__ 203-__ 204-__ 205-__ 206-__ 207-__ 208-__
209-__ 210-__ 211-__ 212-__ 213-__ 214-__ 215-__
216-__

Comments:
1,4-Dioxane was UJ-coded in sample -204. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of the surrogate analyte. The actual reporting limit for this analyte may be higher than the reported value.

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, Biphenyl, 2-Chloronaphthalene, 2-Nitroanaline, 3-Nitroanaline, 4-Nitroanaline, Dimethylphthalate, Acenaphthylene, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether and Fluorene were UJ-coded in sample -215. These analytes were not found in the sample at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low internal standard response.

bis(2-Chloroisopropyl)ether, Naphthalene, Acenaphthylene, Diethylphthalate,

Analysis Comments About Results For This Analysis

Hexachlorobenzene, Phenanthrene, Di-n-butylphthalate, Pyrene, Benzo(a)anthracene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene were biased low and were UJ-coded in samples -202 through -206 and -210. These analytes were not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low recoveries of these analytes in the PE sample. The actual reporting limits for these analytes may be higher than the reported values.

4-Chloroanaline and Atrazine were not detected in the PE sample. No control limits were given for these analyte, but the amount spiked (80 µg/L and 75 µg/L, respectively) were provided. 4-Chloroanaline and Atrazine had unacceptable responses in the PE sample indicating that is was not possible to obtain valid results for these analytes. Results of 'N/A' were reported with R-codes for all samples.

1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Lab: RASP Contract Lab (Out-Source)

Method: Similar to Modified version of SW846 Method 8015 (see comments)

Samples: 203-__ 204-__ 205-__ 206-__ 207-__ 208-__ 209-__
210-__ 211-__ 212-__ 213-__ 214-__ 215-__ 216-__

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 201-__ 202-__ 203-__ 204-__ 205-__ 206-__ 207-__
208-__ 209-__ 210-__ 211-__ 212-__ 213-__ 214-__
215-__ 216-__ 225-FB

Comments:
Sample -213 was diluted 1:100 prior to analysis due to high levels of target compounds. Therefore, the reporting limits for this sample was raised by a factor of 100.

1,1-Dichloroethene in sample -214; and 1,1,1-Trichloroethane and m and/or p-Xylene in sample -215 were below the RL in the dilutions of these samples. Therefore, the results for the undiluted ana1yses were reported for these analytes in these samples and were J-coded. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to the reported values exceeding the calibrated range of the instrument.

The pH of sample -201 (5) was above control limits (pH<2). Sample -201 was analyzed 1 day past its 7 day holding time. The results for analytes that were not found at or above the reporting limit were UJ-coded to indicate that the reporting limit is an estimated value. The actual reporting limit may be higher than the reported value.
Benzene, cis-1,2-Dichloroethene and Vinyl Chloride were reported with a J-code indicating that they are estimated values. The actual concentration of some or all analytes may have

Analysis	Comments About Results For This Analysis

been higher than the reported results.

cis-1,2-Dichloroethene and trans-1,2-Dichloroethene were J-coded in sample -214. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of a surrogate analyte in this sample. The actual concentration for these analytes may be lower than the reported values.

Benzene, Chlorobenzene and 1,1-Dichloroethene were UJ-coded in sample -203. These analytes were not found in the sample at or above the reporting limit, however, the reporting limits are an estimate (UJ-coded) due to poor precision obtained for these analytes in the laboratory matrix spike and matrix spike duplicate. The actual reporting limits for these analytes may be higher than the reported values.

1,2-Dibromo-3-Chloropropane had an unacceptable response in the PE sample indicating that is was not possible to obtain valid results for this analyte. Results of 'N/A' were reported with R-codes for all samples.

1 Volatile TPH in Water by GC/MS

Lab: RASP Contract Lab (Out-Source)

Method: Similar to Volatile TPH by GC/MS (see comments)

Samples:							
	201-__	202-__	203-__	204-__	205-__	206-__	207-__
	208-__	209-__	210-__	211-__	212-__	213-__	214-__
	215-__	216-__	225-FB				

Comments:
(N/A)

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 VOCs in Air at Ambient Levels by GC/MS					
Acetone	ug/m3	45.1	40.4	14.9	39.2
Benzene	ug/m3	2.4	1.92	1.98	1.05
Bromodichloromethane	ug/m3	3.35 U	3.35 U	3.35 U	3.35 U
Bromoform	ug/m3	5.17 U	5.17 U	5.17 U	5.17 U
Bromomethane	ug/m3	1.94 U	1.94 U	1.94 U	1.94 U
2-Butanone	ug/m3	8.87	7.99	1.47 U	10.1
Carbon Disulfide	ug/m3	2.49	1.56 U	1.56 U	3.8
Carbon Tetrachloride	ug/m3	0.41 U	0.44	0.41 U	0.41 U
Chlorobenzene	ug/m3	2.3 U	2.3 U	2.3 U	2.3 U
Chloroethane	ug/m3	1.32 U	1.32 U	1.32 U	1.32 U
Chloroform	ug/m3	2.44 U	2.44 U	36.3	2.44 U
Chloromethane	ug/m3	1.03 U	1.03 U	1.03 U	1.03 U
Dibromochloromethane	ug/m3	4.26 U	4.26 U	4.26 U	4.26 U
1,2-Dibromoethane	ug/m3	3.84 U	3.84 U	3.84 U	3.84 U
1,2-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,3-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,1-Dichloroethane	ug/m3	2.02 U	2.02 U	2.02 U	2.02 U
1,2-Dichloroethane	ug/m3	0.094 U	0.094 U	0.094 U	0.094 U
1,1-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
cis-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
trans-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
1,2-Dichloropropane	ug/m3	2.31 U	2.31 U	2.31 U	2.31 U
cis-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
trans-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
Ethyl Benzene	ug/m3	4.69	2.91	7.81	3.34
Heptane	ug/m3	5.61	2.21	23	2.46
Hexachlorobutadiene	ug/m3	5.33 U	5.33 U	5.33 U	5.33 U
Hexane	ug/m3	5.32	3.42	30.4	3.52
2-Hexanone	ug/m3	2.05 U	2.05 U	2.05 U	2.05 U
Isopropylbenzene	ug/m3	2.46 U	2.46 U	2.46 U	2.46 U
Methylene Chloride	ug/m3	8.7 U	8.7 U	8.7 U	8.7 U
4-Methyl-2-Pentanone	ug/m3	2.05 U	2.05 U	2.05 U	2.05 U
Naphthalene	ug/m3	4.77	2.62 U	2.62 U	2.62 U
Styrene	ug/m3	2.13 U	2.13 U	2.13 U	2.13 U
1,1,2,2-Tetrachloroethane	ug/m3	3.43 U	3.43 U	3.43 U	3.43 U
Tetrachloroethene	ug/m3	0.475	0.41 U	0.41 U	0.475
Toluene	ug/m3	9.42	5.27	13.6	6.06
1,2,4-Trichlorobenzene	ug/m3	3.71 U	3.71 U	3.71 U	3.71 U
1,1,1-Trichloroethane	ug/m3	2.73 U	2.73 U	2.73 U	2.73 U
1,1,2-Trichloroethane	ug/m3	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	ug/m3	0.43 U	0.43 U	0.43 U	0.43 U
1,1,2-Trichlorotrifluoroethane	ug/m3	3.83 U	3.83 U	3.83 U	106
1,2,4-Trimethylbenzene	ug/m3	11.8	8.5	8.89	7.27
1,3,5-Trimethylbenzene	ug/m3	2.9	2.46 U	2.46 U	2.46 U
Vinyl Chloride	ug/m3	0.16 U	0.16 U	0.16 U	0.16 U

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
m and/or p-Xylene	ug/m3	17.3	11.9	16.7	12.8
o-Xylene	ug/m3	5.9	4.04	6.21	4.12

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 VOCs in Air at Ambient Levels by GC/MS					
Acetone	ug/m3	57.5	15.8	137	46.9
Benzene	ug/m3	2.27	0.543	5.56	0.703
Bromodichloromethane	ug/m3	3.35 U	3.35 U	3.35 U	3.35 U
Bromoform	ug/m3	5.17 U	5.17 U	5.17 U	5.17 U
Bromomethane	ug/m3	1.94 U	1.94 U	1.94 U	1.94 U
2-Butanone	ug/m3	14.9	3.07	31	10.4
Carbon Disulfide	ug/m3	1.56 U	1.56 U	5.01	1.56 U
Carbon Tetrachloride	ug/m3	0.44	0.41 U	0.41 U	0.41 U
Chlorobenzene	ug/m3	2.3 U	2.3 U	2.3 U	2.3 U
Chloroethane	ug/m3	1.32 U	1.32 U	1.32 U	1.32 U
Chloroform	ug/m3	2.44 U	2.49	2.88	10.6
Chloromethane	ug/m3	1.03 U	1.03 U	1.03 U	1.03 U
Dibromochloromethane	ug/m3	4.26 U	4.26 U	4.26 U	4.26 U
1,2-Dibromoethane	ug/m3	3.84 U	3.84 U	3.84 U	3.84 U
1,2-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,3-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,1-Dichloroethane	ug/m3	2.02 U	2.02 U	2.02 U	2.02 U
1,2-Dichloroethane	ug/m3	0.094 U	0.094 U	0.094 U	0.094 U
1,1-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
cis-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
trans-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
1,2-Dichloropropane	ug/m3	2.31 U	2.31 U	2.31 U	2.31 U
cis-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
trans-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
Ethyl Benzene	ug/m3	2.86	2.17 U	14.4	2.34
Heptane	ug/m3	2.58	2.05 U	13.6	2.05 U
Hexachlorobutadiene	ug/m3	5.33 U	5.33 U	5.33 U	5.33 U
Hexane	ug/m3	8.17	14.8	21.5	3.84
2-Hexanone	ug/m3	2.05 U	2.05 U	2.05 U	2.05 U
Isopropylbenzene	ug/m3	2.46 U	2.46 U	2.46 U	2.46 U
Methylene Chloride	ug/m3	19.9	65.3	48.9	8.7 U
4-Methyl-2-Pentanone	ug/m3	2.05 U	2.05 U	2.99	2.05 U
Naphthalene	ug/m3	2.62 U	2.62 U	5.5	2.62 U
Styrene	ug/m3	2.13 U	2.13 U	2.13 U	2.13 U
1,1,2,2-Tetrachloroethane	ug/m3	3.43 U	3.43 U	3.43 U	3.43 U
Tetrachloroethene	ug/m3	0.41 U	1.22	1.15	0.41 U
Toluene	ug/m3	5.76	3.09	27.5	4.52
1,2,4-Trichlorobenzene	ug/m3	3.71 U	3.71 U	3.71 U	3.71 U
1,1,1-Trichloroethane	ug/m3	2.73 U	2.73 U	2.73 U	2.73 U
1,1,2-Trichloroethane	ug/m3	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	ug/m3	0.43 U	0.43 U	0.43 U	0.43 U
1,1,2-Trichlorotrifluoroethane	ug/m3	3.83 U	3.83 U	3.83 U	3.83 U
1,2,4-Trimethylbenzene	ug/m3	6.49	4.86	27.7	5.55
1,3,5-Trimethylbenzene	ug/m3	2.46 U	2.46 U	7.42	2.46 U
Vinyl Chloride	ug/m3	0.16 U	0.16 U	0.16 U	0.16 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
m and/or p-Xylene	ug/m3	11.4	7.29	54.7	9.33
o-Xylene	ug/m3	3.73	2.52	18.4	3.08

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 VOCs in Air at Ambient Levels by GC/MS					
Acetone	ug/m3	59	27.3	54.1	36.2
Benzene	ug/m3	33.7	0.766	1.18	1.63
Bromodichloromethane	ug/m3	3.35 U	3.35 U	3.35 U	3.35 U
Bromoform	ug/m3	5.17 U	5.17 U	5.17 U	5.17 U
Bromomethane	ug/m3	1.94 U	1.94 U	1.94 U	1.94 U
2-Butanone	ug/m3	19.1	6.81	10.5	8.7
Carbon Disulfide	ug/m3	1.56 U	1.56 U	1.56 U	2.46
Carbon Tetrachloride	ug/m3	0.41 U	0.41 U	0.44	0.41 U
Chlorobenzene	ug/m3	2.3 U	2.3 U	2.3 U	2.3 U
Chloroethane	ug/m3	1.32 U	1.32 U	1.32 U	1.32 U
Chloroform	ug/m3	2.44 U	2.44 U	2.44 U	2.44 U
Chloromethane	ug/m3	1.03 U	1.03 U	1.03 U	1.03 U
Dibromochloromethane	ug/m3	4.26 U	4.26 U	4.26 U	4.26 U
1,2-Dibromoethane	ug/m3	3.84 U	3.84 U	3.84 U	3.84 U
1,2-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,3-Dichlorobenzene	ug/m3	3 U	3 U	3 U	3 U
1,1-Dichloroethane	ug/m3	2.02 U	2.02 U	2.02 U	2.02 U
1,2-Dichloroethane	ug/m3	0.094 U	0.094 U	0.094 U	0.094 U
1,1-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
cis-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
trans-1,2-Dichloroethene	ug/m3	1.98 U	1.98 U	1.98 U	1.98 U
1,2-Dichloropropane	ug/m3	2.31 U	2.31 U	2.31 U	2.31 U
cis-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
trans-1,3-Dichloropropene	ug/m3	2.27 U	2.27 U	2.27 U	2.27 U
Ethyl Benzene	ug/m3	5.16	2.17 U	2.3	4.34
Heptane	ug/m3	22.3	2.09	2.25	4.67
Hexachlorobutadiene	ug/m3	5.33 U	5.33 U	5.33 U	5.33 U
Hexane	ug/m3	71.9	2.68	3.31	8.07
2-Hexanone	ug/m3	2.05 U	2.05 U	2.05 U	2.05 U
Isopropylbenzene	ug/m3	2.46 U	2.46 U	2.46 U	2.46 U
Methylene Chloride	ug/m3	8.7 U	8.7 U	8.7 U	8.7 U
4-Methyl-2-Pentanone	ug/m3	2.05 U	2.05 U	2.05 U	2.05 U
Naphthalene	ug/m3	2.62 U	2.62 U	2.62 U	2.72
Styrene	ug/m3	2.13 U	2.13 U	2.13 U	2.13 U
1,1,2,2-Tetrachloroethane	ug/m3	3.43 U	3.43 U	3.43 U	3.43 U
Tetrachloroethene	ug/m3	0.41 U	0.41 U	0.41 U	0.746
Toluene	ug/m3	19.6	3.47	5.2	7.16
1,2,4-Trichlorobenzene	ug/m3	3.71 U	3.71 U	3.71 U	3.71 U
1,1,1-Trichloroethane	ug/m3	2.73 U	2.73 U	2.73 U	2.73 U
1,1,2-Trichloroethane	ug/m3	0.15 U	0.15 U	0.15 U	0.15 U
Trichloroethene	ug/m3	0.43 U	0.43 U	0.43 U	0.43 U
1,1,2-Trichlorotrifluoroethane	ug/m3	3.83 U	3.83 U	3.83 U	3.83 U
1,2,4-Trimethylbenzene	ug/m3	13.1	3.88	5.06	11.2
1,3,5-Trimethylbenzene	ug/m3	3.29	2.46 U	2.46 U	2.7
Vinyl Chloride	ug/m3	0.16 U	0.16 U	0.16 U	0.16 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
m and/or p-Xylene	ug/m3	20.7	7.16	9.03	17.4
o-Xylene	ug/m3	6.86	2.34	2.99	5.95

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
1 VOCs in Air at Ambient Levels by GC/MS					
Acetone	ug/m3	14300 U	5.95 U		
Benzene	ug/m3	744 U	0.31 U		
Bromodichloromethane	ug/m3	8040 U	3.35 U		
Bromoform	ug/m3	12400 U	5.17 U		
Bromomethane	ug/m3	4660 U	1.94 U		
2-Butanone	ug/m3	3530 U	1.47 U		
Carbon Disulfide	ug/m3	3740 U	1.56 U		
Carbon Tetrachloride	ug/m3	984 U	0.41 U		
Chlorobenzene	ug/m3	5520 U	2.3 U		
Chloroethane	ug/m3	3170 U	1.32 U		
Chloroform	ug/m3	5860 U	2.44 U		
Chloromethane	ug/m3	2470 U	1.03 U		
Dibromochloromethane	ug/m3	10200 U	4.26 U		
1,2-Dibromoethane	ug/m3	9220 U	3.84 U		
1,2-Dichlorobenzene	ug/m3	7200 U	3 U		
1,3-Dichlorobenzene	ug/m3	7200 U	3 U		
1,1-Dichloroethane	ug/m3	4850 U	2.02 U		
1,2-Dichloroethane	ug/m3	226 U	0.094 U		
1,1-Dichloroethene	ug/m3	6660	1.98 U		
cis-1,2-Dichloroethene	ug/m3	22100	1.98 U		
trans-1,2-Dichloroethene	ug/m3	4750 U	1.98 U		
1,2-Dichloropropane	ug/m3	5540 U	2.31 U		
cis-1,3-Dichloropropene	ug/m3	5450 U	2.27 U		
trans-1,3-Dichloropropene	ug/m3	5450 U	2.27 U		
Ethyl Benzene	ug/m3	5210 U	2.17 U		
Heptane	ug/m3	4920 U	2.05 U		
Hexachlorobutadiene	ug/m3	12800 U	5.33 U		
Hexane	ug/m3	4220 U	3.24		
2-Hexanone	ug/m3	4920 U	2.05 U		
Isopropylbenzene	ug/m3	5900 U	2.46 U		
Methylene Chloride	ug/m3	20900 U	8.7 U		
4-Methyl-2-Pentanone	ug/m3	4920 U	2.05 U		
Naphthalene	ug/m3	6290 U	2.62 U		
Styrene	ug/m3	5110 U	2.13 U		
1,1,2,2-Tetrachloroethane	ug/m3	8230 U	3.43 U		
Tetrachloroethene	ug/m3	34200	0.41 U		
Toluene	ug/m3	4510 U	1.88 U		
1,2,4-Trichlorobenzene	ug/m3	8900 U	3.71 U		
1,1,1-Trichloroethane	ug/m3	538000	4.2		
1,1,2-Trichloroethane	ug/m3	360 U	0.15 U		
Trichloroethene	ug/m3	1080000	4.67		
1,1,2-Trichlorotrifluoroethane	ug/m3	14900	3.83 U		
1,2,4-Trimethylbenzene	ug/m3	5900 U	2.46 U		
1,3,5-Trimethylbenzene	ug/m3	5900 U	2.46 U		
Vinyl Chloride	ug/m3	384 U	0.16 U		

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
m and/or p-Xylene	ug/m3	10400 U	4.34 U		
o-Xylene	ug/m3	5210 U	2.17 U		
1 Herbicides in Soil by GC/EC					
2,4,5-T	ug/kg			52 UJ	54 U
2,4-D	ug/kg			52 UJ	54 U
1 Mercury in Soil or Sediment					
Mercury	mg/kg			0.15 U	0.15 U
1 Metals in Solids by ICP-AES					
Aluminum	mg/kg			8390	7690
Antimony	mg/kg			6.7 U	6.9 U
Arsenic	mg/kg			4.6 J	4.0 J
Barium	mg/kg			116	107
Beryllium	mg/kg			0.64	0.60
Cadmium	mg/kg			0.86	0.69
Calcium	mg/kg			12700	7870
Chromium	mg/kg			12.7	11.4
Cobalt	mg/kg			7.8	7.1
Copper	mg/kg			16.9	13.8
Iron	mg/kg			17300	14500
Lead	mg/kg			13.1	11.8
Magnesium	mg/kg			5260	3610
Manganese	mg/kg			648	372
Nickel	mg/kg			17.3	15.8
Potassium	mg/kg			697	615
Selenium	mg/kg			3.9 UJ	4.0 UJ
Silver	mg/kg			1.1 U	1.2 U
Sodium	mg/kg			561 U	576 U
Thallium	mg/kg			2.8 U	2.9 U
Vanadium	mg/kg			24.0	23.0
Zinc	mg/kg			52.7	40.4
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg			2.7 U	2.7 U
Aroclor 1016	ug/kg			52 U	53 U
Aroclor 1221	ug/kg			52 U	53 U
Aroclor 1232	ug/kg			52 U	53 U
Aroclor 1242	ug/kg			52 U	53 U
Aroclor 1248	ug/kg			52 U	53 U
Aroclor 1254	ug/kg			52 U	53 U
Aroclor 1260	ug/kg			52 U	53 U
Aroclor 1262	ug/kg			52 U	53 U
Aroclor 1268	ug/kg			52 U	53 U
A-BHC	ug/kg			2.7 U	2.7 U
B-BHC	ug/kg			2.7 U	6.0
D-BHC	ug/kg			2.7 U	2.7 U
G-BHC	ug/kg			2.7 U	2.7 U

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
cis-Chlordane	ug/kg			2.7 U	2.7 U
trans-Chlordane	ug/kg			2.7 U	2.7 U
p,p'-DDD	ug/kg			5.2 U	5.3 U
p,p'-DDE	ug/kg			5.2 U	9.1 J
p,p'-DDT	ug/kg			5.2 U	5.3 U
Dieldrin	ug/kg			5.2 U	5.3 U
Endosulfan I	ug/kg			2.7 U	2.7 U
Endosulfan II	ug/kg			5.2 U	5.3 U
Endosulfan Sulfate	ug/kg			5.2 U	5.3 U
Endrin	ug/kg			5.2 U	5.3 U
Endrin Aldehyde	ug/kg			5.2 U	6.4
Endrin Ketone	ug/kg			5.2 U	5.3 U
Heptachlor	ug/kg			2.7 U	2.7 U
Heptachlor Epoxide	ug/kg			2.7 U	2.7 U
p,p'-Methoxychlor	ug/kg			27 U	27 U
Toxaphene	ug/kg			270 U	270 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg			660 J	270 U
Acenaphthylene	ug/kg			260 U	270 U
Acetophenone	ug/kg			520 U	530 U
Anthracene	ug/kg			260 U	270 U
Atrazine	ug/kg			520 U	530 U
Benzaldehyde	ug/kg			520 U	530 U
Benzo(a)anthracene	ug/kg			260 U	270 U
Benzo(a)pyrene	ug/kg			260 U	270 U
Benzo(b)fluoranthene	ug/kg			390	270 U
Benzo(g,h,i)perylene	ug/kg			260 U	270 U
Benzo(k)fluoranthene	ug/kg			260 U	270 U
Biphenyl	ug/kg			260 U	270 U
bis(2-Chloroethoxy)methane	ug/kg			260 U	270 U
bis(2-Chloroethyl)ether	ug/kg			520 U	530 U
bis(2-Chloroisopropyl)ether	ug/kg			520 U	530 U
bis(2-Ethylhexyl)phthalate	ug/kg			260 U	270 U
4-Bromophenyl-phenylether	ug/kg			260 U	270 U
Butylbenzylphthalate	ug/kg			260 U	270 U
Caprolactam	ug/kg			520 U	530 U
Carbazole	ug/kg			520 U	530 U
4-Chloro-3-methylphenol	ug/kg			660 J	270 U
4-Chloroaniline	ug/kg			520 U	530 U
2-Chloronaphthalene	ug/kg			260 U	270 U
2-Chlorophenol	ug/kg			600 J	270 U
4-Chlorophenyl-phenylether	ug/kg			260 U	270 U
Chrysene	ug/kg			260 U	270 U
Di-n-butylphthalate	ug/kg			260 U	270 U
Di-n-octylphthalate	ug/kg			520 U	530 U

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
Dibenz(a,h)anthracene	ug/kg			260 U	270 U
Dibenzofuran	ug/kg			260 U	270 U
3,3'-Dichlorobenzidine	ug/kg			520 U	530 U
2,4-Dichlorophenol	ug/kg			260 U	270 U
Diethylphthalate	ug/kg			260 U	270 U
2,4-Dimethylphenol	ug/kg			260 U	270 U
Dimethylphthalate	ug/kg			260 U	270 U
4,6-Dinitro-2-methylphenol	ug/kg			520 UJ	530 U
2,4-Dinitrophenol	ug/kg			520 UJ	530 U
2,4-Dinitrotoluene	ug/kg			610 J	270 U
2,6-Dinitrotoluene	ug/kg			260 U	270 U
1,4-Dioxane	ug/kg			100 UJ	110 UJ
Fluoranthene	ug/kg			520 U	530 U
Fluorene	ug/kg			260 U	270 U
Hexachlorobenzene	ug/kg			260 U	270 U
Hexachlorobutadiene	ug/kg			260 U	270 U
Hexachlorocyclopentadiene	ug/kg			520 UJ	530 U
Hexachloroethane	ug/kg			260 UJ	270 U
Indeno(1,2,3-cd)pyrene	ug/kg			260 U	270 U
Isophorone	ug/kg			260 U	270 U
2-Methylnaphthalene	ug/kg			260 U	270 U
2-Methylphenol	ug/kg			520 U	530 U
4-Methylphenol	ug/kg			520 U	530 U
Naphthalene	ug/kg			260 U	270 U
2-Nitroaniline	ug/kg			260 U	270 U
3-Nitroaniline	ug/kg			520 U	530 U
4-Nitroaniline	ug/kg			520 U	530 U
Nitrobenzene	ug/kg			260 U	270 U
2-Nitrophenol	ug/kg			260 U	270 U
4-Nitrophenol	ug/kg			670 J	530 U
N-nitroso-di-n-propylamine	ug/kg			260 UJ	270 U
N-nitrosodiphenylamine	ug/kg			260 U	270 U
Pentachlorophenol	ug/kg			N/A R	530 U
Phenanthrene	ug/kg			260 U	270 U
Phenol	ug/kg			N/A R	530 U
Pyrene	ug/kg			1000 J	270 U
1,2,4,5-Tetrachlorobenzene	ug/kg			260 U	270 U
2,4,5-Trichlorophenol	ug/kg			260 U	270 U
2,4,6-Trichlorophenol	ug/kg			260 U	270 U
1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID					
TPH DRO	mg/kg			13.6 U	12.3 U
TPH ORO	mg/kg			138	99.6 U
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg			39 U	23 U
Benzene	ug/kg			20 U	12 U

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
Bromochloromethane	ug/kg			20 U	12 U
Bromodichloromethane	ug/kg			20 U	12 U
Bromoform	ug/kg			20 U	12 U
Bromomethane	ug/kg			20 U	12 U
2-Butanone	ug/kg			39 U	23 U
Carbon Disulfide	ug/kg			20 U	12 U
Carbon Tetrachloride	ug/kg			20 U	12 U
Chlorobenzene	ug/kg			20 U	12 U
Chloroethane	ug/kg			20 U	12 U
Chloroform	ug/kg			20 U	12 U
Chloromethane	ug/kg			20 U	12 U
Cyclohexane	ug/kg			20 U	12 U
1,2-Dibromo-3-Chloropropane	ug/kg			20 U	12 U
Dibromochloromethane	ug/kg			20 U	12 U
1,2-Dibromoethane	ug/kg			20 U	12 U
1,2-Dichlorobenzene	ug/kg			20 U	12 U
1,3-Dichlorobenzene	ug/kg			20 U	12 U
1,4-Dichlorobenzene	ug/kg			20 U	12 U
Dichlorodifluoromethane	ug/kg			20 U	12 U
1,1-Dichloroethane	ug/kg			20 U	12 U
1,2-Dichloroethane	ug/kg			20 U	12 U
1,1-Dichloroethene	ug/kg			20 U	12 U
cis-1,2-Dichloroethene	ug/kg			20 U	12 U
trans-1,2-Dichloroethene	ug/kg			20 U	12 U
1,2-Dichloropropane	ug/kg			20 U	12 U
cis-1,3-Dichloropropene	ug/kg			20 U	12 U
trans-1,3-Dichloropropene	ug/kg			20 U	12 U
Ethyl Benzene	ug/kg			20 U	12 U
2-Hexanone	ug/kg			39 U	23 U
Isopropylbenzene	ug/kg			20 U	12 U
Methyl Acetate	ug/kg			20 U	12 U
Methyl tert-butyl ether	ug/kg			20 U	12 U
Methylcyclohexane	ug/kg			20 U	12 U
Methylene Chloride	ug/kg			20 U	12 U
4-Methyl-2-Pentanone	ug/kg			39 U	23 U
Styrene	ug/kg			20 U	12 U
1,1,2,2-Tetrachloroethane	ug/kg			20 U	12 U
Tetrachloroethene	ug/kg			20 U	12 U
Toluene	ug/kg			20 U	12 U
1,2,3-Trichlorobenzene	ug/kg			20 U	12 U
1,2,4-Trichlorobenzene	ug/kg			20 U	12 U
1,1,1-Trichloroethane	ug/kg			20 U	12 U
1,1,2-Trichloroethane	ug/kg			20 U	12 U
Trichloroethene	ug/kg			20 U	12 U
Trichlorofluoromethane	ug/kg			20 U	12 U

Analysis/ Analyte	Units	13-__	18-FB	101-__	102-__
1,1,2-Trichlorotrifluoroethane	ug/kg			20 U	12 U
Vinyl Chloride	ug/kg			20 U	12 U
m and/or p-Xylene	ug/kg			20 U	12 U
o-Xylene	ug/kg			20 U	12 U
1 Volatile TPH in Soil by GC/MS					
TPH GRO	mg/kg			3.24 U	2.99 U

Analysis/ Analyte	Units	103-__	104-__	105-__	106-__
1 Herbicides in Soil by GC/EC					
2,4,5-T	ug/kg	49 U	46 U	45 U	42 U
2,4-D	ug/kg	49 U	46 U	45 U	42 U
1 Mercury in Soil or Sediment					
Mercury	mg/kg	0.14 U	0.14 U	0.74	0.12 U
1 Metals in Solids by ICP-AES					
Aluminum	mg/kg	8380	8160	7580	7100
Antimony	mg/kg	6.4 U	6.2 U	5.9 U	5.2 U
Arsenic	mg/kg	14.6	4.1 J	6.0	4.7 J
Barium	mg/kg	274	118	159	91.4
Beryllium	mg/kg	0.80	0.60	0.58	0.56
Cadmium	mg/kg	1.5	0.63	3.9	0.78
Calcium	mg/kg	5650	7060	4110	6880
Chromium	mg/kg	10.6	20.3	15.1	10.8
Cobalt	mg/kg	15.3	8.7	8.6	7.6
Copper	mg/kg	14.1	13.6	20.3	14.4
Iron	mg/kg	30100	14600	14200	14900
Lead	mg/kg	12.1	11.7	306	25.4
Magnesium	mg/kg	3190	3410	1850	4000
Manganese	mg/kg	2630	379	764	472
Nickel	mg/kg	19.8	16.0	17.2	16.2
Potassium	mg/kg	599	936	1500	728
Selenium	mg/kg	3.8 UJ	3.6 UJ	3.4 UJ	3.0 UJ
Silver	mg/kg	1.3	1.0 U	0.98 U	0.87 U
Sodium	mg/kg	537 U	650	489 U	434 U
Thallium	mg/kg	2.7 U	2.6 U	2.4 U	2.2 U
Vanadium	mg/kg	23.3	25.4	22.5	21.3
Zinc	mg/kg	45.3	39.7	123	49.3
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg	2.6 U	2.3 U	6.1	2.2 U
Aroclor 1016	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1221	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1232	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1242	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1248	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1254	ug/kg	50 U	46 U	560	57
Aroclor 1260	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1262	ug/kg	50 U	46 U	45 U	42 U
Aroclor 1268	ug/kg	50 U	46 U	45 U	42 U
A-BHC	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
B-BHC	ug/kg	2.6 U	2.5	11	3.4
D-BHC	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
G-BHC	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
cis-Chlordane	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
trans-Chlordane	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
p,p'-DDD	ug/kg	5.0 U	4.6 U	17	4.2 U

Analysis/ Analyte	Units	103-__	104-__	105-__	106-__
p,p'-DDE	ug/kg	5.0 U	4.6 U	19 J	4.2 U
p,p'-DDT	ug/kg	5.0 U	4.6 U	21	7.1
Dieldrin	ug/kg	5.0 U	4.6 U	8.7	4.2 U
Endosulfan I	ug/kg	2.6 U	2.3 U	8.4	2.4
Endosulfan II	ug/kg	5.0 U	4.6 U	8.6	4.2 U
Endosulfan Sulfate	ug/kg	5.0 U	4.6 U	4.5 U	4.2 U
Endrin	ug/kg	5.0 U	4.6 U	4.8	4.2 U
Endrin Aldehyde	ug/kg	5.0 U	4.6 U	14	4.2 U
Endrin Ketone	ug/kg	5.0 U	4.6 U	4.5 U	4.2 U
Heptachlor	ug/kg	2.6 U	2.3 U	2.3 U	2.2 U
Heptachlor Epoxide	ug/kg	2.6 U	2.3 U	2.8	2.2 U
p,p'-Methoxychlor	ug/kg	26 U	23 U	23 U	22 U
Toxaphene	ug/kg	260 U	230 U	230 U	220 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	250 U	230 U	230 U	210 U
Acenaphthylene	ug/kg	250 U	230 U	230 U	210 U
Acetophenone	ug/kg	500 U	460 U	450 U	420 U
Anthracene	ug/kg	250 U	230 U	230 U	210 U
Atrazine	ug/kg	500 U	460 U	450 U	420 U
Benzaldehyde	ug/kg	500 U	460 U	450 U	420 U
Benzo(a)anthracene	ug/kg	250 U	280	230 U	210 U
Benzo(a)pyrene	ug/kg	250 U	240	230 U	210 U
Benzo(b)fluoranthene	ug/kg	250 U	420	230 U	210 U
Benzo(g,h,i)perylene	ug/kg	250 U	230 U	230 U	210 U
Benzo(k)fluoranthene	ug/kg	250 U	230 U	230 U	210 U
Biphenyl	ug/kg	250 U	230 U	230 U	210 U
bis(2-Chloroethoxy)methane	ug/kg	250 U	230 U	230 U	210 U
bis(2-Chloroethyl)ether	ug/kg	500 U	460 U	450 U	420 U
bis(2-Chloroisopropyl)ether	ug/kg	500 U	460 U	450 U	420 U
bis(2-Ethylhexyl)phthalate	ug/kg	250 U	230 U	230 U	210 U
4-Bromophenyl-phenylether	ug/kg	250 U	230 U	230 U	210 U
Butylbenzylphthalate	ug/kg	250 U	230 U	230 U	210 U
Caprolactam	ug/kg	500 U	460 U	450 U	420 U
Carbazole	ug/kg	500 U	460 U	450 U	420 U
4-Chloro-3-methylphenol	ug/kg	250 U	230 U	230 U	210 U
4-Chloroaniline	ug/kg	500 U	460 UJ	450 U	420 U
2-Chloronaphthalene	ug/kg	250 U	230 U	230 U	210 U
2-Chlorophenol	ug/kg	250 U	230 U	230 U	210 U
4-Chlorophenyl-phenylether	ug/kg	250 U	230 U	230 U	210 U
Chrysene	ug/kg	250 U	340	230 U	210 U
Di-n-butylphthalate	ug/kg	250 U	230 U	230 U	210 U
Di-n-octylphthalate	ug/kg	500 U	460 U	450 U	420 U
Dibenz(a,h)anthracene	ug/kg	250 U	230 U	230 U	210 U
Dibenzofuran	ug/kg	250 U	230 U	230 U	210 U
3,3'-Dichlorobenzidine	ug/kg	500 U	460 UJ	450 U	420 U

Analysis/ Analyte	Units	103-__	104-__	105-__	106-__
2,4-Dichlorophenol	ug/kg	250 U	230 U	230 U	210 U
Diethylphthalate	ug/kg	250 U	230 U	230 U	210 U
2,4-Dimethylphenol	ug/kg	250 U	230 U	230 U	210 U
Dimethylphthalate	ug/kg	250 U	230 U	230 U	210 U
4,6-Dinitro-2-methylphenol	ug/kg	500 U	460 U	450 UJ	420 UJ
2,4-Dinitrophenol	ug/kg	500 U	460 U	450 UJ	420 UJ
2,4-Dinitrotoluene	ug/kg	250 U	230 U	230 U	210 U
2,6-Dinitrotoluene	ug/kg	250 U	230 U	230 U	210 U
1,4-Dioxane	ug/kg	100 U	92 U	91 UJ	84 U
Fluoranthene	ug/kg	500 U	860	450 U	420 U
Fluorene	ug/kg	250 U	230 U	230 U	210 U
Hexachlorobenzene	ug/kg	250 U	230 U	230 U	210 U
Hexachlorobutadiene	ug/kg	250 U	230 U	230 U	210 U
Hexachlorocyclopentadiene	ug/kg	500 U	460 UJ	450 UJ	420 UJ
Hexachloroethane	ug/kg	250 U	230 U	230 UJ	210 UJ
Indeno(1,2,3-cd)pyrene	ug/kg	250 U	230	230 U	210 U
Isophorone	ug/kg	250 U	230 U	230 U	210 U
2-Methylnaphthalene	ug/kg	250 U	230 U	230 U	210 U
2-Methylphenol	ug/kg	500 U	460 U	450 U	420 U
4-Methylphenol	ug/kg	500 U	460 U	450 U	420 U
Naphthalene	ug/kg	250 U	230 U	230 U	210 U
2-Nitroaniline	ug/kg	250 U	230 U	230 U	210 U
3-Nitroaniline	ug/kg	500 U	460 U	450 U	420 U
4-Nitroaniline	ug/kg	500 U	460 U	450 U	420 U
Nitrobenzene	ug/kg	250 U	230 U	230 U	210 U
2-Nitrophenol	ug/kg	250 U	230 U	230 U	210 U
4-Nitrophenol	ug/kg	500 U	460 U	450 UJ	420 UJ
N-nitroso-di-n-propylamine	ug/kg	250 U	230 U	230 U	210 U
N-nitrosodiphenylamine	ug/kg	250 U	230 U	230 U	210 U
Pentachlorophenol	ug/kg	500 U	460 U	450 U	420 U
Phenanthrene	ug/kg	250 U	620	230 U	210 U
Phenol	ug/kg	500 U	460 U	450 U	420 U
Pyrene	ug/kg	250 U	720	230 U	210 U
1,2,4,5-Tetrachlorobenzene	ug/kg	250 U	230 U	230 U	210 U
2,4,5-Trichlorophenol	ug/kg	250 U	230 U	230 U	210 U
2,4,6-Trichlorophenol	ug/kg	250 U	230 U	230 U	210 U
1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID					
TPH DRO	mg/kg	11.5 U	12.1 U	11.6 U	10.3 U
TPH ORO	mg/kg	92.9 UJ	96.4 U	94.5 U	85 U
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	150	78		
Benzene	ug/kg	6.7 U	5.4 U		
Bromochloromethane	ug/kg	6.7 U	5.4 U		
Bromodichloromethane	ug/kg	6.7 U	5.4 U		
Bromoform	ug/kg	6.7 U	5.4 U		

Analysis/ Analyte	Units	103-__	104-__	105-__	106-__
Bromomethane	ug/kg	6.7 U	5.4 U		
2-Butanone	ug/kg	21	20		
Carbon Disulfide	ug/kg	6.7 U	5.4 U		
Carbon Tetrachloride	ug/kg	6.7 U	5.4 U		
Chlorobenzene	ug/kg	6.7 U	5.4 U		
Chloroethane	ug/kg	6.7 U	5.4 U		
Chloroform	ug/kg	6.7 U	5.4 U		
Chloromethane	ug/kg	6.7 U	5.4 U		
Cyclohexane	ug/kg	6.7 U	5.4 U		
1,2-Dibromo-3-Chloropropane	ug/kg	6.7 U	5.4 U		
Dibromochloromethane	ug/kg	6.7 U	5.4 U		
1,2-Dibromoethane	ug/kg	6.7 U	5.4 U		
1,2-Dichlorobenzene	ug/kg	6.7 U	5.4 U		
1,3-Dichlorobenzene	ug/kg	6.7 U	5.4 U		
1,4-Dichlorobenzene	ug/kg	6.7 U	5.4 U		
Dichlorodifluoromethane	ug/kg	6.7 U	5.4 U		
1,1-Dichloroethane	ug/kg	6.7 U	5.4 U		
1,2-Dichloroethane	ug/kg	6.7 U	5.4 U		
1,1-Dichloroethene	ug/kg	6.7 U	5.4 U		
cis-1,2-Dichloroethene	ug/kg	6.7 U	5.4 U		
trans-1,2-Dichloroethene	ug/kg	6.7 U	5.4 U		
1,2-Dichloropropane	ug/kg	6.7 U	5.4 U		
cis-1,3-Dichloropropene	ug/kg	6.7 U	5.4 U		
trans-1,3-Dichloropropene	ug/kg	6.7 U	5.4 U		
Ethyl Benzene	ug/kg	6.7 U	5.4 U		
2-Hexanone	ug/kg	13 U	11 U		
Isopropylbenzene	ug/kg	6.7 U	5.4 U		
Methyl Acetate	ug/kg	6.7 U	5.4 U		
Methyl tert-butyl ether	ug/kg	6.7 U	5.4 U		
Methylcyclohexane	ug/kg	6.7 U	5.4 U		
Methylene Chloride	ug/kg	6.7 U	5.4 U		
4-Methyl-2-Pentanone	ug/kg	13 U	11 U		
Styrene	ug/kg	6.7 U	5.4 U		
1,1,2,2-Tetrachloroethane	ug/kg	6.7 U	5.4 U		
Tetrachloroethene	ug/kg	6.7 U	5.4 U		
Toluene	ug/kg	6.7 U	5.4 U		
1,2,3-Trichlorobenzene	ug/kg	6.7 U	5.4 U		
1,2,4-Trichlorobenzene	ug/kg	6.7 U	5.4 U		
1,1,1-Trichloroethane	ug/kg	6.7 U	5.4 U		
1,1,2-Trichloroethane	ug/kg	6.7 U	5.4 U		
Trichloroethene	ug/kg	6.7 U	5.4 U		
Trichlorofluoromethane	ug/kg	6.7 U	5.4 U		
1,1,2-Trichlorotrifluoroethane	ug/kg	6.7 U	5.4 U		
Vinyl Chloride	ug/kg	6.7 U	5.4 U		
m and/or p-Xylene	ug/kg	6.7 U	5.4 U		

Analysis/ Analyte	Units	103-__	104-__	105-__	106-__
o-Xylene	ug/kg	6.7 U	5.4 U		
1 Volatile TPH in Soil by GC/MS					
TPH GRO	mg/kg	3.1 U	3.24 U		

Analysis/ Analyte	Units	107-__	108-__	109-__	110-__
1 Herbicides in Soil by GC/EC					
2,4,5-T	ug/kg	38 U	41 U	44 U	46 U
2,4-D	ug/kg	38 U	41 U	44 U	46 UJ
1 Mercury in Soil or Sediment					
Mercury	mg/kg	0.11 U	0.16	0.12 U	0.13 U
1 Metals in Solids by ICP-AES					
Aluminum	mg/kg	1900	7500	5250	6140
Antimony	mg/kg	5.0 U	5.4 U	6.0 U	6.3 U
Arsenic	mg/kg	1.4 J	3.0 J	3.7 J	4.2 J
Barium	mg/kg	41.5	77.1	110	91.9
Beryllium	mg/kg	0.42 U	0.64	0.50 U	0.52 U
Cadmium	mg/kg	0.78	3.0	0.58	0.65
Calcium	mg/kg	4360	3260	8990	14100
Chromium	mg/kg	13.6	21.0	8.2	9.5
Cobalt	mg/kg	4.8	9.3	5.8	6.5
Copper	mg/kg	19.2	21.8	11.1	12.4
Iron	mg/kg	9880	18800	11300	11900
Lead	mg/kg	75.9	71.1	10.8	11.3
Magnesium	mg/kg	1390	1600	3820	6280
Manganese	mg/kg	165	490	506	458
Nickel	mg/kg	7.5	18.1	12.5	13.8
Potassium	mg/kg	417 UJ	760	678	668
Selenium	mg/kg	2.9 UJ	3.2 UJ	3.5 UJ	3.6 UJ
Silver	mg/kg	0.83 U	0.91 U	0.99 U	1.0 U
Sodium	mg/kg	417 U	453 U	495 U	521 U
Thallium	mg/kg	2.1 U	2.3 U	2.5 U	2.6 U
Vanadium	mg/kg	4.2 U	20.5	17.6	20.4
Zinc	mg/kg	112	72.1	36.6	37.9
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
Aroclor 1016	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1221	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1232	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1242	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1248	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1254	ug/kg	130	300	44 U	46 U
Aroclor 1260	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1262	ug/kg	39 U	41 U	44 U	46 U
Aroclor 1268	ug/kg	39 U	41 U	44 U	46 U
A-BHC	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
B-BHC	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
D-BHC	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
G-BHC	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
cis-Chlordane	ug/kg	2.0	2.3	2.3 U	2.4 U
trans-Chlordane	ug/kg	3.6	7.2	2.3 U	2.4 U
p,p'-DDD	ug/kg	3.9 U	6.4	4.4 U	4.6 U

Analysis/ Analyte	Units	107-__	108-__	109-__	110-__
p,p'-DDE	ug/kg	3.9 U	4.1	4.4 U	4.6 U
p,p'-DDT	ug/kg	8.5	32	4.4 U	4.6 U
Dieldrin	ug/kg	3.9 U	5.4	4.4 U	4.6 U
Endosulfan I	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
Endosulfan II	ug/kg	3.9 U	4.1 U	4.4 U	4.6 U
Endosulfan Sulfate	ug/kg	3.9 U	4.1 U	4.4 U	4.6 U
Endrin	ug/kg	3.9 U	4.1 U	4.4 U	4.6 U
Endrin Aldehyde	ug/kg	6.0	32	4.4 U	4.6 U
Endrin Ketone	ug/kg	3.9 U	5.6 J	4.4 U	4.6 U
Heptachlor	ug/kg	2.0 U	2.1 U	2.3 U	2.4 U
Heptachlor Epoxide	ug/kg	2.0 U	2.1 U	2.3 U	3.0
p,p'-Methoxychlor	ug/kg	20 U	21 U	23 U	24 U
Toxaphene	ug/kg	200 U	210 U	230 U	240 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	190 U	200 U	220 U	240 U
Acenaphthylene	ug/kg	190 U	200 U	220 U	240 U
Acetophenone	ug/kg	390 U	410 U	440 U	470 U
Anthracene	ug/kg	190 U	200 U	220 U	240 U
Atrazine	ug/kg	390 U	410 U	440 U	470 U
Benzaldehyde	ug/kg	390 U	410 U	440 U	470 U
Benzo(a)anthracene	ug/kg	190 U	200 U	220 U	240 U
Benzo(a)pyrene	ug/kg	190 U	200 U	220 U	240 U
Benzo(b)fluoranthene	ug/kg	190 U	200 U	230	400
Benzo(g,h,i)perylene	ug/kg	190 U	200 U	220 U	240 U
Benzo(k)fluoranthene	ug/kg	190 U	200 U	220 U	240 U
Biphenyl	ug/kg	190 U	200 U	220 U	240 U
bis(2-Chloroethoxy)methane	ug/kg	190 U	200 U	220 U	240 U
bis(2-Chloroethyl)ether	ug/kg	390 U	410 U	440 U	470 U
bis(2-Chloroisopropyl)ether	ug/kg	390 U	410 U	440 U	470 U
bis(2-Ethylhexyl)phthalate	ug/kg	250	200 U	220 U	240 U
4-Bromophenyl-phenylether	ug/kg	190 U	200 U	220 U	240 U
Butylbenzylphthalate	ug/kg	190 U	200 U	220 U	240 U
Caprolactam	ug/kg	390 U	410 U	440 U	470 U
Carbazole	ug/kg	390 U	410 U	440 U	470 U
4-Chloro-3-methylphenol	ug/kg	190 U	200 U	220 U	240 U
4-Chloroaniline	ug/kg	390 U	410 U	440 U	470 U
2-Chloronaphthalene	ug/kg	190 U	200 U	220 U	240 U
2-Chlorophenol	ug/kg	190 U	200 U	220 U	240 U
4-Chlorophenyl-phenylether	ug/kg	190 U	200 U	220 U	240 U
Chrysene	ug/kg	190 U	200 U	220 U	250
Di-n-butylphthalate	ug/kg	190 U	200 U	220 U	240 U
Di-n-octylphthalate	ug/kg	390 U	410 U	440 U	470 U
Dibenz(a,h)anthracene	ug/kg	190 U	200 U	220 U	240 U
Dibenzofuran	ug/kg	190 U	200 U	220 U	240 U
3,3'-Dichlorobenzidine	ug/kg	390 U	410 U	440 U	470 U

Analysis/ Analyte	Units	107-__	108-__	109-__	110-__
2,4-Dichlorophenol	ug/kg	190 U	200 U	220 U	240 U
Diethylphthalate	ug/kg	190 U	200 U	220 U	240 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	220 U	240 U
Dimethylphthalate	ug/kg	190 U	200 U	220 U	240 U
4,6-Dinitro-2-methylphenol	ug/kg	390 UJ	410 UJ	440 UJ	470 UJ
2,4-Dinitrophenol	ug/kg	390 UJ	410 UJ	440 UJ	470 UJ
2,4-Dinitrotoluene	ug/kg	190 U	200 U	220 U	240 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	220 U	240 U
1,4-Dioxane	ug/kg	78 U	81 UJ	88 UJ	94 U
Fluoranthene	ug/kg	390 U	410 U	440 U	470
Fluorene	ug/kg	190 U	200 U	220 U	240 U
Hexachlorobenzene	ug/kg	190 U	200 U	220 U	240 U
Hexachlorobutadiene	ug/kg	190 U	200 U	220 U	240 U
Hexachlorocyclopentadiene	ug/kg	390 UJ	410 UJ	440 UJ	470 UJ
Hexachloroethane	ug/kg	190 UJ	200 UJ	220 UJ	240 UJ
Indeno(1,2,3-cd)pyrene	ug/kg	190 U	200 U	220 U	240 U
Isophorone	ug/kg	190 U	200 U	220 U	240 U
2-Methylnaphthalene	ug/kg	190 U	200 U	220 U	240 U
2-Methylphenol	ug/kg	390 U	410 U	440 U	470 U
4-Methylphenol	ug/kg	390 U	410 U	440 U	470 U
Naphthalene	ug/kg	190 U	200 U	220 U	240 U
2-Nitroaniline	ug/kg	190 U	200 U	220 U	240 U
3-Nitroaniline	ug/kg	390 U	410 U	440 U	470 U
4-Nitroaniline	ug/kg	390 U	410 U	440 U	470 U
Nitrobenzene	ug/kg	190 U	200 U	220 U	240 U
2-Nitrophenol	ug/kg	190 U	200 U	220 U	240 U
4-Nitrophenol	ug/kg	390 UJ	410 UJ	440 UJ	470 UJ
N-nitroso-di-n-propylamine	ug/kg	190 U	200 U	220 U	240 U
N-nitrosodiphenylamine	ug/kg	190 U	200 U	220 U	240 U
Pentachlorophenol	ug/kg	390 U	410 U	440 U	470 U
Phenanthrene	ug/kg	190 U	200 U	220 U	240 U
Phenol	ug/kg	390 U	410 U	440 U	470 U
Pyrene	ug/kg	190 U	220	220	380
1,2,4,5-Tetrachlorobenzene	ug/kg	190 U	200 U	220 U	240 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	220 U	240 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	220 U	240 U
1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID					
TPH DRO	mg/kg	10.2 U	25.9	11.7 U	11.2 U
TPH ORO	mg/kg	80.1 UJ	151	93.4 U	89.3 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
1 Herbicides in Soil by GC/EC					
2,4,5-T	ug/kg	47 U			
2,4-D	ug/kg	47 U			
1 Mercury in Soil or Sediment					
Mercury	mg/kg	0.14 U			
1 Metals in Solids by ICP-AES					
Aluminum	mg/kg	5900			
Antimony	mg/kg	6.9 U			
Arsenic	mg/kg	3.4 J			
Barium	mg/kg	97.7			
Beryllium	mg/kg	0.57 U			
Cadmium	mg/kg	0.61			
Calcium	mg/kg	12300			
Chromium	mg/kg	9.3			
Cobalt	mg/kg	6.0			
Copper	mg/kg	13.4			
Iron	mg/kg	12000			
Lead	mg/kg	11.0			
Magnesium	mg/kg	5590			
Manganese	mg/kg	435			
Nickel	mg/kg	13.6			
Potassium	mg/kg	1140			
Selenium	mg/kg	4.0 UJ			
Silver	mg/kg	1.2 U			
Sodium	mg/kg	573 U			
Thallium	mg/kg	2.9 U			
Vanadium	mg/kg	19.6			
Zinc	mg/kg	44.2			
1 Pesticides in Soil by GC/EC					
Aldrin	ug/kg	2.4 U			
Aroclor 1016	ug/kg	47 U			
Aroclor 1221	ug/kg	47 U			
Aroclor 1232	ug/kg	47 U			
Aroclor 1242	ug/kg	47 U			
Aroclor 1248	ug/kg	47 U			
Aroclor 1254	ug/kg	47 U			
Aroclor 1260	ug/kg	47 U			
Aroclor 1262	ug/kg	47 U			
Aroclor 1268	ug/kg	47 U			
A-BHC	ug/kg	2.4 U			
B-BHC	ug/kg	2.4 U			
D-BHC	ug/kg	2.4 U			
G-BHC	ug/kg	2.4 U			
cis-Chlordane	ug/kg	2.4 U			
trans-Chlordane	ug/kg	2.4 U			
p,p'-DDD	ug/kg	4.7 U			

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
p,p'-DDE	ug/kg	4.7 U			
p,p'-DDT	ug/kg	4.7 U			
Dieldrin	ug/kg	4.7 U			
Endosulfan I	ug/kg	2.4 U			
Endosulfan II	ug/kg	4.7 U			
Endosulfan Sulfate	ug/kg	4.7 U			
Endrin	ug/kg	4.7 U			
Endrin Aldehyde	ug/kg	4.7 U			
Endrin Ketone	ug/kg	4.7 U			
Heptachlor	ug/kg	2.4 U			
Heptachlor Epoxide	ug/kg	2.4 U			
p,p'-Methoxychlor	ug/kg	24 U			
Toxaphene	ug/kg	240 U			
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	240 U			
Acenaphthylene	ug/kg	240 U			
Acetophenone	ug/kg	470 U			
Anthracene	ug/kg	240 U			
Atrazine	ug/kg	470 U			
Benzaldehyde	ug/kg	470 U			
Benzo(a)anthracene	ug/kg	240 U			
Benzo(a)pyrene	ug/kg	240 U			
Benzo(b)fluoranthene	ug/kg	250			
Benzo(g,h,i)perylene	ug/kg	240 U			
Benzo(k)fluoranthene	ug/kg	240 U			
Biphenyl	ug/kg	240 U			
bis(2-Chloroethoxy)methane	ug/kg	240 U			
bis(2-Chloroethyl)ether	ug/kg	470 U			
bis(2-Chloroisopropyl)ether	ug/kg	470 U			
bis(2-Ethylhexyl)phthalate	ug/kg	240 U			
4-Bromophenyl-phenylether	ug/kg	240 U			
Butylbenzylphthalate	ug/kg	240 U			
Caprolactam	ug/kg	470 U			
Carbazole	ug/kg	470 U			
4-Chloro-3-methylphenol	ug/kg	240 U			
4-Chloroaniline	ug/kg	470 U			
2-Chloronaphthalene	ug/kg	240 U			
2-Chlorophenol	ug/kg	240 U			
4-Chlorophenyl-phenylether	ug/kg	240 U			
Chrysene	ug/kg	240 U			
Di-n-butylphthalate	ug/kg	240 U			
Di-n-octylphthalate	ug/kg	470 U			
Dibenz(a,h)anthracene	ug/kg	240 U			
Dibenzofuran	ug/kg	240 U			
3,3'-Dichlorobenzidine	ug/kg	470 U			

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
2,4-Dichlorophenol	ug/kg	240 U			
Diethylphthalate	ug/kg	240 U			
2,4-Dimethylphenol	ug/kg	240 U			
Dimethylphthalate	ug/kg	240 U			
4,6-Dinitro-2-methylphenol	ug/kg	470 UJ			
2,4-Dinitrophenol	ug/kg	470 UJ			
2,4-Dinitrotoluene	ug/kg	240 U			
2,6-Dinitrotoluene	ug/kg	240 U			
1,4-Dioxane	ug/kg	95 UJ			
Fluoranthene	ug/kg	470 U			
Fluorene	ug/kg	240 U			
Hexachlorobenzene	ug/kg	240 U			
Hexachlorobutadiene	ug/kg	240 U			
Hexachlorocyclopentadiene	ug/kg	470 U			
Hexachloroethane	ug/kg	240 UJ			
Indeno(1,2,3-cd)pyrene	ug/kg	240 U			
Isophorone	ug/kg	240 U			
2-Methylnaphthalene	ug/kg	240 U			
2-Methylphenol	ug/kg	470 U			
4-Methylphenol	ug/kg	470 U			
Naphthalene	ug/kg	240 U			
2-Nitroaniline	ug/kg	240 U			
3-Nitroaniline	ug/kg	470 U			
4-Nitroaniline	ug/kg	470 U			
Nitrobenzene	ug/kg	240 U			
2-Nitrophenol	ug/kg	240 U			
4-Nitrophenol	ug/kg	470 UJ			
N-nitroso-di-n-propylamine	ug/kg	240 U			
N-nitrosodiphenylamine	ug/kg	240 U			
Pentachlorophenol	ug/kg	470 U			
Phenanthrene	ug/kg	240 U			
Phenol	ug/kg	470 U			
Pyrene	ug/kg	240 U			
1,2,4,5-Tetrachlorobenzene	ug/kg	240 U			
2,4,5-Trichlorophenol	ug/kg	240 U			
2,4,6-Trichlorophenol	ug/kg	240 U			
1 Semi-Volatile TPH (DRO & ORO) in Soil by GC/FID					
TPH DRO	mg/kg	12.3 U			
TPH ORO	mg/kg	97.2 U			
1 Herbicides in Water by GC/EC					
2,4,5-T	ug/L				1.0 U
2,4-D	ug/L				1.0 U
1 Mercury - Dissolved, in Water					
Mercury	ug/L				0.20 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
1 Mercury in Water					
Mercury	ug/L				0.20 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L				2.0 U
Arsenic	ug/L				2.5
Barium	ug/L				176
Beryllium	ug/L				1.0 U
Cadmium	ug/L				1.0 U
Chromium	ug/L				2.0 U
Cobalt	ug/L				1.0 U
Copper	ug/L				2.0 U
Lead	ug/L				1.0 U
Manganese	ug/L				213
Nickel	ug/L				1.2
Selenium	ug/L				5.0 U
Silver	ug/L				1.0 U
Thallium	ug/L				1.0 U
Vanadium	ug/L				5.0 U
Zinc	ug/L				24.5
1 Metals in Water by ICP/MS					
Antimony	ug/L				2.0 U
Arsenic	ug/L				3.8
Barium	ug/L				208
Beryllium	ug/L				1.0 U
Cadmium	ug/L				1.0 U
Chromium	ug/L				18.8
Cobalt	ug/L				8.9
Copper	ug/L				10.9
Lead	ug/L				17.9
Manganese	ug/L				260
Nickel	ug/L				12.7
Selenium	ug/L				5.0 U
Silver	ug/L				1.0 U
Thallium	ug/L				1.0 U
Vanadium	ug/L				25.0
Zinc	ug/L				83.8
1 Pesticides in Water by GC/EC					
Aldrin	ug/L				0.050 U
Aroclor 1016	ug/L				1.0 U
Aroclor 1221	ug/L				1.0 U
Aroclor 1232	ug/L				1.0 U
Aroclor 1242	ug/L				1.0 U
Aroclor 1248	ug/L				1.0 U
Aroclor 1254	ug/L				1.0 U
Aroclor 1260	ug/L				1.0 U
Aroclor 1262	ug/L				1.0 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
Aroclor 1268	ug/L				1.0 U
A-BHC	ug/L				0.050 U
B-BHC	ug/L				0.050 U
D-BHC	ug/L				0.050 U
G-BHC	ug/L				0.050 U
cis-Chlordane	ug/L				0.050 U
trans-Chlordane	ug/L				0.050 U
p,p'-DDD	ug/L				0.10 U
p,p'-DDE	ug/L				0.10 U
p,p'-DDT	ug/L				0.10 U
Dieldrin	ug/L				0.10 U
Endosulfan I	ug/L				0.050 U
Endosulfan II	ug/L				0.10 U
Endosulfan Sulfate	ug/L				0.10 U
Endrin	ug/L				0.10 U
Endrin Aldehyde	ug/L				0.10 U
Endrin Ketone	ug/L				0.10 U
Heptachlor	ug/L				0.050 U
Heptachlor Epoxide	ug/L				0.050 U
p,p'-Methoxychlor	ug/L				0.50 U
Toxaphene	ug/L				5.0 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L			5.0 U	5.0 U
Acenaphthylene	ug/L			5.0 UJ	5.0 UJ
Acetophenone	ug/L			10 U	10 U
Anthracene	ug/L			5.0 U	5.0 U
Atrazine	ug/L			N/A R	N/A R
Benzaldehyde	ug/L			10 U	10 U
Benzo(a)anthracene	ug/L			5.0 UJ	5.0 UJ
Benzo(a)pyrene	ug/L			5.0 UJ	5.0 UJ
Benzo(b)fluoranthene	ug/L			5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L			5.0 UJ	5.0 UJ
Benzo(k)fluoranthene	ug/L			5.0 UJ	5.0 UJ
Biphenyl	ug/L			5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L			5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L			10 U	10 U
bis(2-Chloroisopropyl)ether	ug/L			10 UJ	10 UJ
bis(2-Ethylhexyl)phthalate	ug/L			5.0 U	5.0 U
4-Bromophenyl-phenylether	ug/L			5.0 U	5.0 U
Butylbenzylphthalate	ug/L			5.0 U	5.0 U
Caprolactam	ug/L			10 U	10 U
Carbazole	ug/L			10 U	10 U
4-Chloro-3-methylphenol	ug/L			5.0 U	5.0 U
4-Chloroaniline	ug/L			N/A R	N/A R
2-Chloronaphthalene	ug/L			5.0 U	5.0 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
2-Chlorophenol	ug/L			5.0 U	5.0 U
4-Chlorophenyl-phenylether	ug/L			5.0 U	5.0 U
Chrysene	ug/L			5.0 U	5.0 U
Di-n-butylphthalate	ug/L			5.0 UJ	5.0 UJ
Di-n-octylphthalate	ug/L			10 U	10 U
Dibenz(a,h)anthracene	ug/L			5.0 UJ	5.0 UJ
Dibenzofuran	ug/L			5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L			10 U	10 U
2,4-Dichlorophenol	ug/L			5.0 U	5.0 U
Diethylphthalate	ug/L			5.0 UJ	5.0 UJ
2,4-Dimethylphenol	ug/L			5.0 U	5.0 U
Dimethylphthalate	ug/L			5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L			10 U	10 U
2,4-Dinitrophenol	ug/L			10 U	10 U
2,4-Dinitrotoluene	ug/L			5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L			5.0 U	5.0 U
1,4-Dioxane	ug/L			2.0 U	2.0 U
Fluoranthene	ug/L			10 U	10 U
Fluorene	ug/L			5.0 U	5.0 U
Hexachlorobenzene	ug/L			5.0 UJ	5.0 UJ
Hexachlorobutadiene	ug/L			5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L			10 U	10 U
Hexachloroethane	ug/L			5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L			5.0 U	5.0 U
Isophorone	ug/L			5.0 U	5.0 U
2-Methylnaphthalene	ug/L			5.0 U	5.0 U
2-Methylphenol	ug/L			10 U	10 U
4-Methylphenol	ug/L			10 U	10 U
Naphthalene	ug/L			5.0 UJ	5.0 UJ
2-Nitroaniline	ug/L			5.0 U	5.0 U
3-Nitroaniline	ug/L			10 U	10 U
4-Nitroaniline	ug/L			10 U	10 U
Nitrobenzene	ug/L			5.0 U	5.0 U
2-Nitrophenol	ug/L			5.0 U	5.0 U
4-Nitrophenol	ug/L			10 U	10 U
N-nitroso-di-n-propylamine	ug/L			5.0 U	5.0 U
N-nitrosodiphenylamine	ug/L			5.0 U	5.0 U
Pentachlorophenol	ug/L			10 U	10 U
Phenanthrene	ug/L			5.0 UJ	5.0 UJ
Phenol	ug/L			10 U	10 U
Pyrene	ug/L			5.0 UJ	5.0 UJ
1,2,4,5-Tetrachlorobenzene	ug/L			5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	ug/L			5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L			5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L			5.0 U	5.0 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L				0.5 U
TPH ORO	mg/L				2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L		5.0 UJ	5.0 U	5.0 U
Benzene	ug/L		1.3 J	0.50 U	0.50 UJ
Bromochloromethane	ug/L		0.50 UJ	0.50 U	0.50 U
Bromodichloromethane	ug/L		0.50 UJ	0.50 U	0.50 U
Bromoform	ug/L		0.50 UJ	0.50 U	0.50 U
Bromomethane	ug/L		0.50 UJ	0.50 U	0.50 U
2-Butanone	ug/L		5.0 UJ	5.0 U	5.0 U
Carbon Disulfide	ug/L		0.50 UJ	0.50 U	0.50 U
Carbon Tetrachloride	ug/L		0.50 UJ	0.50 U	0.50 U
Chlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 UJ
Chloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
Chloroform	ug/L		0.50 UJ	0.50 U	0.50 U
Chloromethane	ug/L		0.50 UJ	0.50 U	0.50 U
Cyclohexane	ug/L		0.50 UJ	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L		N/A R	N/A R	N/A R
Dibromochloromethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,2-Dibromoethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,1-Dichloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,2-Dichloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,1-Dichloroethene	ug/L		0.50 UJ	0.50 U	0.50 UJ
cis-1,2-Dichloroethene	ug/L		19 J	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L		0.50 UJ	0.50 U	0.50 U
1,2-Dichloropropane	ug/L		0.50 UJ	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L		0.50 UJ	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L		0.50 UJ	0.50 U	0.50 U
Ethyl Benzene	ug/L		0.50 UJ	0.50 U	0.50 U
2-Hexanone	ug/L		5.0 UJ	5.0 U	5.0 U
Isopropylbenzene	ug/L		0.50 UJ	0.50 U	0.50 U
Methyl Acetate	ug/L		0.50 UJ	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L		0.50 UJ	0.50 U	0.50 U
Methylcyclohexane	ug/L		0.50 UJ	0.50 U	0.50 U
Methylene Chloride	ug/L		0.50 UJ	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L		5.0 UJ	5.0 U	5.0 U
Styrene	ug/L		0.50 UJ	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
Tetrachloroethene	ug/L		0.50 UJ	0.50 U	0.50 U
Toluene	ug/L		0.50 UJ	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 U

Analysis/ Analyte	Units	111-__	201-__	202-__	203-__
1,2,4-Trichlorobenzene	ug/L		0.50 UJ	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L		0.50 UJ	0.50 U	0.50 U
Trichloroethene	ug/L		0.50 UJ	0.50 U	0.50 U
Trichlorofluoromethane	ug/L		0.50 UJ	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L		0.50 UJ	0.50 U	0.50 U
Vinyl Chloride	ug/L		8.0 J	0.50 U	0.50 U
m and/or p-Xylene	ug/L		0.50 UJ	0.50 U	0.50 U
o-Xylene	ug/L		0.50 UJ	0.50 U	0.50 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L		0.04 U	0.04 U	0.04 U

Analysis/ Analyte	Units	204-__	205-__	206-__	207-__
1 Herbicides in Water by GC/EC					
2,4,5-T	ug/L	1.0 U			1.0 U
2,4-D	ug/L	1.0 U			1.0 U
1 Mercury - Dissolved, in Water					
Mercury	ug/L	0.20 U			0.20 U
1 Mercury in Water					
Mercury	ug/L	0.20 U			0.20 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L	2.0 U			2.0 U
Arsenic	ug/L	1.0			1.2
Barium	ug/L	116			106
Beryllium	ug/L	1.0 U			1.0 U
Cadmium	ug/L	1.0 U			1.0 U
Chromium	ug/L	2.0 U			2.0 U
Cobalt	ug/L	1.0 U			1.0 U
Copper	ug/L	2.0 U			2.0 U
Lead	ug/L	1.0 U			1.0 U
Manganese	ug/L	347			270
Nickel	ug/L	1.0 U			3.0
Selenium	ug/L	5.0 U			5.0 U
Silver	ug/L	1.0 U			1.0 U
Thallium	ug/L	1.0 U			1.0 U
Vanadium	ug/L	5.0 U			5.0 U
Zinc	ug/L	2.9 U			26.9
1 Metals in Water by ICP/MS					
Antimony	ug/L	2.0 U			2.0 U
Arsenic	ug/L	4.3			1.1
Barium	ug/L	136			108
Beryllium	ug/L	1.0 U			1.0 U
Cadmium	ug/L	1.0 U			1.0 U
Chromium	ug/L	2.0			4.4
Cobalt	ug/L	2.6			1.0 U
Copper	ug/L	4.7			4.7
Lead	ug/L	4.5			1.0 U
Manganese	ug/L	610			270
Nickel	ug/L	7.4			4.0
Selenium	ug/L	5.0 U			5.0 U
Silver	ug/L	1.0 U			1.0 U
Thallium	ug/L	1.0 U			1.0 U
Vanadium	ug/L	5.0 U			5.0 U
Zinc	ug/L	24.3			27.6
1 Pesticides in Water by GC/EC					
Aldrin	ug/L	0.050 U		0.050 U	0.050 U
Aroclor 1016	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1221	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1232	ug/L	1.0 U		1.0 U	1.0 U

Analysis/ Analyte	Units	204-__	205-__	206-__	207-__
Aroclor 1242	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1248	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1254	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1260	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1262	ug/L	1.0 U		1.0 U	1.0 U
Aroclor 1268	ug/L	1.0 U		1.0 U	1.0 U
A-BHC	ug/L	0.050 U		0.050 U	0.050 U
B-BHC	ug/L	0.050 U		0.050 U	0.050 U
D-BHC	ug/L	0.050 U		0.050 U	0.050 U
G-BHC	ug/L	0.050 U		0.050 U	0.050 U
cis-Chlordane	ug/L	0.050 U		0.050 U	0.050 U
trans-Chlordane	ug/L	0.050 U		0.050 U	0.050 U
p,p'-DDD	ug/L	0.10 U		0.10 U	0.10 U
p,p'-DDE	ug/L	0.10 U		0.10 U	0.10 U
p,p'-DDT	ug/L	0.10 U		0.10 U	0.10 U
Dieldrin	ug/L	0.10 U		0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U		0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U		0.10 U	0.10 U
Endosulfan Sulfate	ug/L	0.10 U		0.10 U	0.10 U
Endrin	ug/L	0.10 U		0.10 U	0.10 U
Endrin Aldehyde	ug/L	0.10 U		0.10 U	0.10 U
Endrin Ketone	ug/L	0.10 U		0.10 U	0.10 U
Heptachlor	ug/L	0.050 U		0.050 U	0.050 U
Heptachlor Epoxide	ug/L	0.050 U		0.050 U	0.050 U
p,p'-Methoxychlor	ug/L	0.50 U		0.50 U	0.50 U
Toxaphene	ug/L	5.0 U		5.0 U	5.0 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Acetophenone	ug/L	10 U	10 U	10 U	10 U
Anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	N/A R	N/A R	N/A R	10 U
Benzaldehyde	ug/L	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Benzo(a)pyrene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Benzo(b)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Benzo(k)fluoranthene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Biphenyl	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	ug/L	10 UJ	10 UJ	10 UJ	10 U
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	204-__	205-__	206-__	207-__
Caprolactam	ug/L	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	N/A R	N/A R	N/A R	10 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Di-n-octylphthalate	ug/L	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Dibenzofuran	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U
Fluorene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U
Naphthalene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitrophenol	ug/L	10 U	10 U	10 U	10 U
N-nitroso-di-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-nitrosodiphenylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Phenol	ug/L	10 U	10 U	10 U	10 U

Analysis/ Analyte	Units	204-__	205-__	206-__	207-__
Pyrene	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
1,2,4,5-Tetrachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L	0.5 U	0.5 U	0.5 U	0.5 U
TPH ORO	mg/L	2 U	2 U	2 U	2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	N/A R	N/A R	N/A R	N/A R
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	204-__	205-__	206-__	207-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.99	0.50 U	0.89	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L	0.04 U	0.04 U	0.04 U	0.04 U

Analysis/ Analyte	Units	208-__	209-__	210-__	211-__
1 Herbicides in Water by GC/EC					
2,4,5-T	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2,4-D	ug/L	4.3	4.7	1.0 U	1.0 U
1 Mercury - Dissolved, in Water					
Mercury	ug/L	0.20 U	0.20 U	0.20 U	0.20 U
1 Mercury in Water					
Mercury	ug/L	0.20 U	0.20 U	0.20 U	0.20 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	1.4	1.7	11.7	2.0
Barium	ug/L	78.1	52.1	428	96.2
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Cobalt	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Copper	ug/L	2.0 U	2.1	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	ug/L	126	171	123	1530
Nickel	ug/L	1.1	1.1	1.5	3.8
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Zinc	ug/L	6.7 U	8.9	10.1	4.5 U
1 Metals in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	1.7	1.7	11.5	6.7
Barium	ug/L	86.2	57.2	449	647
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	4.1	6.8
Cobalt	ug/L	1.0 U	1.0 U	1.8	8.8
Copper	ug/L	2.6	2.5	4.9	12.1
Lead	ug/L	1.0 U	1.0 U	2.7	3.7
Manganese	ug/L	189	242	157	4960
Nickel	ug/L	1.3	1.1	7.1	15.9
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	5.0 U	5.0 U	5.2	10.3
Zinc	ug/L	8.4	7.8 U	34.1	43.8
1 Pesticides in Water by GC/EC					
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor 1016	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1232	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	208-__	209-__	210-__	211-__
Aroclor 1242	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1248	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1262	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1268	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
A-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
B-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
D-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
G-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
cis-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
trans-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
p,p'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
p,p'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
p,p'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlor	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor Epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
p,p'-Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Acetophenone	ug/L	10 U	10 U	10 U	10 U
Anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	10 U	10 U	N/A R	10 U
Benzaldehyde	ug/L	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Benzo(a)pyrene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Benzo(b)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Benzo(k)fluoranthene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Biphenyl	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	ug/L	10 U	10 U	10 UJ	10 U
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	208-__	209-__	210-__	211-__
Caprolactam	ug/L	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	10 U	10 U	N/A R	10 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Di-n-octylphthalate	ug/L	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Dibenzofuran	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U
Fluorene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U
Naphthalene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitrophenol	ug/L	10 U	10 U	10 U	10 U
N-nitroso-di-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-nitrosodiphenylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Phenol	ug/L	10 U	10 U	10 U	10 U

Analysis/ Analyte	Units	208-__	209-__	210-__	211-__
Pyrene	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
1,2,4,5-Tetrachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L	0.5 U	0.5 U	0.5 U	0.5 U
TPH ORO	mg/L	2 U	2 U	2 U	2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	6.3	7.8	5.0 U	5.0
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	N/A R	N/A R	N/A R	N/A R
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.59	0.50 U	1.4	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	208-__	209-__	210-__	211-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L	0.04 U	0.04 U	0.04 U	0.04 U

Analysis/ Analyte	Units	212-__	213-__	214-__	215-__
1 Herbicides in Water by GC/EC					
2,4,5-T	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2,4-D	ug/L	2.9	1.0 U	1.0 U	4.6
1 Mercury - Dissolved, in Water					
Mercury	ug/L	0.20 U	0.20 U	0.20 U	0.20 U
1 Mercury in Water					
Mercury	ug/L	0.20 U	0.21	0.20 U	0.20 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	1.9	1.0 U	2.9	3.7
Barium	ug/L	56.1	85.3	126	635
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Cobalt	ug/L	1.0 U	3.3	1.9	1.4
Copper	ug/L	5.9	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	ug/L	28.2	145	509	211
Nickel	ug/L	1.8	6.7	6.5	6.2
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Zinc	ug/L	10.1	16.9	39.7	13.7
1 Metals in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	2.1	10.4	12.0	4.0
Barium	ug/L	59.7	842	249	672
Beryllium	ug/L	1.0 U	8.2	1.2	1.0 U
Cadmium	ug/L	1.0 U	1.7	4.3	1.0 U
Chromium	ug/L	2.3	76.6	79.0	2.0 U
Cobalt	ug/L	1.0 U	148	41.6	1.3
Copper	ug/L	6.8	123	57.4	14.9
Lead	ug/L	1.0 U	147	187	13.7
Manganese	ug/L	38.3	5510	4390	233
Nickel	ug/L	2.4	181	75.5	7.6
Selenium	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	5.0 U	112	37.9	5.0 U
Zinc	ug/L	13.6	1050	229	48.4
1 Pesticides in Water by GC/EC					
Aldrin	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Aroclor 1016	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1221	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1232	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	212-__	213-__	214-__	215-__
Aroclor 1242	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1248	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1254	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1260	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1262	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor 1268	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
A-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
B-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
D-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
G-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
cis-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
trans-Chlordane	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
p,p'-DDD	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
p,p'-DDE	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
p,p'-DDT	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Dieldrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	ug/L	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlor	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor Epoxide	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
p,p'-Methoxychlor	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetophenone	ug/L	10 U	10 U	10 U	10 U
Anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	10 U	10 U	10 U	10 U
Benzaldehyde	ug/L	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Biphenyl	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
bis(2-Chloroethoxy)methane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	ug/L	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	212-__	213-__	214-__	215-__
Caprolactam	ug/L	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Chrysene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	ug/L	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
4,6-Dinitro-2-methylphenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	10 UJ
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
1,4-Dioxane	ug/L	2.0 U	160	3.2	60
Fluoranthene	ug/L	10 U	10 U	10 U	10 U
Fluorene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Hexachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 UJ
Hexachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	10	5.0 U	5.0 U
2-Methylphenol	ug/L	10 U	29	10 U	10 U
4-Methylphenol	ug/L	10 U	37	10 U	10 U
Naphthalene	ug/L	5.0 U	10	5.0 U	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
3-Nitroaniline	ug/L	10 U	10 U	10 U	10 UJ
4-Nitroaniline	ug/L	10 U	10 U	10 U	10 UJ
Nitrobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitrophenol	ug/L	10 U	10 U	10 U	10 UJ
N-nitroso-di-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-nitrosodiphenylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	ug/L	10 U	10 U	10 U	10 U

Analysis/ Analyte	Units	212-__	213-__	214-__	215-__
Pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4,5-Tetrachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2,3,4,6-Tetrachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L	0.5 U	0.5 U	0.5 U	0.5 U
TPH ORO	mg/L	2 U	2 U	2 U	2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	500 U	13	6.1
Benzene	ug/L	0.50 U	50 U	0.60	170
Bromochloromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	500 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	50 U	0.50 U	300
Chloroform	ug/L	0.50 U	50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	50 U	3.2	4.1
1,2-Dibromo-3-Chloropropane	ug/L	N/A R	N/A R	N/A R	N/A R
Dibromochloromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	50 U	2.1	12
1,2-Dichloroethane	ug/L	0.50 U	50 U	0.50 U	0.70
1,1-Dichloroethene	ug/L	0.50 U	320	45 J	3.9
cis-1,2-Dichloroethene	ug/L	0.50 U	50 U	150	12
trans-1,2-Dichloroethene	ug/L	0.50 U	50 U	8.8 J	1.3
1,2-Dichloropropane	ug/L	0.50 U	50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	50 U	3.1	11
2-Hexanone	ug/L	5.0 U	500 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	50 U	0.60	2.3
Methyl Acetate	ug/L	0.50 U	50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	212-__	213-__	214-__	215-__
4-Methyl-2-Pentanone	ug/L	5.0 U	500 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	83	15	1.3
Toluene	ug/L	0.50 U	4600	500	460
1,2,3-Trichlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	3000	290	28 J
1,1,2-Trichloroethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	6800	600	60
Trichlorofluoromethane	ug/L	0.50 U	50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	170	17	0.50 U
Vinyl Chloride	ug/L	0.50 U	50 U	6.1	19
m and/or p-Xylene	ug/L	0.50 U	66	13	28 J
o-Xylene	ug/L	0.50 U	50 U	4.0	9.3
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L	0.04 U	75.7	4.23	2.63

Analysis/ Analyte	Units	216-__	225-FB
1 Herbicides in Water by GC/EC			
2,4,5-T	ug/L	1.0 U	
2,4-D	ug/L	1.0 U	
1 Mercury - Dissolved, in Water			
Mercury	ug/L	0.20 U	
1 Mercury in Water			
Mercury	ug/L	0.20 U	
1 Metals - Dissolved, in Water by ICP/MS			
Antimony	ug/L	2.0 U	
Arsenic	ug/L	1.0 U	
Barium	ug/L	10.0 U	
Beryllium	ug/L	1.0 U	
Cadmium	ug/L	1.0 U	
Chromium	ug/L	2.0 U	
Cobalt	ug/L	1.0 U	
Copper	ug/L	2.0 U	
Lead	ug/L	1.0 U	
Manganese	ug/L	1.0 U	
Nickel	ug/L	1.0 U	
Selenium	ug/L	5.0 U	
Silver	ug/L	1.0 U	
Thallium	ug/L	1.0 U	
Vanadium	ug/L	5.0 U	
Zinc	ug/L	2.0 U	
1 Metals in Water by ICP/MS			
Antimony	ug/L	2.0 U	
Arsenic	ug/L	1.0 U	
Barium	ug/L	10.0 U	
Beryllium	ug/L	1.0 U	
Cadmium	ug/L	1.0 U	
Chromium	ug/L	2.0 U	
Cobalt	ug/L	1.0 U	
Copper	ug/L	2.0 U	
Lead	ug/L	1.0 U	
Manganese	ug/L	1.0 U	
Nickel	ug/L	1.0 U	
Selenium	ug/L	5.0 U	
Silver	ug/L	1.0 U	
Thallium	ug/L	1.0 U	
Vanadium	ug/L	5.0 U	
Zinc	ug/L	2.0 U	
1 Pesticides in Water by GC/EC			
Aldrin	ug/L	0.050 U	
Aroclor 1016	ug/L	1.0 U	
Aroclor 1221	ug/L	1.0 U	
Aroclor 1232	ug/L	1.0 U	

Analysis/ Analyte	Units	216-__	225-FB
Aroclor 1242	ug/L	1.0 U	
Aroclor 1248	ug/L	1.0 U	
Aroclor 1254	ug/L	1.0 U	
Aroclor 1260	ug/L	1.0 U	
Aroclor 1262	ug/L	1.0 U	
Aroclor 1268	ug/L	1.0 U	
A-BHC	ug/L	0.050 U	
B-BHC	ug/L	0.050 U	
D-BHC	ug/L	0.050 U	
G-BHC	ug/L	0.050 U	
cis-Chlordane	ug/L	0.050 U	
trans-Chlordane	ug/L	0.050 U	
p,p'-DDD	ug/L	0.10 U	
p,p'-DDE	ug/L	0.10 U	
p,p'-DDT	ug/L	0.10 U	
Dieldrin	ug/L	0.10 U	
Endosulfan I	ug/L	0.050 U	
Endosulfan II	ug/L	0.10 U	
Endosulfan Sulfate	ug/L	0.10 U	
Endrin	ug/L	0.10 U	
Endrin Aldehyde	ug/L	0.10 U	
Endrin Ketone	ug/L	0.10 U	
Heptachlor	ug/L	0.050 U	
Heptachlor Epoxide	ug/L	0.050 U	
p,p'-Methoxychlor	ug/L	0.50 U	
Toxaphene	ug/L	5.0 U	
1 Semi-Volatile Organic Compounds in Water			
Acenaphthene	ug/L	5.0 U	
Acenaphthylene	ug/L	5.0 U	
Acetophenone	ug/L	10 U	
Anthracene	ug/L	5.0 U	
Atrazine	ug/L	10 U	
Benzaldehyde	ug/L	10 U	
Benzo(a)anthracene	ug/L	5.0 U	
Benzo(a)pyrene	ug/L	5.0 U	
Benzo(b)fluoranthene	ug/L	5.0 U	
Benzo(g,h,i)perylene	ug/L	5.0 U	
Benzo(k)fluoranthene	ug/L	5.0 U	
Biphenyl	ug/L	5.0 U	
bis(2-Chloroethoxy)methane	ug/L	5.0 U	
bis(2-Chloroethyl)ether	ug/L	10 U	
bis(2-Chloroisopropyl)ether	ug/L	10 U	
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	
4-Bromophenyl-phenylether	ug/L	5.0 U	
Butylbenzylphthalate	ug/L	5.0 U	

Analysis/ Analyte	Units	216-__	225-FB
Caprolactam	ug/L	10 U	
Carbazole	ug/L	10 U	
4-Chloro-3-methylphenol	ug/L	5.0 U	
4-Chloroaniline	ug/L	10 U	
2-Chloronaphthalene	ug/L	5.0 U	
2-Chlorophenol	ug/L	5.0 U	
4-Chlorophenyl-phenylether	ug/L	5.0 U	
Chrysene	ug/L	5.0 U	
Di-n-butylphthalate	ug/L	5.0 U	
Di-n-octylphthalate	ug/L	10 U	
Dibenz(a,h)anthracene	ug/L	5.0 U	
Dibenzofuran	ug/L	5.0 U	
3,3'-Dichlorobenzidine	ug/L	10 U	
2,4-Dichlorophenol	ug/L	5.0 U	
Diethylphthalate	ug/L	5.0 U	
2,4-Dimethylphenol	ug/L	5.0 U	
Dimethylphthalate	ug/L	5.0 U	
4,6-Dinitro-2-methylphenol	ug/L	10 U	
2,4-Dinitrophenol	ug/L	10 U	
2,4-Dinitrotoluene	ug/L	5.0 U	
2,6-Dinitrotoluene	ug/L	5.0 U	
1,4-Dioxane	ug/L	2.4	
Fluoranthene	ug/L	10 U	
Fluorene	ug/L	5.0 U	
Hexachlorobenzene	ug/L	5.0 U	
Hexachlorobutadiene	ug/L	5.0 U	
Hexachlorocyclopentadiene	ug/L	10 U	
Hexachloroethane	ug/L	5.0 U	
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	
Isophorone	ug/L	5.0 U	
2-Methylnaphthalene	ug/L	5.0 U	
2-Methylphenol	ug/L	10 U	
4-Methylphenol	ug/L	10 U	
Naphthalene	ug/L	5.0 U	
2-Nitroaniline	ug/L	5.0 U	
3-Nitroaniline	ug/L	10 U	
4-Nitroaniline	ug/L	10 U	
Nitrobenzene	ug/L	5.0 U	
2-Nitrophenol	ug/L	5.0 U	
4-Nitrophenol	ug/L	10 U	
N-nitroso-di-n-propylamine	ug/L	5.0 U	
N-nitrosodiphenylamine	ug/L	5.0 U	
Pentachlorophenol	ug/L	10 U	
Phenanthrene	ug/L	5.0 U	
Phenol	ug/L	10 U	

Analysis/ Analyte	Units	216-__	225-FB
Pyrene	ug/L	5.0 U	
1,2,4,5-Tetrachlorobenzene	ug/L	5.0 U	
2,3,4,6-Tetrachlorophenol	ug/L	5.0 U	
2,4,5-Trichlorophenol	ug/L	5.0 U	
2,4,6-Trichlorophenol	ug/L	5.0 U	
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID			
TPH DRO	mg/L	0.5 U	
TPH ORO	mg/L	2 U	
1 VOCs in Water by GC/MS for Low Detection Limits			
Acetone	ug/L	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U
Chloroform	ug/L	2.4	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	N/A R	N/A R
Dibromochloromethane	ug/L	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U

Analysis/ Analyte	Units	216-__	225-FB
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U
1 Volatile TPH in Water by GC/MS			
TPH GRO	mg/L	0.04 U	0.04 U

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 05/01/2018

Subject: Transmittal of Sample Analysis Results for ASR #: 7782

Project ID: THB7C700

Project Description: Tanglefoot Lane - Removal Assessment

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch
Environmental Sciences & Technology Division

To: Todd Davis
SUPR/AERR

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic (.pdf only) transmittal in your records management system. The Regional Laboratory will now retain all of the original hardcopy documentation (e.g. COC[s] and the R7LIMS field sheet[s], etc.) according to our ENST records management system.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey. It is critical that we receive your response in accordance to RCRA and the laboratory accreditation.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

Project Manager: Todd Davis **Org:** SUPR/AERR **Phone:** 913-551-7749

Project ID: THB7C700

Project Desc: Tanglefoot Lane - Removal Assessment

Location: Bettendorf **State:** Iowa **Program:** Superfund

Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Purpose: Site Characterization **GPRA PRC:** 000DC6

Site Investigation (SI)/Removal Assessment (RA) sampling.

EPA PM (TD)/Sampler noted via email dated 2/2/18 that this ASR is not part of a litigation hold activity at this time.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

= Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

ug/m3 = Micrograms per Cubic Meter
mg/L = Milligrams per Liter
ug/L = Micrograms per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.
J = The identification of the analyte is acceptable; the reported value is an estimate.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
U = The analyte was not detected at or above the reporting limit.
O = Parameter not analyzed.

ASR Number: 7782 **Sample Information Summary** **05/01/2018**

Project ID: THB7C700 **Project Desc:** Tanglefoot Lane - Removal Assessment

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -		Air	(b) (6) [redacted]		03/19/2018	15:15	03/20/2018	14:39	03/23/2018
2 -		Air			03/19/2018	15:20	03/20/2018	14:40	03/23/2018
3 -		Air			03/19/2018	15:50	03/20/2018	15:20	03/23/2018
4 -		Air			03/20/2018	08:26	03/21/2018	08:02	03/23/2018
5 -		Air			03/20/2018	08:18	03/21/2018	08:00	03/23/2018
6 -		Air			03/20/2018	08:32	03/21/2018	08:04	03/23/2018
7 -		Air			03/20/2018	08:39	03/21/2018	07:50	03/23/2018
8 -		Air			03/20/2018	09:24	03/21/2018	08:40	03/23/2018
9 -		Air			03/20/2018	09:20	03/21/2018	08:37	03/23/2018
10 -		Air			03/20/2018	09:22	03/21/2018	08:39	03/23/2018
11 -		Air			03/20/2018	10:17	03/21/2018	09:24	03/23/2018
12 -		Air			03/20/2018	10:19	03/21/2018	09:26	03/23/2018
13 -		Air			03/20/2018	10:46	03/21/2018	09:38	03/23/2018
14 -		Air			03/20/2018	10:47	03/21/2018	09:40	03/23/2018
15 -		Air			03/20/2018	12:13	03/21/2018	11:32	03/23/2018
16 -		Air			03/20/2018	12:48	03/21/2018	11:55	03/23/2018
17 -		Air			03/20/2018	12:50	03/21/2018	11:57	03/23/2018
18 -		Air			03/20/2018	17:18	03/21/2018	16:49	03/23/2018
19 -		Air			03/20/2018	17:20	03/21/2018	16:53	03/23/2018
20 -		Air			03/21/2018	14:17	03/22/2018	13:47	03/23/2018
21 -		Air			03/21/2018	14:20	03/22/2018	13:50	03/23/2018
22 -		Air			03/21/2018	14:58	03/22/2018	14:01	03/23/2018
23 -		Air			03/21/2018	15:01	03/22/2018	14:04	03/23/2018
24 -		Air			03/21/2018	15:05	03/22/2018	14:06	03/23/2018
25 -		Air			03/21/2018	20:47	03/22/2018	19:53	03/23/2018
26 -		Air			03/21/2018	20:52	03/22/2018	19:55	03/23/2018
27 -	FB	Air			03/22/2018	22:00			03/23/2018
101 -		Water			03/21/2018	10:15			03/23/2018
101 -	FD	Water			03/21/2018	10:15			03/23/2018
102 -		Water			03/22/2018	10:15			03/23/2018
103 -		Water			03/22/2018	12:40			03/23/2018
104 -		Water			03/22/2018	14:20			03/23/2018
105 -		Water			03/22/2018	14:53			03/23/2018
106 -		Water			03/22/2018	16:40			03/23/2018
113 -	FB	Water	Field Blank		03/22/2018	17:30			03/23/2018
114 -	FB	Water	LDL VOA/TPH VOA (GRO) Trip Blank sample		03/22/2018	22:00			03/23/2018

Analysis **Comments About Results For This Analysis**

1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.4H

Samples:						
1-	2-	3-	4-	5-	6-	7-
8-	9-	10-	11-	12-	13-	14-
15-	16-	17-	18-	19-	20-	21-
22-	23-	24-	25-	26-	27-FB	

Comments:

Sample 22 did not have sufficient volume to perform this analysis with the normal size sample aliquot. The reporting limits were therefore increased by a factor of 7.46 for all analytes.

Vinyl Acetate was UJ-coded in samples 6, 8, 10-12, 15, 16, 22, 24 and 27-fb. Tetrahydrofuran was UJ-coded in samples 1-9, 13, 14, 16, 18, 20-26 and 27-fb. 1,4-Dioxane and 4-Ethyltoluene were UJ-coded in samples 1-26 and 27-fb. Styrene was UJ-coded in samples 1-10, 13-26 and 27-fb. 1,3,5-Trimethylbenzene was UJ-coded in samples 1-8, 10, 14, 15, 17-24, 26 and 27-fb. 1,2,4-Trimethylbenzene was UJ-coded in samples 2-4, 6, 8, 14, 17, 22-24, 26 and 27-fb. These analytes were not found in the samples at or above the reporting limits, however, the reporting limits are estimates (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limits may be higher than the reported values.

Vinyl Acetate was J-coded in samples 1-5, 7, 9, 13, 14, 17-21, 23, 25 and 26. Tetrahydrofuran was J-coded in samples 10-12, 15, 17 and 19. Styrene was J-coded in samples 11 and 12. 1,3,5-Trimethylbenzene was J-coded in samples 9, 11-13, 16 and 25. 1,2,4-Trimethylbenzene was J-coded in samples 1, 5, 7, 9-13, 15, 16, 18-21 and 25. Although the analytes in question have been positively identified in the samples, the quantitations are estimates (J-coded) due to the initial instrument calibration curve not meeting linearity specifications.

2-Butanone was UJ-coded in samples 16, 18, 22, 24 and 27-fb. 4-Methyl-2-Pentanone and Benzyl Chloride were UJ-coded in samples 15-26 and 27-fb. 2-Hexanone was UJ-coded in samples 1-26 and 27-fb. These analytes were not found in the samples at or above the reporting limits, however, the reporting limits are estimates (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limits for these analytes may be higher than the reported values.

2-Butanone was J-coded in samples 15, 17, 19-21, 23, 25 and 26. Although the analytes in question have been positively identified in the samples, the quantitations are estimates (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentrations for these analytes may be higher than the reported values.

2-Propanol was UJ-coded in samples 1, 5, 6, 8, 16, 18, 22, 24, 25 and 27-fb. 1,1,2-Trichloroethane, cis-1,3-Dichloropropene and 1,2-Dibromoethane were UJ-coded in samples 15-26 and 27-fb. Toluene was UJ-coded in samples 23, 24 and 27-fb. These analytes were not found in the samples at or above the reporting limits, however, the reporting limits are estimates (UJ-coded) due to low recoveries of these analytes in the

Analysis **Comments About Results For This Analysis**

laboratory control sample. The actual reporting limits for these analytes may be higher than the reported values.

2-Propanol was J-coded in samples 2-4, 7, 9-15, 17, 19-21, 23 and 26. Toluene was J-coded in samples 15-22, 25 and 26. Although the analytes in question have been positively identified in the samples, the quantitations are estimates (J-coded) due to low recoveries of these analytes in the laboratory control sample. The actual concentrations for these analytes may be higher than the reported values.

1 Acid Herbicides in Water by LCMSMS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3280.1C

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:
RL's for 2,4,5-T, Dichlorprop, and Triclopyr raised to 0.050ug/L to meet RL criteria for method update.

1 Mercury - Dissolved, in Water

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3121.23D applied to field filtered samples for "dissolved" results

Samples: 101- 101-FD 102- 103- 104- 105- 106-

Comments:

1 Mercury in Water

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3121.23D

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:
(N/A)

1 Metals - Dissolved, in Water by ICP/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3123.1D Applied to Field Filtered Samples for "Dissolved" Results

Samples: 101- 101-FD 102- 103- 104- 105- 106-

Comments:
(N/A)

Analysis	Comments About Results For This Analysis

1 Metals in Water by ICP/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3123.1D

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:

1 Pesticides and PCBs in Water by Twister GC/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.20D for Pesticides only

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:
Endrin Aldehyde was UJ-coded in all samples and its reporting limit has been raised from 0.1 ug/L to 0.5 ug/L. This analyte was not found in the samples at or above the raised reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limit may be higher than the reported value.

1 Pesticides in Water by GC/EC

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3240.2K

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:
Analysis for these samples/analytes is reported from LTAB Method 3230.20D, "Pesticides and PCBs in Water by Twister GC/MS." Thus, results of 'N/A' were reported with O-codes for this method.

1 Semi-Volatile Organic Compounds in Water

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.2H

Samples: 101- 101-FD 102- 103- 104- 105- 106- 113-FB

Comments:
3,3'-Dichlorobenzidine, Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene were UJ-coded in all samples. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration

Analysis **Comments About Results For This Analysis**

check and/or the initial calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Lab: REST Contract Lab (Out-Source)

Method: Similar to Modified version of SW846 Method 8015 (see comments)

Samples: 101-113-FB 101-FD 102- 103- 104- 105- 106-

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.13F

Samples: 101-113-FB 101-FD 114-FB 102- 103- 104- 105- 106-

Comments:
The vial analyzed for sample 105 was not preserved to pH of less than 2. As it was analyzed within the 7-day holding time established for unpreserved samples, no coding was needed.

Styrene, m- and/or p-Xylene and o-Xylene were UJ-coded in sample 102. These analytes were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory matrix spike. The actual reporting limit for these analytes may be higher than the reported value.

1 Volatile TPH in Water by GC/MS

Lab: REST Contract Lab (Out-Source)

Method: Similar to Volatile TPH by GC/MS (see comments)

Samples: 101-113-FB 101-FD 114-FB 102- 103- 104- 105- 106-

Comments:
(N/A)

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	5.5	19	22	21
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	0.56	0.46	1.7	0.50
Benzyl Chloride	ug/m3	4.2 U	4.2 U	4.2 U	4.2 U
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.53	0.45 U
2-Butanone	ug/m3	1.9 U	2.7	4.2	2.7
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.63 J	0.63 J	0.68 J	0.63 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	0.12 U	0.31	0.70	0.23
Chloromethane	ug/m3	0.42 U	1.8	2.8	1.8
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	3.2	3.4	3.0	3.4
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.10 U	0.17	0.31	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	1.1 U	1.2	4.1	1.1 U
Ethyl Benzene	ug/m3	2.4	0.88 U	0.88 U	0.88 U
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	0.71 U	0.71 U	0.79	0.71 U
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
2-Propanol	ug/m3	0.50 UJ	7.9 J	4.5 J	23 J
Propene	ug/m3	0.35 U	0.86	3.6	16
Styrene	ug/m3	0.86 UJ	0.86 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.34 U	0.34 U	0.34 U
Tetrahydrofuran	ug/m3	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ
Toluene	ug/m3	9.1	2.9	4.9	0.76 U
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.9	1.8	2.7	3.2
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	5.4 J	0.99 UJ	0.99 UJ	0.99 UJ
1,3,5-Trimethylbenzene	ug/m3	0.99 UJ	0.99 UJ	0.99 UJ	0.99 UJ
2,2,4-Trimethylpentane	ug/m3	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Acetate	ug/m3	0.85 J	1.2 J	3.2 J	2.1 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	12	1.8 U	2.1	1.8 U
o-Xylene	ug/m3	3.5	0.88 U	0.88 U	0.88 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	4.0	4.7	32	4.0
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	0.39	0.33	0.50	0.32
Benzyl Chloride	ug/m3	4.2 U	4.2 U	4.2 U	4.2 U
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	1.9 U	1.9 U	2.6	1.9 U
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.59 J	0.64 J	0.65 J	0.64 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	0.47	0.12 U	0.41	0.12
Chloromethane	ug/m3	0.42 U	1.7	1.4	1.8
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	3.2	3.5	15	3.6
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.55	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	1.1 U	1.1 U	6.8	1.1 U
Ethyl Benzene	ug/m3	1.5	0.88 U	0.88 U	0.88 U
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	0.71 U	0.71 U	0.71 U	0.71 U
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
2-Propanol	ug/m3	0.50 UJ	0.50 UJ	44 J	0.50 UJ
Propene	ug/m3	0.35 U	0.41	0.92	0.35 U
Styrene	ug/m3	0.86 UJ	0.86 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.34 U	0.67	0.34 U
Tetrahydrofuran	ug/m3	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ
Toluene	ug/m3	6.6	0.76 U	4.2	0.76 U
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.8	1.8	2.7	1.9
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	4.0 J	0.99 UJ	1.5 J	0.99 UJ
1,3,5-Trimethylbenzene	ug/m3	0.99 UJ	0.99 UJ	0.99 UJ	0.99 UJ
2,2,4-Trimethylpentane	ug/m3	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Acetate	ug/m3	1.2 J	0.72 UJ	4.2 J	0.72 UJ
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	8.5	1.8 U	1.8 U	1.8 U
o-Xylene	ug/m3	2.5	0.88 U	0.88 U	0.88 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	15	64	27	46
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	2.6	3.4	4.9	8.1
Benzyl Chloride	ug/m3	4.2 U	4.2 U	4.2 U	4.2 U
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	1.9 U	18	24	18
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.55 J	0.62 J	0.67 J	0.59 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	0.18	0.89	0.42	0.45
Chloromethane	ug/m3	0.65	1.8	1.5	2.0
Cyclohexane	ug/m3	1.3	1.4	0.76	2.5
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	3.2	3.3	5.1	7.5
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.35	3.2	0.12	0.18
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	1.1 U	11	2.2	15
Ethyl Benzene	ug/m3	3.6	2.1	3.2	5.1
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	2.8	2.4	2.1	5.1
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	6.8	6.8	4.4	15
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	1.2	8.6	17
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	1.7 U	2.1
2-Propanol	ug/m3	0.77 J	210 J	29 J	33 J
Propene	ug/m3	3.1	4.4	8.0	3.0
Styrene	ug/m3	0.86 UJ	0.86 UJ	1.9 J	2.1 J

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.34 U	21	24
Tetrahydrofuran	ug/m3	0.60 UJ	7.7 J	0.67 J	0.72 J
Toluene	ug/m3	18	15	28	42
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	4.5	3.8	1.7	1.6
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	6.2 J	3.2 J	6.4 J	7.2 J
1,3,5-Trimethylbenzene	ug/m3	1.2 J	0.99 UJ	1.1 J	1.3 J
2,2,4-Trimethylpentane	ug/m3	1.2	1.3	9.8	5.8
Vinyl Acetate	ug/m3	1.3 J	0.72 UJ	0.72 UJ	0.72 UJ
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	14	7.8	13	19
o-Xylene	ug/m3	4.4	2.6	4.4	6.2

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	5.0	33	66	4.4
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	0.55	0.64	4.4	0.62
Benzyl Chloride	ug/m3	4.2 U	4.2 U	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	2.2	4.5	8.5 J	1.9 UJ
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.54 J	0.61 J	0.53	0.32
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	0.12 U	1.1	0.54	0.32
Chloromethane	ug/m3	0.42 U	1.7	1.2	0.42 U
Cyclohexane	ug/m3	0.70 U	0.70 U	3.2	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 UJ	1.6 UJ
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.6	3.1	2.4	1.0 U
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.10 U	0.14	0.17	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 UJ	0.46 UJ
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	1.1 U	9.6	3.9	1.1 U
Ethyl Benzene	ug/m3	3.0	0.88 U	1.8	2.7
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	0.83 U	0.83 U	3.6	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	0.71 U	0.71 U	10	0.71 U
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	1.7 UJ	1.7 UJ
2-Propanol	ug/m3	0.54 J	7.1 J	8.3 J	0.50 UJ
Propene	ug/m3	0.35 U	1.0	2.4	0.35 U
Styrene	ug/m3	0.86 UJ	0.86 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.34 U	1.9	0.34 U
Tetrahydrofuran	ug/m3	0.60 UJ	0.60 UJ	11 J	0.60 UJ
Toluene	ug/m3	11	2.2	21 J	11 J
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 UJ	1.1 UJ
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.6	1.7	1.4	1.5
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	8.7 J	0.99 UJ	2.6 J	8.0 J
1,3,5-Trimethylbenzene	ug/m3	1.5 J	0.99 UJ	0.99 UJ	1.4 J
2,2,4-Trimethylpentane	ug/m3	1.0 U	1.0 U	3.0	1.0 U
Vinyl Acetate	ug/m3	2.7 J	4.2 J	0.72 UJ	0.72 UJ
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	16	1.8 U	7.8	14
o-Xylene	ug/m3	4.8	0.88 U	2.4	4.3

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	41	3.3	46	5.7
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	0.63	0.50	3.8	0.32
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	5.3 J	1.9 UJ	16 J	2.3 J
Carbon Disulfide	ug/m3	0.63 U	0.63 U	5.9	0.63 U
Carbon Tetrachloride	ug/m3	0.52	0.32 U	0.51	0.32 U
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	1.5	0.34	1.2	0.12 U
Chloromethane	ug/m3	1.4	0.42 U	1.5	0.42 U
Cyclohexane	ug/m3	0.70 U	0.70 U	2.1	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.7	1.0 U	2.6	2.9
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	1.2	0.10 U	0.55	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 UJ	0.46 UJ	0.46 UJ	0.46 UJ
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	3.6	1.1 U	5.6	1.1 U
Ethyl Benzene	ug/m3	0.88 U	2.1	2.1	0.93
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	0.83 U	0.83 U	3.0	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	0.71 U	0.71 U	7.3	0.71 U
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	2.0	0.70 U	9.6	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
2-Propanol	ug/m3	63 J	0.50 UJ	9.6 J	0.56 J
Propene	ug/m3	1.2	0.35 U	6.3	0.59
Styrene	ug/m3	0.86 UJ	0.86 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	1.2	0.80	0.34 U	0.34 U
Tetrahydrofuran	ug/m3	1.3 J	0.60 UJ	3.3 J	0.60 UJ
Toluene	ug/m3	6.5 J	8.2 J	17 J	3.1 J
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.6	1.4	1.4	1.4
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	0.99 UJ	5.4 J	3.0 J	3.7 J
1,3,5-Trimethylbenzene	ug/m3	0.99 UJ	0.99 UJ	0.99 UJ	0.99 UJ
2,2,4-Trimethylpentane	ug/m3	1.1	1.0 U	1.7	1.0 U
Vinyl Acetate	ug/m3	4.3 J	1.4 J	6.0 J	0.91 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	1.8 U	11	8.0	5.5
o-Xylene	ug/m3	0.88 U	3.1	2.8	1.6

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	36	21	20	3.3
Allyl Chloride	ug/m3	0.32 U	2.4 U	0.32 U	0.32 U
Benzene	ug/m3	1.2	1.7	0.57	0.26
Benzyl Chloride	ug/m3	4.2 UJ	31 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	10 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	16 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	5.8 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	3.4 U	0.45 U	0.45 U
2-Butanone	ug/m3	2.8 J	14 UJ	2.1 J	1.9 UJ
Carbon Disulfide	ug/m3	0.63 U	4.7 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.53	2.4 U	0.55	0.55
Chlorobenzene	ug/m3	0.93 U	6.9 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	4.0 U	0.53 U	0.53 U
Chloroform	ug/m3	1.8	0.90 U	0.17	0.12 U
Chloromethane	ug/m3	1.5	3.1 U	1.3	1.4
Cyclohexane	ug/m3	0.85	5.2 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	13 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 UJ	12 UJ	1.6 UJ	1.6 UJ
1,2-Dichlorobenzene	ug/m3	1.2 U	9.0 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	9.0 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	9.0 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.8	7.5 U	2.6	2.9
1,1-Dichloroethane	ug/m3	0.82 U	6.1 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.15	0.75 U	0.89	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	1.5 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	1.5 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	1.5 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	6.9 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 UJ	3.4 UJ	0.46 UJ	0.46 UJ
trans-1,3-Dichloropropene	ug/m3	0.46 U	3.4 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	10 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 UJ	5.4 UJ	0.73 UJ	0.73 UJ
Ethyl Acetate	ug/m3	41	8.2 U	6.6	1.1 U
Ethyl Benzene	ug/m3	2.2	6.6 U	0.88 U	0.88 U
4-Ethyltoluene	ug/m3	4.0 UJ	30 UJ	4.0 UJ	4.0 UJ
Heptane	ug/m3	2.3	6.2 U	0.83 U	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	16 U	2.2 U	2.2 U
Hexane	ug/m3	2.7	5.3 U	0.71 U	0.71 U
2-Hexanone	ug/m3	1.7 UJ	13 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	5.4 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.94	5.2 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 UJ	13 UJ	1.7 UJ	1.7 UJ
2-Propanol	ug/m3	8.8 J	3.7 UJ	5.8 J	0.50 UJ
Propene	ug/m3	4.9	2.9	1.7	0.35 U
Styrene	ug/m3	0.86 UJ	6.4 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	10 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.54	2.5 U	0.34 U	0.34 U
Tetrahydrofuran	ug/m3	0.60 UJ	4.5 UJ	0.60 UJ	0.60 UJ
Toluene	ug/m3	11 J	16 J	0.76 UJ	0.76 UJ
1,2,4-Trichlorobenzene	ug/m3	1.5 U	11 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	8.2 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 UJ	8.2 UJ	1.1 UJ	1.1 UJ
Trichloroethene	ug/m3	0.27 U	2.0 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.6	8.2 U	1.6	1.5
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	11 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	3.0 J	7.4 UJ	0.99 UJ	0.99 UJ
1,3,5-Trimethylbenzene	ug/m3	0.99 UJ	7.4 UJ	0.99 UJ	0.99 UJ
2,2,4-Trimethylpentane	ug/m3	5.4	7.5 U	1.0 U	1.0 U
Vinyl Acetate	ug/m3	7.6 J	5.4 UJ	2.0 J	0.72 UJ
Vinyl Bromide	ug/m3	0.88 U	6.6 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.97 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	9.3	13 U	1.8 U	1.8 U
o-Xylene	ug/m3	3.5	6.6 U	0.88 U	0.88 U

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	9.8	21	0.96 U	
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	
Benzene	ug/m3	0.38	0.87	0.16 U	
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	
2-Butanone	ug/m3	2.9 J	2.4 J	1.9 UJ	
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	
Carbon Tetrachloride	ug/m3	0.52	0.55	0.32 U	
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	
Chloroform	ug/m3	0.35	1.4	0.12 U	
Chloromethane	ug/m3	0.48	1.4	0.42 U	
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	
1,2-Dibromoethane	ug/m3	1.6 UJ	1.6 UJ	1.6 UJ	
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	
Dichlorodifluoromethane	ug/m3	2.8	2.9	1.0 U	
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	
1,2-Dichloroethane	ug/m3	0.10 U	0.22	0.10 U	
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	
cis-1,3-Dichloropropene	ug/m3	0.46 UJ	0.46 UJ	0.46 UJ	
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	
1,4-Dioxane	ug/m3	0.73 UJ	0.73 UJ	0.73 UJ	
Ethyl Acetate	ug/m3	1.1 U	14	1.1 U	
Ethyl Benzene	ug/m3	1.6	0.88 U	0.88 U	
4-Ethyltoluene	ug/m3	4.0 UJ	4.0 UJ	4.0 UJ	
Heptane	ug/m3	0.83 U	0.83 U	0.83 U	
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	
Hexane	ug/m3	0.71 U	0.71 U	0.71 U	
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	
4-Methyl-2-Pentanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	
2-Propanol	ug/m3	0.50 UJ	7.4 J	0.50 UJ	
Propene	ug/m3	1.3	1.7	0.35 U	
Styrene	ug/m3	0.86 UJ	0.86 UJ	0.86 UJ	

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	
Tetrachloroethene	ug/m3	0.34 U	0.34 U	0.34 U	
Tetrahydrofuran	ug/m3	0.60 UJ	0.60 UJ	0.60 UJ	
Toluene	ug/m3	5.0 J	1.9 J	0.76 UJ	
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	
1,1,2-Trichloroethane	ug/m3	1.1 UJ	1.1 UJ	1.1 UJ	
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	
Trichlorofluoromethane	ug/m3	1.5	1.6	1.1 U	
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	
1,2,4-Trimethylbenzene	ug/m3	7.0 J	0.99 UJ	0.99 UJ	
1,3,5-Trimethylbenzene	ug/m3	1.1 J	0.99 UJ	0.99 UJ	
2,2,4-Trimethylpentane	ug/m3	1.0 U	1.0 U	1.0 U	
Vinyl Acetate	ug/m3	3.0 J	2.0 J	0.72 UJ	
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	
m and/or p-Xylene	ug/m3	9.3	1.8 U	1.8 U	
o-Xylene	ug/m3	2.8	0.88 U	0.88 U	
1 Acid Herbicides in Water by LCMSMS					
2,4,5-T	ug/L				0.050 U
2,4,5-TP	ug/L				0.050 U
2,4-D	ug/L				0.050 U
Dicamba	ug/L				0.050 U
Dichlorprop	ug/L				0.050 U
Pentachlorophenol	ug/L				0.050 U
Triclopyr	ug/L				0.050 U
1 Mercury - Dissolved, in Water					
Mercury	ug/L				0.250 U
1 Mercury in Water					
Mercury	ug/L				0.250 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L				2.0 U
Arsenic	ug/L				4.1
Barium	ug/L				505
Beryllium	ug/L				1.0 U
Cadmium	ug/L				1.0 U
Chromium	ug/L				2.3
Cobalt	ug/L				1.0 U
Copper	ug/L				2.0 U
Lead	ug/L				1.0 U
Manganese	ug/L				103
Nickel	ug/L				4.2
Selenium	ug/L				5.0 U
Silver	ug/L				1.0 U
Thallium	ug/L				1.0 U

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
Vanadium	ug/L				1.0 U
Zinc	ug/L				3.9
1 Metals in Water by ICP/MS					
Antimony	ug/L				2.0 U
Arsenic	ug/L				4.0
Barium	ug/L				553
Beryllium	ug/L				1.0 U
Cadmium	ug/L				1.0 U
Chromium	ug/L				2.0 U
Cobalt	ug/L				1.0 U
Copper	ug/L				5.4
Lead	ug/L				1.0 U
Manganese	ug/L				99.0
Nickel	ug/L				3.6
Selenium	ug/L				5.0 U
Silver	ug/L				1.0 U
Thallium	ug/L				1.0 U
Vanadium	ug/L				1.0 U
Zinc	ug/L				10.1
1 Pesticides and PCBs in Water by Twister GC/MS					
Aldrin	ug/L				0.020 U
Aroclor 1221	ug/L				0.25 U
Aroclor 1232	ug/L				0.25 U
Aroclor 1242	ug/L				0.25 U
Aroclor 1248	ug/L				0.25 U
Aroclor 1254	ug/L				0.25 U
Aroclor 1260	ug/L				0.25 U
A-BHC	ug/L				0.020 U
B-BHC	ug/L				0.050 U
D-BHC	ug/L				0.050 U
G-BHC	ug/L				0.020 U
cis-Chlordane	ug/L				0.020 U
Chlordane, technical	ug/L				0.20 U
trans-Chlordane	ug/L				0.020 U
p,p'-DDD	ug/L				0.020 U
p,p'-DDE	ug/L				0.020 U
p,p'-DDT	ug/L				0.020 U
Dieldrin	ug/L				0.020 U
Endosulfan I	ug/L				0.020 U
Endosulfan II	ug/L				0.020 U
Endosulfan Sulfate	ug/L				0.020 U
Endrin	ug/L				0.020 U
Endrin Aldehyde	ug/L				0.50 UJ
Endrin Ketone	ug/L				0.020 U
Heptachlor	ug/L				0.020 U

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
Heptachlor Epoxide	ug/L				0.020 U
p,p'-Methoxychlor	ug/L				0.020 U
Toxaphene	ug/L				1.0 U
1 Pesticides in Water by GC/EC					
Aroclor 1016	ug/L				N/A O
Aroclor 1221	ug/L				N/A O
Aroclor 1232	ug/L				N/A O
Aroclor 1242	ug/L				N/A O
Aroclor 1248	ug/L				N/A O
Aroclor 1254	ug/L				N/A O
Aroclor 1260	ug/L				N/A O
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L				2.0 U
Acenaphthylene	ug/L				2.0 U
Anthracene	ug/L				2.0 U
Benzo(a)anthracene	ug/L				2.0 U
Benzo(a)pyrene	ug/L				2.0 U
Benzo(b)fluoranthene	ug/L				2.0 U
Benzo(g,h,i)perylene	ug/L				2.0 UJ
Benzo(k)fluoranthene	ug/L				2.0 U
Benzoic acid	ug/L				10 U
Benzyl alcohol	ug/L				5.0 U
bis(2-Chloroethoxy)methane	ug/L				2.0 U
bis(2-Chloroethyl)ether	ug/L				2.0 U
bis(2-Chloroisopropyl)ether	ug/L				2.0 U
bis(2-Ethylhexyl)phthalate	ug/L				5.0 U
4-Bromophenyl-phenylether	ug/L				2.0 U
Butylbenzylphthalate	ug/L				5.0 U
Carbazole	ug/L				5.0 U
4-Chloro-3-methylphenol	ug/L				5.0 U
4-Chloroaniline	ug/L				10 U
2-Chloronaphthalene	ug/L				2.0 U
2-Chlorophenol	ug/L				5.0 U
4-Chlorophenyl-phenylether	ug/L				2.0 U
Chrysene	ug/L				2.0 U
Di-n-butylphthalate	ug/L				5.0 U
Di-n-octylphthalate	ug/L				5.0 U
Dibenz(a,h)anthracene	ug/L				2.0 U
Dibenzofuran	ug/L				2.0 U
1,2-Dichlorobenzene	ug/L				2.0 U
1,3-Dichlorobenzene	ug/L				2.0 U
1,4-Dichlorobenzene	ug/L				2.0 U
3,3'-Dichlorobenzidine	ug/L				10 UJ
2,4-Dichlorophenol	ug/L				5.0 U
Diethylphthalate	ug/L				2.0 U

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
2,4-Dimethylphenol	ug/L				2.0 U
Dimethylphthalate	ug/L				2.0 U
4,6-Dinitro-2-methylphenol	ug/L				10 U
2,4-Dinitrophenol	ug/L				10 U
2,4-Dinitrotoluene	ug/L				2.0 U
2,6-Dinitrotoluene	ug/L				2.0 U
Fluoranthene	ug/L				2.0 U
Fluorene	ug/L				2.0 U
Hexachlorobenzene	ug/L				2.0 U
Hexachlorobutadiene	ug/L				2.0 U
Hexachlorocyclopentadiene	ug/L				2.0 U
Hexachloroethane	ug/L				2.0 U
Indeno(1,2,3-cd)pyrene	ug/L				2.0 UJ
Isophorone	ug/L				2.0 U
2-Methylnaphthalene	ug/L				2.0 U
2-Methylphenol	ug/L				5.0 U
4-Methylphenol	ug/L				5.0 U
Naphthalene	ug/L				2.0 U
2-Nitroaniline	ug/L				5.0 U
3-Nitroaniline	ug/L				5.0 U
4-Nitroaniline	ug/L				10 U
Nitrobenzene	ug/L				2.0 U
2-Nitrophenol	ug/L				5.0 U
4-Nitrophenol	ug/L				10 U
N-nitroso-di-n-propylamine	ug/L				5.0 U
N-nitrosodiphenylamine	ug/L				2.0 U
Pentachlorophenol	ug/L				5.0 U
Phenanthrene	ug/L				2.0 U
Phenol	ug/L				2.0 U
Pyrene	ug/L				2.0 U
1,2,4-Trichlorobenzene	ug/L				2.0 U
2,4,5-Trichlorophenol	ug/L				5.0 U
2,4,6-Trichlorophenol	ug/L				5.0 U
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L				0.5 U
TPH ORO	mg/L				2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L				5.0 U
Benzene	ug/L				1.0 U
Bromodichloromethane	ug/L				1.0 U
Bromoform	ug/L				1.0 U
Bromomethane	ug/L				1.0 U
2-Butanone	ug/L				5.0 U
Carbon Disulfide	ug/L				1.0 U
Carbon Tetrachloride	ug/L				1.0 U

Analysis/ Analyte	Units	25-__	26-__	27-FB	101-__
Chlorobenzene	ug/L				1.0 U
Chloroethane	ug/L				1.0 U
Chloroform	ug/L				1.0 U
Chloromethane	ug/L				1.0 U
Cyclohexane	ug/L				1.0 U
1,2-Dibromo-3-Chloropropane	ug/L				5.0 U
Dibromochloromethane	ug/L				1.0 U
1,2-Dibromoethane	ug/L				1.0 U
1,2-Dichlorobenzene	ug/L				1.0 U
1,3-Dichlorobenzene	ug/L				1.0 U
1,4-Dichlorobenzene	ug/L				1.0 U
Dichlorodifluoromethane	ug/L				1.0 U
1,1-Dichloroethane	ug/L				1.0 U
1,2-Dichloroethane	ug/L				1.0 U
1,1-Dichloroethene	ug/L				1.0 U
cis-1,2-Dichloroethene	ug/L				1.0 U
trans-1,2-Dichloroethene	ug/L				1.0 U
1,2-Dichloropropane	ug/L				1.0 U
cis-1,3-Dichloropropene	ug/L				1.0 U
trans-1,3-Dichloropropene	ug/L				1.0 U
Ethyl Benzene	ug/L				1.0 U
2-Hexanone	ug/L				5.0 U
Isopropylbenzene	ug/L				1.0 U
Methyl Acetate	ug/L				5.0 U
Methyl tert-butyl ether	ug/L				1.0 U
Methylcyclohexane	ug/L				1.0 U
Methylene Chloride	ug/L				1.0 U
4-Methyl-2-Pentanone	ug/L				5.0 U
Naphthalene	ug/L				2.0 U
Styrene	ug/L				1.0 U
1,1,2,2-Tetrachloroethane	ug/L				1.0 U
Tetrachloroethene	ug/L				1.0 U
Toluene	ug/L				1.0 U
1,2,3-Trichlorobenzene	ug/L				1.0 U
1,2,4-Trichlorobenzene	ug/L				1.0 U
1,1,1-Trichloroethane	ug/L				1.0 U
1,1,2-Trichloroethane	ug/L				1.0 U
Trichloroethene	ug/L				1.0 U
Trichlorofluoromethane	ug/L				1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L				1.0 U
Vinyl Chloride	ug/L				1.0 U
m and/or p-Xylene	ug/L				2.0 U
o-Xylene	ug/L				1.0 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L				0.04 U

Analysis/ Analyte	Units	101-FD	102-__	103-__	104-__
1 Acid Herbicides in Water by LCMSMS					
2,4,5-T	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
2,4,5-TP	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
2,4-D	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Dicamba	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Dichlorprop	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Pentachlorophenol	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
Triclopyr	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
1 Mercury - Dissolved, in Water					
Mercury	ug/L	0.250 U	0.250 U	0.250 U	0.250 U
1 Mercury in Water					
Mercury	ug/L	0.250 U	0.250 U	0.250 U	0.250 U
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	4.6	1.0 U	1.0 U	1.0 U
Barium	ug/L	518	355	429	200
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.6	3.2	2.5	3.1
Cobalt	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Copper	ug/L	2.0 U	4.1	2.0 U	40.0
Lead	ug/L	1.0 U	1.0 U	1.0 U	2.5
Manganese	ug/L	103	83.5	25.0	6.2
Nickel	ug/L	4.3	3.6	4.1	4.7
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	3.0	5.5	5.9	29.4
1 Metals in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	4.1	1.0 U	1.0 U	1.0 U
Barium	ug/L	667	363	371	214
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Cobalt	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Copper	ug/L	6.0	22.3	10.6	69.9
Lead	ug/L	1.0 U	1.0 U	1.0 U	4.7
Manganese	ug/L	101	76.6	24.0	7.5
Nickel	ug/L	3.8	2.9	3.6	4.1
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	9.4	6.1	6.0	57.7

Analysis/ Analyte	Units	101-FD	102-__	103-__	104-__
1 Pesticides and PCBs in Water by Twister GC/MS					
Aldrin	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Aroclor 1221	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor 1232	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor 1242	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor 1248	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor 1254	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
Aroclor 1260	ug/L	0.25 U	0.25 U	0.25 U	0.25 U
A-BHC	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
B-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
D-BHC	ug/L	0.050 U	0.050 U	0.050 U	0.050 U
G-BHC	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
cis-Chlordane	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Chlordane, technical	ug/L	0.20 U	0.20 U	0.20 U	0.20 U
trans-Chlordane	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDD	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDE	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-DDT	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Dieldrin	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan I	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan II	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Endosulfan Sulfate	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Endrin	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Endrin Aldehyde	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Endrin Ketone	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Heptachlor	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Heptachlor Epoxide	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
p,p'-Methoxychlor	ug/L	0.020 U	0.020 U	0.020 U	0.020 U
Toxaphene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1 Pesticides in Water by GC/EC					
Aroclor 1016	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1221	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1232	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1242	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1248	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1254	ug/L	N/A O	N/A O	N/A O	N/A O
Aroclor 1260	ug/L	N/A O	N/A O	N/A O	N/A O
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Acenaphthylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Anthracene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)anthracene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)pyrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(b)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(g,h,i)perylene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Benzo(k)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U

Analysis/ Analyte	Units	101-FD	102-__	103-__	104-__
Benzoic acid	ug/L	10 U	10 U	10 U	10 U
Benzyl alcohol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Chloroethyl)ether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Chloroisopropyl)ether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Butylbenzylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U
2-Chloronaphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Chrysene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Di-n-butylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Dibenzofuran	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
3,3'-Dichlorobenzidine	ug/L	10 UJ	10 UJ	10 UJ	10 UJ
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Dimethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Fluorene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorobutadiene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Indeno(1,2,3-cd)pyrene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Isophorone	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U

Analysis/ Analyte	Units	101-FD	102-__	103-__	104-__
4-Nitroaniline	ug/L	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitrophenol	ug/L	10 U	10 U	10 U	10 U
N-nitroso-di-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-nitrosodiphenylamine	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Phenol	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Pyrene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L	0.5 U	0.5 U	0.5 U	0.5 U
TPH ORO	mg/L	2 U	2 U	2 U	2 U
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	101-FD	102-__	103-__	104-__
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 UJ	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L	0.04 U	0.04 U	0.04 U	0.04 U

Analysis/ Analyte	Units	105-__	106-__	113-FB	114-FB
1 Acid Herbicides in Water by LCMSMS					
2,4,5-T	ug/L	0.050 U	0.050 U	0.050 U	
2,4,5-TP	ug/L	0.050 U	0.050 U	0.050 U	
2,4-D	ug/L	0.050 U	0.050 U	0.050 U	
Dicamba	ug/L	0.050 U	0.050 U	0.050 U	
Dichlorprop	ug/L	0.050 U	0.050 U	0.050 U	
Pentachlorophenol	ug/L	0.050 U	0.050 U	0.050 U	
Triclopyr	ug/L	0.050 U	0.050 U	0.050 U	
1 Mercury - Dissolved, in Water					
Mercury	ug/L	0.250 U	0.250 U		
1 Mercury in Water					
Mercury	ug/L	0.250 U	0.250 U	0.250 U	
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U		
Arsenic	ug/L	1.0 U	3.5		
Barium	ug/L	296	339		
Beryllium	ug/L	1.0 U	1.0 U		
Cadmium	ug/L	1.0 U	1.0 U		
Chromium	ug/L	3.1	2.0 U		
Cobalt	ug/L	1.0 U	1.0 U		
Copper	ug/L	5.3	2.0 U		
Lead	ug/L	3.3	1.0 U		
Manganese	ug/L	21.3	144		
Nickel	ug/L	5.0	4.5		
Selenium	ug/L	5.0 U	5.0 U		
Silver	ug/L	1.0 U	1.0 U		
Thallium	ug/L	1.0 U	1.0 U		
Vanadium	ug/L	1.0 U	1.0 U		
Zinc	ug/L	11.8	13.3		
1 Metals in Water by ICP/MS					
Antimony	ug/L	2.0 U	2.0 U	2.0 U	
Arsenic	ug/L	1.0 U	3.3	1.0 U	
Barium	ug/L	336	344	5.0 U	
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	
Chromium	ug/L	2.0 U	2.0 U	2.0 U	
Cobalt	ug/L	1.0 U	1.0 U	1.0 U	
Copper	ug/L	97.6	2.0 U	2.0 U	
Lead	ug/L	14.4	1.0 U	1.0 U	
Manganese	ug/L	431	140	1.0 U	
Nickel	ug/L	4.7	5.1	1.0 U	
Selenium	ug/L	5.0 U	5.0 U	5.0 U	
Silver	ug/L	1.0 U	1.0 U	1.0 U	
Thallium	ug/L	1.0 U	1.0 U	1.0 U	
Vanadium	ug/L	1.0 U	1.0 U	1.0 U	
Zinc	ug/L	37.7	39.9	5.2	

Analysis/ Analyte	Units	105-__	106-__	113-FB	114-FB
1 Pesticides and PCBs in Water by Twister GC/MS					
Aldrin	ug/L	0.020 U	0.020 U	0.020 U	
Aroclor 1221	ug/L	0.25 U	0.25 U	0.25 U	
Aroclor 1232	ug/L	0.25 U	0.25 U	0.25 U	
Aroclor 1242	ug/L	0.25 U	0.25 U	0.25 U	
Aroclor 1248	ug/L	0.25 U	0.25 U	0.25 U	
Aroclor 1254	ug/L	0.25 U	0.25 U	0.25 U	
Aroclor 1260	ug/L	0.25 U	0.25 U	0.25 U	
A-BHC	ug/L	0.020 U	0.020 U	0.020 U	
B-BHC	ug/L	0.050 U	0.050 U	0.050 U	
D-BHC	ug/L	0.050 U	0.050 U	0.050 U	
G-BHC	ug/L	0.020 U	0.020 U	0.020 U	
cis-Chlordane	ug/L	0.020 U	0.020 U	0.020 U	
Chlordane, technical	ug/L	0.20 U	0.20 U	0.20 U	
trans-Chlordane	ug/L	0.020 U	0.020 U	0.020 U	
p,p'-DDD	ug/L	0.020 U	0.020 U	0.020 U	
p,p'-DDE	ug/L	0.020 U	0.020 U	0.020 U	
p,p'-DDT	ug/L	0.020 U	0.020 U	0.020 U	
Dieldrin	ug/L	0.020 U	0.020 U	0.020 U	
Endosulfan I	ug/L	0.020 U	0.020 U	0.020 U	
Endosulfan II	ug/L	0.020 U	0.020 U	0.020 U	
Endosulfan Sulfate	ug/L	0.020 U	0.020 U	0.020 U	
Endrin	ug/L	0.020 U	0.020 U	0.020 U	
Endrin Aldehyde	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	
Endrin Ketone	ug/L	0.020 U	0.020 U	0.020 U	
Heptachlor	ug/L	0.020 U	0.020 U	0.020 U	
Heptachlor Epoxide	ug/L	0.020 U	0.020 U	0.020 U	
p,p'-Methoxychlor	ug/L	0.020 U	0.020 U	0.020 U	
Toxaphene	ug/L	1.0 U	1.0 U	1.0 U	
1 Pesticides in Water by GC/EC					
Aroclor 1016	ug/L	N/A O	N/A O	N/A O	
Aroclor 1221	ug/L	N/A O	N/A O	N/A O	
Aroclor 1232	ug/L	N/A O	N/A O	N/A O	
Aroclor 1242	ug/L	N/A O	N/A O	N/A O	
Aroclor 1248	ug/L	N/A O	N/A O	N/A O	
Aroclor 1254	ug/L	N/A O	N/A O	N/A O	
Aroclor 1260	ug/L	N/A O	N/A O	N/A O	
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L	2.0 U	2.0 U	2.0 U	
Acenaphthylene	ug/L	2.0 U	2.0 U	2.0 U	
Anthracene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(a)anthracene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(a)pyrene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(b)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	
Benzo(g,h,i)perylene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	
Benzo(k)fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	

Analysis/ Analyte	Units	105-__	106-__	113-FB	114-FB
Benzoic acid	ug/L	10 U	10 U	10 U	
Benzyl alcohol	ug/L	5.0 U	5.0 U	5.0 U	
bis(2-Chloroethoxy)methane	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Chloroethyl)ether	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Chloroisopropyl)ether	ug/L	2.0 U	2.0 U	2.0 U	
bis(2-Ethylhexyl)phthalate	ug/L	5.0 U	5.0 U	5.0 U	
4-Bromophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	
Butylbenzylphthalate	ug/L	5.0 U	5.0 U	5.0 U	
Carbazole	ug/L	5.0 U	5.0 U	5.0 U	
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	
4-Chloroaniline	ug/L	10 U	10 U	10 U	
2-Chloronaphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	
4-Chlorophenyl-phenylether	ug/L	2.0 U	2.0 U	2.0 U	
Chrysene	ug/L	2.0 U	2.0 U	2.0 U	
Di-n-butylphthalate	ug/L	5.0 U	5.0 U	5.0 U	
Di-n-octylphthalate	ug/L	5.0 U	5.0 U	5.0 U	
Dibenz(a,h)anthracene	ug/L	2.0 U	2.0 U	2.0 U	
Dibenzofuran	ug/L	2.0 U	2.0 U	2.0 U	
1,2-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
1,3-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
1,4-Dichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
3,3'-Dichlorobenzidine	ug/L	10 UJ	10 UJ	10 UJ	
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	
Diethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	2.0 U	
Dimethylphthalate	ug/L	2.0 U	2.0 U	2.0 U	
4,6-Dinitro-2-methylphenol	ug/L	10 U	10 U	10 U	
2,4-Dinitrophenol	ug/L	10 U	10 U	10 U	
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	
2,6-Dinitrotoluene	ug/L	2.0 U	2.0 U	2.0 U	
Fluoranthene	ug/L	2.0 U	2.0 U	2.0 U	
Fluorene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorobutadiene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachlorocyclopentadiene	ug/L	2.0 U	2.0 U	2.0 U	
Hexachloroethane	ug/L	2.0 U	2.0 U	2.0 U	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	
Isophorone	ug/L	2.0 U	2.0 U	2.0 U	
2-Methylnaphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	
4-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	

Analysis/ Analyte	Units	105-__	106-__	113-FB	114-FB
4-Nitroaniline	ug/L	10 U	10 U	10 U	
Nitrobenzene	ug/L	2.0 U	2.0 U	2.0 U	
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	
4-Nitrophenol	ug/L	10 U	10 U	10 U	
N-nitroso-di-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	
N-nitrosodiphenylamine	ug/L	2.0 U	2.0 U	2.0 U	
Pentachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	
Phenanthrene	ug/L	2.0 U	2.0 U	2.0 U	
Phenol	ug/L	2.0 U	2.0 U	2.0 U	
Pyrene	ug/L	2.0 U	2.0 U	2.0 U	
1,2,4-Trichlorobenzene	ug/L	2.0 U	2.0 U	2.0 U	
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L	0.5 U	0.5 U	0.5 U	
TPH ORO	mg/L	2 U	2 U	2 U	
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	105-__	106-__	113-FB	114-FB
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L	0.04 U	0.04 U	0.04 U	0.04 U

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	3 (MONTH) 19-22 (DAY) 2018 (YEAR)	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	SUMMA BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7782-1		1							X		
-2		1							X		
-3		1							X		
-4		1							X		
-5		1							X		
-6		1							X		
-7		1							X		
-8		1							X		
-9		1							X		
-10		1							X		
-11		1							X		
-12		1							X		
-13		1							X		
-14		1							X		
-15		1							X		
-16		1							X		
-17		1							X		
-18		1							X		
-19		1							X		
-20		1							X		
-21		1							X		
-22		1							X		
-23		1							X		
-24		1							X		

DESCRIPTION OF SHIPMENT

102 CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 9

3/23/18

MODE OF SHIPMENT

COMMERCIAL CARRIER

✓ SAMPLER CONVEYED

(SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
(b) (4) [redacted] SEALED ✓	3-23-18	10:48	Nicole Robb SEALED UNSEALED ✓	3/23/18	1048	Analy
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			

7 EPA 9262 (REV 4/17) WHITE ORIGINAL - EPA LAB - YELLOW - EPA PROJECT MANAGER

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
TODD DAVIS	TANGLEFOOT LANE SIRA	3 (MONTH) 17-22 (DAY) 2018 (YEAR)	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	SUMMA BOTTLE	80 OZ GLASS BOTTLE	1 VOA BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7782-25		1							X		
-26		1							X		
-27 FB		1							X		"FB" missing on tag, COC + Field Sheet. PM/sampler emailed on 3/26/18
-101	2		3	1	2	X					
-101-FD	2		3	1	2	X					
-102	2		9	1	6	X					MS/MSD
-103	2		3	1	2	X					
-104	2		3	1	2	X					
-105	2		3	1	2	X					
-106	2		3	1	2	X					
-113-FB	1		3	1	2	X					
-114-FB					2	X					
ASR COMPLETE											Clr. Temp Rec'd OK on 3/23/18

DESCRIPTION OF SHIPMENT

1 CONTAINER(S) CONSISTING OF 7 CRATE(S)

✓ ICE CHEST(S): OTHER 9

MODE OF SHIPMENT

COMMERCIAL CARRIER

✓ SAMPLER CONVEYED

(SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] SEALED ✓	3-23-18	10:00	Nick Rolf SEALED ✓ UNSEALED	3/23/18	10:40	Analysis
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			

7-EPA-9262 (REV 4/17) WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-1-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/19/18	15:15
Longitude: ___ ___ ___	**End:**	3/20/18	14:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3243
REGULATOR NO.: A0298789-7

PRESSURE: START: -29.5
(psi) STOP: -5

NOTE: SUB-SLAB PORT LOCATED IN STORAGE ROOM IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-2-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	3/19/18	15:20
	End:	3/20/18	14:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4559
REGULATOR NO.: A0298794-10
PRESSURE (psi): START: -29.5
STOP: 0

NOTE: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-3-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/19/18	15:50
Longitude: ___ ___ ___	**End:**	3/20/18	15:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3247

REGULATOR NO.: A0298796-10

PRESSURE (psi): START: -29.5

STOP: -5

NOTE: INDOOR AIR SAMPLE COLLECTED IN NW BASEMENT SITTING ROOM.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 4 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-4-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	9/20/18	08:26
End:	9/21/18	08:02

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3250
REGULATOR NO.: A0271055-3
PRESSURE (psi): START: -30
STOP: -0

NOTE: INDOOR AIR SAMPLE COLLECTED IN WESTERN PORTION OF BASEMENT OF BELOW RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 5 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-5-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SUB-SLAB SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	08:18
Longitude: ___ ___ ___	**End:**	3/21/18	08:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4565
REGULATOR NO.: A0282486-5
PRESSURE (psi): START: -29.5
STOP: -0

NOTE: SUB-SLAB PORT LOCATED IN STORAGE ROOM IN WESTERN PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 6 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-6-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 08:32
Longitude: ___ ___ ___ **End:** 3/21/18 08:04

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3014

REGULATOR NO.: A0289196-1

PRESSURE (psi): START: -30
STOP: -4

NOTE: AMBIENT AIR SAMPLE COLLECTED ON WESTERN SIDE OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 7 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-7-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	08:39
Longitude: ___ ___ ___	**End:**	3/21/18	07:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4560

REGULATOR NO.: A0299486-4

PRESSURE (psi): START: -29

STOP: -4

NOTE: INDOOR AIR SAMPLE COLLECTED IN STORAGE CLOSET IN WESTERN PORTION OF EVENT PAVILLION.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 8 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-8-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(SOIL GAS)~~ (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	09:24
Longitude: ___ ___ ___	**End:**	3/21/18	08:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4562

REGULATOR NO.: A0334482-9

PRESSURE (psi): START: -29

STOP: -4

NOTES: AMBIENT AIR SAMPLE COLLECTED ON BACK DECK OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 9 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-9-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(INDOOR AIR)~~ (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 9/20/18 09:20
Longitude: ___ ___ ___ **End:** 9/21/18 08:37

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3000

REGULATOR NO.: A027106Z-10

PRESSURE (psi): START: -27

STOP: -3

NOTES: SOIL GAS PORT LOCATED IN STORAGE CLOSET IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 10 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-10-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] ~~(AMBIENT AIR)~~ (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 09:22
Longitude: ___ ___ ___ **End:** 3/21/18 08:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2229

REGULATOR NO.: A0106061-5

PRESSURE (psi): START: -27
STOP: -3

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 11 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-11-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:17
Longitude: ___ ___ ___ **End:** 3/21/18 09:24

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3032

REGULATOR NO.: 7332107

PRESSURE (psi): START: -30

STOP: -0

NOTES: SOIL GAS PORT LOCATED NW CORNER OF BASEMENT IN STORAGE ROOM.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 12 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-12-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:19
Longitude: ___ ___ ___ **End:** 3/21/18 09:26

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: ~~12~~ L5203

REGULATOR NO.: A0299486-5

PRESSURE (psi): START: -30

STOP: -5

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF RESIDENCE

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 13 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-13-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:46
Longitude: ___ ___ ___ **End:** 3/21/18 09:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5197

REGULATOR NO.: A0271059-2

PRESSURE (psi): START: -29.5

STOP: -5

NOTES: SUB-SLAB PORT IN QUILTING ROOM IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 14 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-14-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 10:47
Longitude: ___ ___ ___ **End:** 3/21/18 09:46

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5113

REGULATOR NO.: A0271058-0

PRESSURE (psi): START: -30

STOP: -5

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVING ROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 15 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-15-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	12:13
Longitude: ___ ___ ___	**End:**	3/21/18	11:32

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2220

REGULATOR NO.: A0283642-6

PRESSURE (psi): START: -30

STOP: -2

NOTES: INDOOR AIR SAMPLE COLLECTED IN RECREACTIONAL ROOM IN BASEMENT. OWNER NOTIFIED START/EPA OF RADON SYSTEM CURRENTLY OPERATING IN HOME AFTER TEST BEGAN.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 16 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-16-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	12:48
Longitude: ___ ___ ___	**End:**	3/21/18	11:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3025

REGULATOR NO.: A0283641-10

PRESSURE (psi): START: -30

STOP: -7

NOTES: SUB-SLAB PORT LOCATED IN UNFINISHED STORAGE ROOM IN BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 17 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-17-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	12:60
Longitude: ___ ___ ___	**End:**	3/21/18	11:57

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5187

REGULATOR NO.: 7273195

PRESSURE (psi): START: -28.5

STOP: -4

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF RESIDENCE.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 18 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-18-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/20/18 17:18
Longitude: ___ ___ ___ **End:** 3/21/18 16:49

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: L5200

REGULATOR NO.: A0334 ~~874-5~~ 394-3

PRESSURE (psi): START: -29.5

STOP: -4

NOTES: SUB-SLAB PORT IS IN STORAGE ROOM IN WESTERN PORTION OF BASEMENT

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 19 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-19-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/20/18	17:20
Longitude: ___ ___ ___	**End:**	3/21/18	16:53

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4551
REGULATOR NO.: 126465
PRESSURE (psi): START: -30
STOP: -7

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVING ROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 20 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-20-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SUB-SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 14:17
Longitude: ___ ___ ___ **End:** 3/22/18 13:47

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: R2219.

REGULATOR NO.: A0298792-7

PRESSURE (psi): START: -30

STOP: -7.5

NOTE: SUB-SLAB PORT LOCATED IN NORTHEAST CORNER OF BASEMENT IN A STORAGE AREA.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 21 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-21-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 14:20

Longitude: ___ ___ ___ **End:** 3/22/18 13:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4556

REGULATOR NO.: A0283640-10

PRESSURE (psi): START: -30
STOP: -5

NOTE: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR OF HOME.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 22 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-22-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SUB-SLAB SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/21/18	14:58
Longitude: ___ ___ ___	**End:**	3/22/18	14:01

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3002

REGULATOR NO.: A0334866-5

PRESSURE (psi): START: -29.5

STOP: -24

NOTES: SUB-SLAB PORT LOCATED IN STORAGE CLOSET IN WESTERN PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 23 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-23-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 15:01
Longitude: ___ ___ ___ **End:** 3/22/18 14:04

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4568

REGULATOR NO.: A0334874-10

PRESSURE (pt:): START: -30

STOP: -3

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 24 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-24-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (AMBIENT AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 15:05
Longitude: ___ ___ ___ **End:** 3/22/18 14:06

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER No.: 3235

REGULATOR No.: A0283640-9

PRESSURE (psi): START: -30

STOP: -5

NOTES: AMBIENT AIR SAMPLE COLLECTED JUST WEST OF HOUSE.

PROPERTY OWNERS: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 25 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-25-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (SOIL GAS)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/21/18	20 08:47
Longitude: ___ ___ ___	**End:**	3/22/18	19:53

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 4557

REGULATOR NO.: 7262306

PRESSURE (psi): START: -29

STOP: 0

NOTES: SUB-SLAB PORT LOCATED IN UNFINISHED PORTION OF BASEMENT.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 26 **QC Code:** __ **Matrix:** Air **Tag ID:** 7782-26-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (INDOOR AIR)

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/21/18	20 ~~08~~:52
Longitude: ___ ___ ___	**End:**	3/22/18	19:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER NO.: 3017

REGULATOR NO.: A0289193-8

PRESSURE (psi): START: -30

STOP: -1

NOTES: INDOOR AIR SAMPLE COLLECTED IN LIVINGROOM ON MAIN FLOOR.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 27 **QC Code:** FB ~ 3/23/18 **Matrix:** Air **Tag ID:** 7782-27-FB

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: TRIP BLANK

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 22:00

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) TRIP BLANK SAMPLE

CANISTER NO.: RO499

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 101 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-101-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 10:15

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

NOTES: COLLECTED FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT OF WATER. WELL APPROX 100' - 120' DEEP. DRINKING WATER WELL.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** ~~112~~ 101 **QC Code:** FD 3/23/18 **Matrix:** Water **Tag ID:** 7782-[redacted] 101-FD

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/21/18 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) FIELD DUPLICATE SAMPLE

NOTES: COLLECTED FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT OF WATER. WELL APPROX 100'-120' DEEP. DRINKING WATER WELL.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 102 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-102-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 10:15
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
9 ~~3~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
9 ~~3~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
3 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments: MS/MSD COLLECTED

(N/A)

NOTES: SAMPLE COLLECTED FROM SPICKET NEAR GARAGE. NO TREATMENT OF WATER FROM THIS SPICKET. THIS WELL PROVIDES DRINKING WATER FOR 3 HOMES IN AREA. OWNERS ARE MOVING SOON BUT WILL HAVE MAIL FORWARDED.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 103 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-103-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 12:40

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments: DRINKING WATER WELL.

(N/A) NOTES: COLLECTED SAMPLE FROM RENTAL PROPERTY NEXT DOOR AT KITCHEN SINK. WHERE OWNER SAID WATER WAS NOT TREATED. WELL SERVICES MULTIPLE RESIDENCES.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 104 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-104-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 14:20
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:
(N/A)

NOTES: DRINKING WATER WELL. COLLECTED SAMPLE FROM SPICKET ON BACK SIDE OF HOUSE. NO TREATMENT ON WATER.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 105 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-105-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 14:53
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

DRINKING WATER WELL.
NOTE: COLLECTED SAMPLE FROM SAMPLING SPICKET IN MECHANICAL ROOM IN BASEMENT. NO WATER TREATMENT AT SPICKET.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 106 **QC Code:** __ **Matrix:** Water **Tag ID:** 7782-106-__

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 3/22/18 16:40

Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

NOTES: SAMPLE COLLECTED FROM PIPE THAT DISCHARGES INTO A POND IN FRONT YARD. OWNERS DO NOT USE FOR DRINKING WATER.

PROPERTY OWNER: (b) (6) [redacted]

Sample Collected By:

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 113 **QC Code:** FB **Matrix:** Water **Tag ID:** 7782-113-FB

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Field Blank

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	3/22/18	17:30
Longitude: ___ ___ ___	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
1 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Pesticides in Water by GC/EC
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) FIELD BLANK SAMPLE.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7782 **Sample Number:** 114 **QC Code:** FB **Matrix:** Water **Tag ID:** 7782-114-FB

Project ID: THB7C700 **Project Manager:** Todd Davis
Project Desc: Tanglefoot Lane - Removal Assessment
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: LDL VOA/TPH VOA (GRO) Trip Blank sample

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	3/22/18	22:00
	End:	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 Volatile TPH in Water by GC/MS

Sample Comments:
Prepared by the LTAB. TRIP BLANK SAMPLE

Sample Collected By: TT

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 10/02/2018

Subject: Transmittal of Sample Analysis Results for ASR #: 7917

Project ID: MLB7C700

Project Description: Tanglefoot Lane

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch
Environmental Sciences & Technology Division

To: Melinda Luetke
SUPR/PPNS

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic (.pdf only) transmittal in your records management system. The Regional Laboratory will now retain all of the original hardcopy documentation (e.g. COC[s] and the R7LIMS field sheet[s], etc.) according to our ENST records management system.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey. It is critical that we receive your response in accordance to RCRA and the laboratory accreditation.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

Project Manager: Melinda Luetke **Org:** SUPR/PPNS **Phone:** 913-551-7961

Project ID: MLB7C700

Project Desc: Tanglefoot Lane

Location: Bettendorf **State:** Iowa **Program:** Superfund

Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Purpose: Site Characterization **GPRA PRC:** 000DC6

Site Investigation (SI)/Removal Assessment (RA) sampling.

EPA PM (ML)/Sampler noted via emailed ASR dated 6/21/18 that this ASR is not part of a litigation hold activity at this time.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

= Field Sample
FB = Field Blank

Units: Specific units in which results are reported.

ug/m3 = Micrograms per Cubic Meter
ug/L = Micrograms per Liter
mg/L = Milligrams per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.
U = The analyte was not detected at or above the reporting limit.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
J = The identification of the analyte is acceptable; the reported value is an estimate.
O = Parameter not analyzed.

ASR Number: 7917 **Sample Information Summary** **10/02/2018**

Project ID: MLB7C700 **Project Desc:** Tanglefoot Lane

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -		Air	(b) (6) [redacted]		08/21/2018	09:45	08/22/2018	09:15	08/24/2018
2 -		Air			08/21/2018	09:42	08/22/2018	09:14	08/24/2018
3 -		Air			08/21/2018	10:08	08/22/2018	09:39	08/24/2018
4 -		Air			08/21/2018	10:06	08/22/2018	09:38	08/24/2018
5 -		Air			08/21/2018	10:36	08/22/2018	10:03	08/24/2018
6 -		Air			08/21/2018	10:44	08/22/2018	10:11	08/24/2018
7 -		Air			08/21/2018	10:45	08/22/2018	10:10	08/24/2018
8 -		Air			08/21/2018	10:48	08/22/2018	10:09	08/24/2018
9 -		Air			08/21/2018	11:42	08/22/2018	11:15	08/24/2018
10 -		Air			08/21/2018	11:45	08/22/2018	11:15	08/24/2018
11 -		Air			08/21/2018	13:01	08/22/2018	12:33	08/24/2018
12 -		Air			08/21/2018	12:59	08/22/2018	12:32	08/24/2018
13 -		Air			08/21/2018	16:14	08/22/2018	16:09	08/24/2018
14 -		Air			08/21/2018	16:13	08/22/2018	16:08	08/24/2018
15 -		Air			08/21/2018	16:39	08/22/2018	16:22	08/24/2018
16 -		Air			08/21/2018	16:30	08/22/2018	16:21	08/24/2018
17 -		Air			08/22/2018	08:19	08/23/2018	08:02	08/24/2018
18 -		Air			08/22/2018	08:18	08/23/2018	08:01	08/24/2018
19 -		Air			08/22/2018	08:20	08/23/2018	08:03	08/24/2018
20 -		Air			08/22/2018	08:54	08/23/2018	08:21	08/24/2018
21 -		Air			08/22/2018	10:29	08/23/2018	10:00	08/24/2018
22 -		Air			08/22/2018	11:00	08/23/2018	10:35	08/24/2018
23 -		Air			08/22/2018	10:59	08/23/2018	10:35	08/24/2018
24 -		Air			08/22/2018	11:04	08/23/2018	10:38	08/24/2018
25 -		Air			08/22/2018	12:57	08/23/2018	12:12	08/24/2018
26 -		Air			08/22/2018	12:56	08/23/2018	12:11	08/24/2018
27 -		Air			08/22/2018	15:10	08/23/2018	14:50	08/24/2018
28 -		Air			08/22/2018	15:10	08/23/2018	14:50	08/24/2018
29 -	FB	Air			08/23/2018	15:00			08/24/2018
101 -		Water			08/23/2018	11:10			08/24/2018
102 -	FB	Water	Field Blank sample		08/23/2018	12:30			08/24/2018
104 -	FB	Water	Water LDL VOA Trip Blank		08/23/2018	12:45			08/24/2018

Analysis	**Comments About Results For This Analysis**

1 VOCs in Air S[redacted]t Levels by GC/MS

Lab: R[redacted]as City, Ks.

Metho[redacted]3230.4H

Sampl[redacted]

4-	5-	6-	7-
11-	12-	13-	14-
18-	19-	20-	21-
25-	26-	27-	28-

Comm[redacted]

The sa[redacted]was received empty (the canister was still under full vacuum[redacted]performed. Results of 'N/A' were reported with an O-code.

Benzyl [redacted]ples 1, 3-28 and 29-FB. This analyte was not found in the sar[redacted] limit, however, the reporting limit is an estimate (UJ-coded) [redacted]calibration curve not meeting linearity specifications. The act[redacted]her than the reported value.

Vinyl A[redacted]es 9, 10, 17-19, 23, 24, 26, 27, 28, and 29-FB. This analyte[redacted]ples at or above the reporting limit, however, the reportir[redacted]ed) due to low recovery of this analyte in the second source [redacted]eporting limit for this analyte may be higher than the reporte[redacted]

Vinyl A[redacted]es 1, 3-8, 11-16, 20-22, 25 and 28. Although the analyte[redacted]ely identified in the samples, the quantitation is an estimat[redacted]ry of this analyte in the second source control sample. The ac[redacted]yte may be higher than the reported value.

Tetrahy[redacted]mples 5, 7, 8, 11, 12, 28 and 29-FB. 4-Methyl-2-Pentan[redacted]5-9, 11-12, 28 and 29. 2-Hexanone was UJ-coded in sample[redacted]and 29-FB. 1,2,4-Trichlorobenzene was UJ-coded in sample[redacted]B. These analytes were not found in the samples at or above [redacted] the reporting limits are estimated (UJ-coded) due to the cor[redacted]meeting accuracy specifications. The actual reporting limits for these analytes may be higher than the reported value.

Tetrahydrofuran was J-coded in samples 1, 3, 4, 6, 9 and 27. 4-Methyl-2-Pentanone was J-coded in samples 1, 3, 4, 27. Although the analytes in question has been positively identified in the samples, the quantitations are estimated (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for these analytes may be higher than the reported value.

Carbon Tetrachloride was J-coded in samples 1, 3-13, 15-18, 20-22, 24-26, 27. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy

Analysis	Comments About Results For This Analysis

specific[redacted]tion for this analyte may be lower than the reported value.

2,2,4-T[redacted]d in samples 5-8 and 11-12. Heptane was UJ-coded in sample[redacted]UJ-coded in sample 29-FB. Styrene was UJ-coded in sample[redacted]ytes were not found in the samples at or above the reportin[redacted]orting limits are estimated (UJ-coded) due to low recover[redacted]oratory control sample. The actual reporting limit for these a[redacted]e reported value.

2,2,4-T[redacted]in samples 4 and 9. Heptane was J-coded in samples 4, 5, 7[redacted]ed in samples 4-9, 11-12, 27 and 28. Styrene was J-coded [redacted]hough the analytes in question has been positively identifi[redacted]ations are estimated (J-coded) due to low recovery of these [redacted]ontrol sample. The actual concentration for these analyte[redacted]rted value.

Vinyl C[redacted]le 25. Although the analyte in question has been positive[redacted]he quantitation is an estimate (J-coded) due to high recover[redacted]tory control sample. The actual concentration for this analyte[redacted]ed value.

1,1,2-T[redacted]e, Dibromochloromethane, 1,2-Dibromoethane, Chlorob[redacted],1,2,2-Tetrachloroethane, 4-Ethyltoluene, 1,3-Dichlor[redacted]ne, Benzyl Chloride, 1,2-Dichlorobenzene, 1,2,4-Trichlo[redacted]adiene were UJ-coded in sample 27. These analytes were n[redacted]ove the reporting limits, however, the reporting limits are est[redacted]gh internal standard response. The actual reporting limit fo[redacted]r than the reported value.

Tetrach[redacted] m and/or p-Xylene, o-Xylene, Styrene, 1,3,5-Trimeth[redacted]ylbenzene were J-coded in sample 27. Although the analyte[redacted]ively identified in the sample, the quantitations are estimat[redacted]rnal standard response. The actual concentration for these a[redacted]e reported value.

Aceton[redacted]ded in sample 3. Although the analytes in question have be[redacted] sample, the quantitations are estimates (J-coded) due to the reported values exceeding the calibrated range of the instrument.

Ethyl Acetate was J-coded in sample 27. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to poor precision obtained for this analyte in the laboratory duplicate sample.

1 Acid Herbicides in Water by LCMSMS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3280.1C

Samples: 101- 102-FB

Analysis	Comments About Results For This Analysis

Comm
None

1 Mercury - Dis

Lab: R as City, Ks.

Metho 3121.23E applied to field filtered samples for

Sampl

Comm
(N/A)

1 Mercury in W

Lab: R as City, Ks.

Metho 3121.23E

Sampl

Comm
(N/A)

1 Metals - Diss

Lab: R as City, Ks.

Metho 3123.1E Applied to Field Filtered Samples for

Sampl

Comm

1 Metals in Wat

Lab: R as City, Ks.

Metho 3123.1E

Sampl

Comments:

1 Pesticides and PCBs in Water by Twister GC/MS

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.20D for Pesticides only

Samples: 101- 102-FB

Comments:
Due to linearity problems at the low end of the curve, the reporting limit for B-BHC has

Analysis	Comments About Results For This Analysis

been ra g/L.

Due to ibration curve was not performed fresh. A curve from March 2 sults for Toxaphene are UJ coded in all samples.

1 Semi-Volatile

Lab: R as City, Ks.

Metho 3230.2I

Sample

Comm

Benzoic Pentachlorophenol, Dibenz(a,h)anthracene and Indeno ed in samples 101 and 102FB. These analytes were not fou the reporting limit, however, the reporting limit is an estimat al instrument calibration curve not meeting linearity specific mit may be higher than the reported values.

2,4-Din enol were UJ-coded in samples 101 and 102FB. These analyte nples at or above the reporting limit, however, the reportin ed) due to the initial instrument calibration curve not meetin he actual reporting limit may be higher than the reporte

Slight I found in the laboratory method blank. Only samples contain eater than ten times the contamination level of the blank a ified. All samples that contained this analyte but at a level le nation in the blank have the result U-coded indicating that th ed to the level found in the sample. Samples affected were:

Benzo(anthene, Benzo(g,h,i)perylene, Di-n-octylphthalate, and Ind -coded in sample 101. These analytes were not found in the ing limit, however, the reporting limit is an estimate (UJ-cod ained for these analytes in the laboratory matrix spike and ma ual reporting limit for these analytes may be higher than th

1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Lab: REST Contract Lab (Out-Source)

Method: Similar to Modified version of SW846 Method 8015 (see comments)

Samples: 101- 102-FB

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Analysis	Comments About Results For This Analysis
	Metho 3230.13F
	Sample FB
	Comm
	The r 3-Dichloropropene, trans-1,3-Dichloropropene and Naphth 2ug/L, 2ug/L and 5ug/L, respectively) due to the linearit (s).
	Aceton e were UJ-coded in samples 101, 102FB and 104FB. These a samples at or above the reporting limit, however, the reportin coded) due to the continuing calibration check not meetin he actual reporting limit for these analytes may be higher
	Chlorof e were UJ-coded in sample 101. These analytes were not fou the reporting limit, however, the reporting limit is an estimat very of these analytes in the laboratory matrix spike. The act alytes may be higher than the reported value.
1	Volatile TPH i
	Lab: R
	Metho C/MS (see comments)
	Sample
	Comm
	(N/A)

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	190	N/A O	150 J	150
Allyl Chloride	ug/m3	0.32 U	N/A O	0.32 U	0.32 U
Benzene	ug/m3	6.9	N/A O	1.3	1.3
Benzyl Chloride	ug/m3	4.2 UJ	N/A O	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	N/A O	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	N/A O	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	N/A O	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	N/A O	0.45 U	0.45 U
2-Butanone	ug/m3	29	N/A O	15	15
Carbon Disulfide	ug/m3	0.63 U	N/A O	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.72 J	N/A O	1.2 J	1.2 J
Chlorobenzene	ug/m3	0.93 U	N/A O	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	N/A O	0.53 U	0.53 U
Chloroform	ug/m3	1.8	N/A O	3.8	3.6
Chloromethane	ug/m3	1.9	N/A O	1.7	1.8
Cyclohexane	ug/m3	1.6	N/A O	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	N/A O	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	N/A O	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	N/A O	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	N/A O	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	55	N/A O	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.7	N/A O	2.6	2.5
1,1-Dichloroethane	ug/m3	0.82 U	N/A O	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	3.4	N/A O	0.63	0.52
1,1-Dichloroethene	ug/m3	0.73	N/A O	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	N/A O	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	N/A O	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	N/A O	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	N/A O	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	N/A O	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	N/A O	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	N/A O	0.73 U	0.73 U
Ethyl Acetate	ug/m3	7.2	N/A O	120 J	89
Ethyl Benzene	ug/m3	14	N/A O	2.1	2.1
4-Ethyltoluene	ug/m3	4.4	N/A O	4.0 U	4.0 U
Heptane	ug/m3	6.2	N/A O	1.6	1.6 J
Hexachlorobutadiene	ug/m3	2.2 U	N/A O	2.2 U	2.2 U
Hexane	ug/m3	8.0	N/A O	1.5	1.4
2-Hexanone	ug/m3	1.7 UJ	N/A O	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	N/A O	0.73 U	0.73 U
Methylene Chloride	ug/m3	8.8	N/A O	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	4.3 J	N/A O	4.8 J	4.3 J
2-Propanol	ug/m3	20	N/A O	44	42
Propene	ug/m3	2.6	N/A O	1.1	1.0
Styrene	ug/m3	3.1	N/A O	21	20 J

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	N/A O	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.52	N/A O	0.36	0.34
Tetrahydrofuran	ug/m3	6.4 J	N/A O	1.9 J	1.8 J
Toluene	ug/m3	76	N/A O	12	12 J
1,2,4-Trichlorobenzene	ug/m3	1.5 U	N/A O	1.5 U	1.5 UJ
1,1,1-Trichloroethane	ug/m3	1.9	N/A O	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	N/A O	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	N/A O	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	28	N/A O	2.0	2.0
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	N/A O	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	15	N/A O	1.5	1.5
1,3,5-Trimethylbenzene	ug/m3	3.6	N/A O	0.99 U	0.99 U
2,2,4-Trimethylpentane	ug/m3	25	N/A O	8.3	7.2 J
Vinyl Acetate	ug/m3	13 J	N/A O	10 J	9.8 J
Vinyl Bromide	ug/m3	0.88 U	N/A O	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	N/A O	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	46	N/A O	6.5	6.4
o-Xylene	ug/m3	16	N/A O	2.2	2.2

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	100	88	16	13
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	0.75	0.59	0.81	0.58
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	7.7	17	4.9	1.9 U
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.66 J	0.84 J	0.42 J	0.64 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	1.6	2.5	8.3	0.13
Chloromethane	ug/m3	1.6	2.1	16	1.3
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	2.8
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	39	3.7	1.0 U	2.6
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.16	0.15	0.10 U	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	1.8	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	9.4	19	1.1 U	1.1 U
Ethyl Benzene	ug/m3	0.88 U	0.88 U	5.9	0.88 U
4-Ethyltoluene	ug/m3	4.0 U	4.0 U	4.0 U	4.0 U
Heptane	ug/m3	0.86 J	0.83 UJ	1.4 J	0.83 UJ
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	1.4	0.71 U	0.71 U	0.71 U
2-Hexanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
2-Propanol	ug/m3	120	76	0.66	0.50 U
Propene	ug/m3	1.9	0.35 U	0.35 U	0.58
Styrene	ug/m3	1.5 J	0.86 UJ	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	7.1	0.34 U	39	0.34 U
Tetrahydrofuran	ug/m3	0.60 UJ	1.3 J	0.60 UJ	0.60 UJ
Toluene	ug/m3	14 J	3.1 J	14 J	1.4 J
1,2,4-Trichlorobenzene	ug/m3	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	11	14	2.2	1.6
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	0.99 U	0.99 U	11	0.99 U
1,3,5-Trimethylbenzene	ug/m3	0.99 U	0.99 U	2.1	0.99 U
2,2,4-Trimethylpentane	ug/m3	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl Acetate	ug/m3	10 J	12 J	1.4 J	0.85 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	1.8 U	1.8 U	26	1.8 U
o-Xylene	ug/m3	0.88 U	0.88 U	7.7	0.88 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	94	27	46	46
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	8.8	1.5	0.77	1.1
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	31	4.1	4.2	3.9
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.75 J	0.72 J	0.65 J	0.62 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	0.92	0.28	1.4	0.92
Chloromethane	ug/m3	1.5	0.53	1.4	1.0
Cyclohexane	ug/m3	3.0	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	6.6	9.0	2.4	2.5
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	0.30	0.10 U	1.8	1.2
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	7.5	1.1 U	6.4	4.2
Ethyl Benzene	ug/m3	6.7	5.1	0.88 U	3.5
4-Ethyltoluene	ug/m3	4.0 U	4.0 U	4.0 U	4.0 U
Heptane	ug/m3	5.2 J	1.2	0.83 UJ	1.2 J
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	13	1.5	0.71 U	0.81
2-Hexanone	ug/m3	1.7 UJ	1.7 U	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	5.8	3.5	2.2	1.4
4-Methyl-2-Pentanone	ug/m3	1.7 UJ	1.7 U	1.7 UJ	1.7 UJ
2-Propanol	ug/m3	32	0.87	5.6	3.6
Propene	ug/m3	2.1	0.58	0.35 U	0.35 U
Styrene	ug/m3	3.8 J	0.86 U	0.86 UJ	0.86 UJ

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	10	36	0.34 U	18
Tetrahydrofuran	ug/m3	1.2 J	0.60 U	0.60 UJ	0.60 UJ
Toluene	ug/m3	55 J	18	4.7 J	13 J
1,2,4-Trichlorobenzene	ug/m3	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.8	1.7	1.8	1.7
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	7.6	7.6	0.99 U	3.5
1,3,5-Trimethylbenzene	ug/m3	1.5	1.4	0.99 U	0.99 U
2,2,4-Trimethylpentane	ug/m3	5.7 J	1.0 U	1.0 UJ	1.0 UJ
Vinyl Acetate	ug/m3	0.72 UJ	0.72 UJ	2.7 J	2.2 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	25	22	1.8 U	13
o-Xylene	ug/m3	8.0	6.5	0.88 U	3.9

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	720	65	65	11
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	1.4	0.57	1.1	0.94
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	27	4.0	7.1	2.2
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.85	0.92
Carbon Tetrachloride	ug/m3	0.75 J	0.32 U	0.69 J	0.69 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	2.9	0.54	2.3	2.2
Chloromethane	ug/m3	1.4	0.42 U	1.9	0.92
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.2	1.0 U	2.4	2.6
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	2.1	0.14	0.45	0.43
1,1-Dichloroethene	ug/m3	0.86	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	19	1.1 U	13	1.1 U
Ethyl Benzene	ug/m3	0.88 U	3.8	0.88 U	5.6
4-Ethyltoluene	ug/m3	4.0 U	4.0 U	4.0 U	4.0 U
Heptane	ug/m3	0.83 U	0.83 U	0.83 U	1.4
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	1.3	0.71 U	0.71	0.77
2-Hexanone	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	8.5	1.2	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	3.7	1.7 U
2-Propanol	ug/m3	10	0.63	4.7	0.50 U
Propene	ug/m3	3.9	0.35 U	1.8	2.3
Styrene	ug/m3	0.86 U	0.86 U	1.2	0.86 U

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	32	0.37	1100
Tetrahydrofuran	ug/m3	5.8	0.60 U	1.7	0.60 U
Toluene	ug/m3	8.1	9.7	5.2	12
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.5	1.4	1.6	1.6
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	1.7	6.3	0.99 U	11
1,3,5-Trimethylbenzene	ug/m3	0.99 U	1.2	0.99 U	2.1
2,2,4-Trimethylpentane	ug/m3	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Acetate	ug/m3	3.6 J	0.83 J	5.8 J	1.0 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	2.3	17	1.8	25
o-Xylene	ug/m3	1.1	5.0	0.88 U	7.5

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	200	11	15	44
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	9.1	0.75	1.0	1.3
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	34	1.9 U	3.8	8.7
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.62 J	0.58 J	0.32 U	0.61 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	2.2	0.24	0.12 U	1.0
Chloromethane	ug/m3	1.6	1.2	0.42 U	1.5
Cyclohexane	ug/m3	7.2	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	1.8	2.5	1.0 U	2.4
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	9.8	0.10 U	0.10 U	0.17
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	67	1.1 U	1.1 U	8.4
Ethyl Benzene	ug/m3	13	0.88 U	1.2	0.88 U
4-Ethyltoluene	ug/m3	4.0 U	4.0 U	4.0 U	4.0 U
Heptane	ug/m3	10	0.83 U	1.4	0.89
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	23	0.89	1.2	2.2
2-Hexanone	ug/m3	2.1	1.7 U	1.7 U	1.7 U
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	3.2	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	2.7	1.7 U	1.7 U	1.7 U
2-Propanol	ug/m3	70	0.59	4.6	12
Propene	ug/m3	2.9	0.63	0.35 U	1.8
Styrene	ug/m3	1.8	0.86 U	3.9	0.86 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.34 U	0.34 U	0.61
Tetrahydrofuran	ug/m3	15	0.60 U	0.60 U	8.6
Toluene	ug/m3	47	2.3	21	10
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	15	1.5	1.1 U	1.6
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	9.9	0.99 U	1.8	0.99 U
1,3,5-Trimethylbenzene	ug/m3	2.3	0.99 U	0.99 U	0.99 U
2,2,4-Trimethylpentane	ug/m3	6.0	1.0 U	10	1.1
Vinyl Acetate	ug/m3	0.72 UJ	0.72 UJ	0.72 UJ	4.8 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	46	1.8 U	5.1	2.3
o-Xylene	ug/m3	13	0.88 U	1.8	0.88 U

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	61	70	7.7	8.7
Allyl Chloride	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
Benzene	ug/m3	2.3	0.65	0.50	0.48
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.96	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	7.6	6.3	1.9 U	1.9 U
Carbon Disulfide	ug/m3	0.63 U	0.63 U	0.63 U	0.63 U
Carbon Tetrachloride	ug/m3	0.72 J	0.70 J	0.32 U	0.60 J
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	1.7	0.39	0.12 U	0.19
Chloromethane	ug/m3	3.3	1.4	0.42 U	1.2
Cyclohexane	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	ug/m3	2.0	2.4	1.0 U	2.6
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	1.2	5.1	0.10 U	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	3.8	43	1.1 U	1.1 U
Ethyl Benzene	ug/m3	1.2	0.88 U	4.0	0.88 U
4-Ethyltoluene	ug/m3	4.0 U	4.0 U	4.0 U	4.0 U
Heptane	ug/m3	0.97	0.83 U	0.96	0.83 U
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 U	2.2 U
Hexane	ug/m3	1.9	0.94	0.71 U	0.71 U
2-Hexanone	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	0.70 U	0.70 U	0.70 U	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U
2-Propanol	ug/m3	210	17	0.50 U	0.50 U
Propene	ug/m3	6.6	3.1	0.35 U	0.45
Styrene	ug/m3	1.2	0.86 U	0.86 U	0.86 U

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	ug/m3	0.34 U	0.44	23	0.34 U
Tetrahydrofuran	ug/m3	0.60 U	0.60 U	0.60 U	0.60 U
Toluene	ug/m3	9.3	4.7	8.6	4.3
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	3.3	2.4	1.8	1.5
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	1.6	0.99 U	8.8	0.99 U
1,3,5-Trimethylbenzene	ug/m3	0.99 U	0.99 U	1.7	0.99 U
2,2,4-Trimethylpentane	ug/m3	1.2	1.0 U	1.0 U	1.0 U
Vinyl Acetate	ug/m3	6.9 J	3.8 J	0.72 UJ	0.72 UJ
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.13 U	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	4.5	1.8 U	18	1.8 U
o-Xylene	ug/m3	1.4	0.88 U	6.1	0.88 U

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	92	75	290	13
Allyl Chloride	ug/m3	0.32 U	0.32 U	9.6	0.32 U
Benzene	ug/m3	0.90	4.5	8.5	0.48
Benzyl Chloride	ug/m3	4.2 UJ	4.2 UJ	4.2 UJ	4.2 UJ
Bromodichloromethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	ug/m3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	ug/m3	0.78 U	0.78 U	0.78 U	0.78 U
1,3-Butadiene	ug/m3	0.45 U	0.45 U	0.45 U	0.45 U
2-Butanone	ug/m3	6.9	4.5	11	1.9 U
Carbon Disulfide	ug/m3	0.63 U	0.63 U	1.4	0.63 U
Carbon Tetrachloride	ug/m3	0.66 J	0.32 J	0.71 J	0.32 U
Chlorobenzene	ug/m3	0.93 U	0.93 U	0.93 UJ	0.93 U
Chloroethane	ug/m3	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	ug/m3	1.6	0.26	3.2	25
Chloromethane	ug/m3	1.8	0.60	2.5	0.42 U
Cyclohexane	ug/m3	0.70 U	4.6	8.4	0.70 U
Dibromochloromethane	ug/m3	1.7 U	1.7 U	1.7 UJ	1.7 U
1,2-Dibromoethane	ug/m3	1.6 U	1.6 U	1.6 UJ	1.6 U
1,2-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 UJ	1.2 U
1,3-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 UJ	1.2 U
1,4-Dichlorobenzene	ug/m3	1.2 U	1.2 U	1.2 UJ	1.2 U
Dichlorodifluoromethane	ug/m3	2.4	1.0 U	2.2	1.0 U
1,1-Dichloroethane	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U
1,2-Dichloroethane	ug/m3	1.8	0.20	0.41	0.10 U
1,1-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	ug/m3	0.93 U	0.93 U	0.93 U	0.93 U
cis-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
trans-1,3-Dichloropropene	ug/m3	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dioxane	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Ethyl Acetate	ug/m3	8.7	1.1 U	85 J	1.8
Ethyl Benzene	ug/m3	1.4	9.7	8.4 J	3.2
4-Ethyltoluene	ug/m3	4.0 U	4.8	4.0 UJ	4.0 U
Heptane	ug/m3	0.83 U	12	10	0.89
Hexachlorobutadiene	ug/m3	2.2 U	2.2 U	2.2 UJ	2.2 U
Hexane	ug/m3	0.82	12	28	0.71 U
2-Hexanone	ug/m3	1.7 U	1.7 U	1.7 UJ	1.7 UJ
Methyl tert-butyl ether	ug/m3	0.73 U	0.73 U	0.73 U	0.73 U
Methylene Chloride	ug/m3	1.6	0.70 U	2.4	0.70 U
4-Methyl-2-Pentanone	ug/m3	1.7 U	1.9	4.0 J	1.7 UJ
2-Propanol	ug/m3	72	2.4	28	0.50 U
Propene	ug/m3	1.4	0.35 U	4.8	0.35 U
Styrene	ug/m3	2.1	0.86 U	1.8 J	0.86 U

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U	1.4 U	1.4 UJ	1.4 U
Tetrachloroethene	ug/m3	0.34 U	12	7.2 J	20
Tetrahydrofuran	ug/m3	3.3	0.60 U	0.67 J	0.60 UJ
Toluene	ug/m3	8.5	49	42 J	6.5 J
1,2,4-Trichlorobenzene	ug/m3	1.5 U	1.5 U	1.5 UJ	1.5 UJ
1,1,1-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 U	1.1 U
1,1,2-Trichloroethane	ug/m3	1.1 U	1.1 U	1.1 UJ	1.1 U
Trichloroethene	ug/m3	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	ug/m3	1.8	1.6	1.8	1.5
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	ug/m3	1.0	18	8.9 J	7.5
1,3,5-Trimethylbenzene	ug/m3	0.99 U	3.6	2.5 J	1.4
2,2,4-Trimethylpentane	ug/m3	1.2	9.1	25	1.0 U
Vinyl Acetate	ug/m3	5.0 J	0.72 UJ	0.72 UJ	1.2 J
Vinyl Bromide	ug/m3	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl Chloride	ug/m3	0.15 J	0.13 U	0.13 U	0.13 U
m and/or p-Xylene	ug/m3	3.2	39	30 J	14
o-Xylene	ug/m3	1.3	14	11 J	5.0

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS					
Acetone	ug/m3	0.96 U			
Allyl Chloride	ug/m3	0.32 U			
Benzene	ug/m3	0.16 U			
Benzyl Chloride	ug/m3	4.2 UJ			
Bromodichloromethane	ug/m3	1.4 U			
Bromoform	ug/m3	2.1 U			
Bromomethane	ug/m3	0.78 U			
1,3-Butadiene	ug/m3	0.45 U			
2-Butanone	ug/m3	1.9 U			
Carbon Disulfide	ug/m3	0.63 U			
Carbon Tetrachloride	ug/m3	0.32 U			
Chlorobenzene	ug/m3	0.93 U			
Chloroethane	ug/m3	0.53 U			
Chloroform	ug/m3	0.12 U			
Chloromethane	ug/m3	0.42 U			
Cyclohexane	ug/m3	0.70 U			
Dibromochloromethane	ug/m3	1.7 U			
1,2-Dibromoethane	ug/m3	1.6 U			
1,2-Dichlorobenzene	ug/m3	1.2 U			
1,3-Dichlorobenzene	ug/m3	1.2 U			
1,4-Dichlorobenzene	ug/m3	1.2 U			
Dichlorodifluoromethane	ug/m3	1.0 U			
1,1-Dichloroethane	ug/m3	0.82 U			
1,2-Dichloroethane	ug/m3	0.10 U			
1,1-Dichloroethene	ug/m3	0.20 U			
cis-1,2-Dichloroethene	ug/m3	0.20 U			
trans-1,2-Dichloroethene	ug/m3	0.20 U			
1,2-Dichloropropane	ug/m3	0.93 U			
cis-1,3-Dichloropropene	ug/m3	0.46 U			
trans-1,3-Dichloropropene	ug/m3	0.46 U			
1,2-Dichlorotetrafluoroethane	ug/m3	1.4 U			
1,4-Dioxane	ug/m3	0.73 U			
Ethyl Acetate	ug/m3	1.1 U			
Ethyl Benzene	ug/m3	0.88 U			
4-Ethyltoluene	ug/m3	4.0 U			
Heptane	ug/m3	0.83 U			
Hexachlorobutadiene	ug/m3	2.2 U			
Hexane	ug/m3	0.71 U			
2-Hexanone	ug/m3	1.7 UJ			
Methyl tert-butyl ether	ug/m3	0.73 U			
Methylene Chloride	ug/m3	0.70 U			
4-Methyl-2-Pentanone	ug/m3	1.7 UJ			
2-Propanol	ug/m3	0.50 U			
Propene	ug/m3	0.35 U			
Styrene	ug/m3	0.86 U			

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
1,1,2,2-Tetrachloroethane	ug/m3	1.4 U			
Tetrachloroethene	ug/m3	0.34 U			
Tetrahydrofuran	ug/m3	0.60 UJ			
Toluene	ug/m3	0.76 UJ			
1,2,4-Trichlorobenzene	ug/m3	1.5 UJ			
1,1,1-Trichloroethane	ug/m3	1.1 U			
1,1,2-Trichloroethane	ug/m3	1.1 U			
Trichloroethene	ug/m3	0.27 U			
Trichlorofluoromethane	ug/m3	1.1 U			
1,1,2-Trichlorotrifluoroethane	ug/m3	1.5 U			
1,2,4-Trimethylbenzene	ug/m3	0.99 U			
1,3,5-Trimethylbenzene	ug/m3	0.99 U			
2,2,4-Trimethylpentane	ug/m3	1.0 U			
Vinyl Acetate	ug/m3	0.72 UJ			
Vinyl Bromide	ug/m3	0.88 U			
Vinyl Chloride	ug/m3	0.13 U			
m and/or p-Xylene	ug/m3	1.8 U			
o-Xylene	ug/m3	0.88 U			
1 Acid Herbicides in Water by LCMSMS					
2,4,5-T	ug/L		0.050 U	0.050 U	
2,4,5-TP	ug/L		0.050 U	0.050 U	
2,4-D	ug/L		0.050 U	0.050 U	
Dicamba	ug/L		0.050 U	0.050 U	
Dichlorprop	ug/L		0.050 U	0.050 U	
Pentachlorophenol	ug/L		0.050 U	0.050 U	
Triclopyr	ug/L		0.050 U	0.050 U	
1 Mercury - Dissolved, in Water					
Mercury	ug/L		0.250 U	0.250 U	
1 Mercury in Water					
Mercury	ug/L		0.250 U	0.250 U	
1 Metals - Dissolved, in Water by ICP/MS					
Antimony	ug/L		2.0 U	2.0 U	
Arsenic	ug/L		1.0 U	1.0 U	
Barium	ug/L		293	5.0 U	
Beryllium	ug/L		1.0 U	1.0 U	
Cadmium	ug/L		1.0 U	1.0 U	
Chromium	ug/L		5.4	2.0 U	
Cobalt	ug/L		1.0 U	1.0 U	
Copper	ug/L		12.7	2.0 U	
Lead	ug/L		3.5	1.0 U	
Manganese	ug/L		130	1.0 U	
Nickel	ug/L		5.5	1.0 U	
Selenium	ug/L		5.0 U	5.0 U	
Silver	ug/L		1.0 U	1.0 U	
Thallium	ug/L		1.0 U	1.0 U	

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
Vanadium	ug/L		1.0 U	1.0 U	
Zinc	ug/L		19.5	3.3	
1 Metals in Water by ICP/MS					
Antimony	ug/L		2.0 U	2.0 U	
Arsenic	ug/L		1.0 U	1.0 U	
Barium	ug/L		306	5.0 U	
Beryllium	ug/L		1.0 U	1.0 U	
Cadmium	ug/L		1.0 U	1.0 U	
Chromium	ug/L		2.0 U	2.0 U	
Cobalt	ug/L		1.0 U	1.0 U	
Copper	ug/L		10.9	2.0 U	
Lead	ug/L		2.5	1.0 U	
Manganese	ug/L		141	1.0 U	
Nickel	ug/L		5.3	1.0 U	
Selenium	ug/L		5.0 U	5.0 U	
Silver	ug/L		1.0 U	1.0 U	
Thallium	ug/L		1.0 U	1.0 U	
Vanadium	ug/L		1.0 U	1.0 U	
Zinc	ug/L		8.2	2.0 U	
1 Pesticides and PCBs in Water by Twister GC/MS					
Aldrin	ug/L		0.020 U	0.020 U	
Aroclor 1221	ug/L		0.25 U	0.25 U	
Aroclor 1232	ug/L		0.25 U	0.25 U	
Aroclor 1242	ug/L		0.25 U	0.25 U	
Aroclor 1248	ug/L		0.25 U	0.25 U	
Aroclor 1254	ug/L		0.25 U	0.25 U	
Aroclor 1260	ug/L		0.25 U	0.25 U	
A-BHC	ug/L		0.020 U	0.020 U	
B-BHC	ug/L		0.10 U	0.10 U	
D-BHC	ug/L		0.050 U	0.050 U	
G-BHC	ug/L		0.020 U	0.020 U	
cis-Chlordane	ug/L		0.020 U	0.020 U	
Chlordane, technical	ug/L		0.20 U	0.20 U	
trans-Chlordane	ug/L		0.020 U	0.020 U	
p,p'-DDD	ug/L		0.020 U	0.020 U	
p,p'-DDE	ug/L		0.020 U	0.020 U	
p,p'-DDT	ug/L		0.020 U	0.020 U	
Dieldrin	ug/L		0.020 U	0.020 U	
Endosulfan I	ug/L		0.020 U	0.020 U	
Endosulfan II	ug/L		0.020 U	0.020 U	
Endosulfan Sulfate	ug/L		0.020 U	0.020 U	
Endrin	ug/L		0.020 U	0.020 U	
Endrin Aldehyde	ug/L		0.10 U	0.10 U	
Endrin Ketone	ug/L		0.020 U	0.020 U	
Heptachlor	ug/L		0.020 U	0.020 U	

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
Heptachlor Epoxide	ug/L		0.020 U	0.020 U	
p,p'-Methoxychlor	ug/L		0.020 U	0.020 U	
Toxaphene	ug/L		1.0 UJ	1.0 UJ	
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L		2.0 U	2.0 U	
Acenaphthylene	ug/L		2.0 U	2.0 U	
Anthracene	ug/L		2.0 U	2.0 U	
Benzo(a)anthracene	ug/L		2.0 U	2.0 U	
Benzo(a)pyrene	ug/L		2.0 U	2.0 U	
Benzo(b)fluoranthene	ug/L		2.0 UJ	2.0 U	
Benzo(g,h,i)perylene	ug/L		2.0 UJ	2.0 U	
Benzo(k)fluoranthene	ug/L		2.0 UJ	2.0 U	
Benzoic acid	ug/L		10 UJ	10 UJ	
Benzyl alcohol	ug/L		5.0 U	5.0 U	
bis(2-Chloroethoxy)methane	ug/L		2.0 U	2.0 U	
bis(2-Chloroethyl)ether	ug/L		2.0 U	2.0 U	
bis(2-Chloroisopropyl)ether	ug/L		2.0 U	2.0 U	
bis(2-Ethylhexyl)phthalate	ug/L		5.0 U	5.0 U	
4-Bromophenyl-phenylether	ug/L		2.0 U	2.0 U	
Butylbenzylphthalate	ug/L		5.0 U	5.0 U	
Carbazole	ug/L		5.0 U	5.0 U	
4-Chloro-3-methylphenol	ug/L		5.0 U	5.0 U	
4-Chloroaniline	ug/L		10 U	10 U	
2-Chloronaphthalene	ug/L		2.0 U	2.0 U	
2-Chlorophenol	ug/L		5.0 U	5.0 U	
4-Chlorophenyl-phenylether	ug/L		2.0 U	2.0 U	
Chrysene	ug/L		2.0 U	2.0 U	
Di-n-butylphthalate	ug/L		5.0 U	5.0 U	
Di-n-octylphthalate	ug/L		5.0 UJ	5.0 U	
Dibenz(a,h)anthracene	ug/L		2.0 UJ	2.0 UJ	
Dibenzofuran	ug/L		2.0 U	2.0 U	
1,2-Dichlorobenzene	ug/L		2.0 U	2.0 U	
1,3-Dichlorobenzene	ug/L		2.0 U	2.0 U	
1,4-Dichlorobenzene	ug/L		2.0 U	2.0 U	
3,3'-Dichlorobenzidine	ug/L		10 U	10 U	
2,4-Dichlorophenol	ug/L		5.0 U	5.0 U	
Diethylphthalate	ug/L		2.0 U	2.0 U	
2,4-Dimethylphenol	ug/L		2.0 U	2.0 U	
Dimethylphthalate	ug/L		2.0 U	2.0 U	
4,6-Dinitro-2-methylphenol	ug/L		10 U	10 U	
2,4-Dinitrophenol	ug/L		10 UJ	10 UJ	
2,4-Dinitrotoluene	ug/L		2.0 U	2.0 U	
2,6-Dinitrotoluene	ug/L		2.0 U	2.0 U	
Fluoranthene	ug/L		2.0 U	2.0 U	
Fluorene	ug/L		2.0 U	2.0 U	

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
Hexachlorobenzene	ug/L		2.0 U	2.0 U	
Hexachlorobutadiene	ug/L		2.0 U	2.0 U	
Hexachlorocyclopentadiene	ug/L		2.0 U	2.0 U	
Hexachloroethane	ug/L		2.0 U	2.0 U	
Indeno(1,2,3-cd)pyrene	ug/L		2.0 UJ	2.0 UJ	
Isophorone	ug/L		3.9 U	4.4 U	
2-Methylnaphthalene	ug/L		2.0 U	2.0 U	
2-Methylphenol	ug/L		5.0 U	5.0 U	
4-Methylphenol	ug/L		5.0 U	5.0 U	
Naphthalene	ug/L		2.0 U	2.0 U	
2-Nitroaniline	ug/L		5.0 U	5.0 U	
3-Nitroaniline	ug/L		5.0 U	5.0 U	
4-Nitroaniline	ug/L		10 U	10 U	
Nitrobenzene	ug/L		2.0 U	2.0 U	
2-Nitrophenol	ug/L		5.0 U	5.0 U	
4-Nitrophenol	ug/L		10 U	10 U	
N-nitroso-di-n-propylamine	ug/L		5.0 U	5.0 U	
N-nitrosodiphenylamine	ug/L		2.0 U	2.0 U	
Pentachlorophenol	ug/L		5.0 UJ	5.0 UJ	
Phenanthrene	ug/L		2.0 U	2.0 U	
Phenol	ug/L		2.0 U	2.0 U	
Pyrene	ug/L		2.0 U	2.0 U	
1,2,4-Trichlorobenzene	ug/L		2.0 U	2.0 U	
2,4,5-Trichlorophenol	ug/L		5.0 U	5.0 U	
2,4,6-Trichlorophenol	ug/L		5.0 U	5.0 U	
1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID					
TPH DRO	mg/L		0.5 U	0.5 U	
TPH ORO	mg/L		2 U	2 U	
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L		5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L		1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L		1.0 U	1.0 U	1.0 U
Bromoform	ug/L		1.0 U	1.0 U	1.0 U
Bromomethane	ug/L		1.0 U	1.0 U	1.0 U
2-Butanone	ug/L		5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L		1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L		1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
Chloroethane	ug/L		1.0 U	1.0 U	1.0 U
Chloroform	ug/L		1.0 UJ	1.2	1.0 U
Chloromethane	ug/L		1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L		1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L		5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L		1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L		1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	29-FB	101-__	102-FB	104-FB
1,2-Dichlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L		1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L		1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L		1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L		1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L		1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L		1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L		2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	ug/L		2.0 U	2.0 U	2.0 U
Ethyl Benzene	ug/L		1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L		5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L		1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L		5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L		1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L		1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L		1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L		5.0 UJ	5.0 U	5.0 U
Naphthalene	ug/L		5.0 U	5.0 U	5.0 U
Styrene	ug/L		1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L		1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L		1.0 U	1.0 U	1.0 U
Toluene	ug/L		1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L		1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L		1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L		1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L		1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L		1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L		1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L		1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L		2.0 U	2.0 U	2.0 U
o-Xylene	ug/L		1.0 U	1.0 U	1.0 U
1 Volatile TPH in Water by GC/MS					
TPH GRO	mg/L		0.04 U	0.04 U	

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
MELINDA LUETKE	TANGLEFOOT LANE SIRA	8 (MONTH) 21-23 (DAY) 2018 (YEAR)	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	1 SUMMA BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7917- 1		1							X		
-2		1							X		
-3		1							X		
-4		1							X		
-5		1							X		
-6		1							X		
-7		1							X		
-8		1							X		
-9		1							X		
-10		1							X		
-11		1							X		
-12		1							X		
-13		1							X		
-14		1							X		
-15		1							X		
-16		1							X		
-17		1							X		
-18		1							X		
-19		1							X		
-20		1							X		
-21		1							X		
-22		1							X		
-23		1							X		
-24		1							X		

DESCRIPTION OF SHIPMENT

2 CONTAINER(S) CONSISTING OF 7 CRATE(S)

2 ICE CHEST(S): OTHER 2 TOTAL

8/24/18

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

✓ SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] SEALED UNSEALED	8-24-18	1020	Nick Rose SEALED UNSEALED	8/24/18	1020	Analysis
SEALED UNSEALED			SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED			RECEIVED BY SEALED UNSEALED			

7-EPA-9262 (REV 4/17) WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
MELINDA LUETKE	TANGLEFOOT LANE SIRA	8 (MONTH) 21-23 (DAY) 2018 (YEAR)	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	1 SUMMA BOTTLE	80 oz GLASS BOTTLE	1 VOA VIAL ~~BOTTLE~~	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7917 - 25		1							X		
- 26		1							X		
- 27		1							X		
- 28		1							X		
- 29-FB		1							X		
- 101	2		4	1	~~9~~ 6	X					pea size air bubble(s) in almost all vials — 8/24/18
- 102-FB	2		2	1	2	X					
- 104-FB					1	X					

ASR COMPLETE

[redacted] (b) (4)

8-24-2018

Clr. Temps. Rec'd bet. 2 - 4°C

DESCRIPTION OF SHIPMENT

50 CONTAINER(S) CONSISTING OF 7 CRATE(S)

2 ICE CHEST(S): OTHER 2 TOTAL

8/24/18

MODE OF SHIPMENT 8/24/18

COMMERCIAL CARRIER

✓ SAMPLER CONVEYED

(SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[redacted] (b) (4)	8-24-18	1020	[signature] SEALED UNSEALED	8/24/18	1020A	[signature]
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			
SEALED UNSEALED			SEALED UNSEALED			

7-EPA-9262 (REV 4/17) WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-1-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] – INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/21/18	09:45
	End:	8/22/18	09:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

FIRST FLOOR LIVING ROOM

REGULATOR ID: A0271062-10

CANISTER ID: 3261

PRESSURE: START: -29 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-2-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] – SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/21/18	09:42
End:	8/22/18	09:14

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) WESTERN CORNER OF BASEMENT.

REGULATOR ID: 129903-7277160

CANISTER ID: L5196

PRESSURE: START: -28 "Hg
STOP: -28 "Hg

NOTE: MOISTURE FOUND IN SUB-SLAB PORT LINE. MOST LIKELY CAUSED BY HIGH GROUNDWATER LEVELS DUE TO HEAVY RAIN IN THE AREA THIS WEEK.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-3-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	8/21/18	10:08
Longitude:	___ ___ ___	**End:**	8/22/18	09:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

1ST FLOOR LIVINGROOM

CANISTER ID: L5207

REGULATOR ID: 128518-7273159

PRESSURE: START: -29 "Hg
STOP: -3.5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 4 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-4-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/21/18 10:06
Longitude: ___ ___ ___ **End:** 8/22/18 09:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) BASEMENT IN QUILTING ROOM.

CANISTER ID: 16979

REGULATOR ID: A0282486-5

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 5 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-5-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] (b) (6) - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:36
Longitude: ___ ___ ___	**End:**	8/22/18	10:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

PAVILION STORAGE ROOM.

CANISTER ID: L5112

REGULATOR ID: A0283642-7

PRESSURE: START: -30 "Hg

STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 6 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-6-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:44
Longitude: ___ ___ ___	**End:**	8/22/18	10:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT SW CORNER ROOM OF RESIDENCE.

CANISTER ID: 3013

REGULATOR ID: A0299485-10

PRESSURE: START: -29.5 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 7 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-7-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:45
Longitude: ___ ___ ___	**End:**	8/22/18	10:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT SW STORAGE ROOM. OF RESIDENCE.

CANISTER ID: R2214

REGULATOR ID: A0298789-7

PRESSURE: START: -30 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 8 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-8-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] (b) (6) - EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	10:48
Longitude: ___ ___ ___	**End:**	8/22/18	10:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

WEST SIDE OF RESIDENCE.

CANISTER ID: 5024

REGULATOR ID: A0299486-5

PRESSURE: START: -29 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 9 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-9-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/21/18	11:42
	End:	8/22/18	11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) FIRST FLOOR LIVING ROOM.

CANISTER ID: 3032

REGULATOR ID: A0334387-3

PRESSURE: START: -29.5 "Hg
STOP: - 5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 10 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-10-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	11:45
Longitude: ___ ___ ___	**End:**	8/22/18	11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A) NE CORNER OF BASEMENT IN STORAGE ROOM.

CANISTER ID: 3025

REGULATOR ID: 128697-7273195

PRESSURE: START: -28.5 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 11 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-11-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	13:01
Longitude: ___ ___ ___	**End:**	8/22/18	12:33

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM - FIRST FLOOR

CANISTER ID: 4562

REGULATOR ID: A0271055-9

PRESSURE: START: -29.5 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 12 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-12-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	12:59
Longitude: ___ ___ ___	**End:**	8/22/18	12:32

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT STORAGE AREA.

CANISTER ID: 3030

REGULATOR ID: A0271055-8

PRESSURE: START: -29 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 13 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-13-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:14
Longitude: ___ ___ ___	**End:**	8/22/18	16:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

FIRST FLOOR LIVING ROOM

CANISTER ID: R0486

REGULATOR ID: A0334866-1

PRESSURE: START: -29 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 14 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-14-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:13
Longitude: ___ ___ ___	**End:**	8/22/18	16:08

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT LAUNDRY ROOM.

CANISTER ID: 4559

REGULATOR ID: A0334874-8

PRESSURE: START: -29.5 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 15 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-15-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/21/18 16:39
Longitude: ___ ___ ___ **End:** 8/22/18 16:22

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVINGROOM - FIRST FLOOR

CANISTER ID: L5203

REGULATOR ID: A0283642-1

PRESSURE: START: -29 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 16 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-16-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/21/18	16:30
Longitude: ___ ___ ___	**End:**	8/22/18	16:21

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT

CANISTER ID: 4056

REGULATOR ID: A0106061-5

PRESSURE: START: -27 "Hg

STOP: -3 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 17 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-17-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	08:19
	End:	8/23/18	08:02

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM

CANISTER ID: 4560

REGULATOR ID: A0298796-10

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 18 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-18-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	08:18
	End:	8/23/18	08:01

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT CLOSET

CANISTER ID: 14977

REGULATOR ID: A0334367-4

PRESSURE: START: -29.5 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 19 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-19-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	08:20
Longitude: ___ ___ ___	**End:**	8/23/18	08:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BACK PATIO

CANISTER ID: 3007

REGULATOR ID: A0283641-7

PRESSURE: START: -30 "Hg

STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 20 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-20-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted] (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	08:54
Longitude: ___ ___ ___	**End:**	8/23/18	08:21

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT LIVINGROOM

CANISTER ID: L5184

REGULATOR ID: A0299486-2

PRESSURE: START: -29.5 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 21 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-21-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

		Date	Time(24 hr)
Sample Collection:	**Start:**	8/22/18	10:30
	End:	8/23/18	10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT LIVING ROOM.

CANISTER ID: 4571

REGULATOR ID: 7342924

PRESSURE: START: -30 "Hg
STOP: - 8 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 22 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-22-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/22/18	11:00
End:	8/23/18	10:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

1ST FLOOR LIVING ROOM

CANISTER ID: L5191

REGULATOR ID: A0333292-6

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 23 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-23-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/22/18	10:59
End:	8/23/18	10:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT STORAGE ROOM.

CANISTER ID: 4569

REGULATOR ID: A0334874-5

PRESSURE: START: -30 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 24 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-24-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] EXTERIOR AMBIENT AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	11:04
Longitude: ___ ___ ___	**End:**	8/23/18	10:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:
(N/A)

WEST SIDE OF HOUSE.

CANISTER ID: L5195

REGULATOR ID: A0289195-1

PRESSURE: START: -30 "Hg
STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 25 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-25-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___
Longitude: ___ ___ ___

	Date	Time(24 hr)
Sample Collection: Start:	8/22/18	12:57
End:	8/23/18	12:12

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM - FIRST FLOOR

CANISTER ID: L5182

REGULATOR ID: A0298796-4

PRESSURE: START: -30 "Hg
STOP: -5 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 26 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-26-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	8/22/18	12:56
Longitude: ___ ___ ___	**End:**	8/23/18	12:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT - ~~UNDER~~ NEAR STAIRS

CANISTER ID: L5193

REGULATOR ID: A0334394-3

PRESSURE: START: -30 "Hg
STOP: -6 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 27 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-27-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] INDOOR AIR

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 15:10
Longitude: ___ ___ ___ **End:** 8/23/18 14:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

LIVING ROOM. MAIN FLOOR.

CANISTER ID: L5110

REGULATOR ID: A0334388-4

PRESSURE: START: -~~30~~ 27 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 28 **QC Code:** __ **Matrix:** Air **Tag ID:** 7917-28-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: (b) (6) [redacted] - SUB-SLAB

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	8/22/18	15:10
Longitude:	___ ___ ___	**End:**	8/23/18	14:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

BASEMENT

CANISTER ID: 3017

REGULATOR ID: A0295815-3

PRESSURE: START: -30 "Hg

STOP: -4 "Hg

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 29 **QC Code:** FB 8/24/18 **Matrix:** Air **Tag ID:** 7917-29-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: TRIP BLANK SAMPLE

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	8/23/18	15:00
Longitude:	___ ___ ___	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air Samples in Canisters at Ambient Levels by GC/MS

Sample Comments:

(N/A)

CANISTER ID: 3031

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 101 **QC Code:** __ **Matrix:** Water **Tag ID:** 7917-101-__

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: [redacted]

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 11:10
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
0 ~~1~~ - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
0 ~~1~~ - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
0 ~~1~~ - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
9 ~~2~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
9 ~~2~~ - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
2 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
2 ~~1~~ - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A) MS/MSD COLLECTED.

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 102 **QC Code:** FB 8/24/18 **Matrix:** Water **Tag ID:** 7917-102-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: FIELD BLANK SAMPLE

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	___ ___ ___	**Sample Collection: Start:**	8/23/18	12:30
Longitude:	___ ___ ___	**End:**	__/__/__	__:__

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
~~1~~ 2 - 1 Liter plastic bottle	5 mL of HNO3/L to pH<2	28	Days	1 Mercury in Water
1 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2	180	Days	1 Metals - Dissolved, in Water by ICP/MS
~~1~~ 2 - 1 Liter plastic bottle	Field Filtered, HNO3 to pH<2, 4 Deg C	28	Days	1 Mercury - Dissolved, in Water
1 - 1 Liter plastic bottle	HNO3 to pH<2	180	Days	1 Metals in Water by ICP/MS
~~1~~ 2 - 250mL amber glass	4 Deg C	7	Days	1 Pesticides and PCBs in Water by Twister GC/MS
1 - 40mL VOA vial	4 Deg C	7	Days	1 Acid Herbicides in Water by LCMSMS
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 VOCs in Water by GC/MS for Low Detection Limits
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14	Days	1 Volatile TPH in Water by GC/MS
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile TPH (DRO & ORO) in Water by GC/FID

Sample Comments:

(N/A)

Sample Collected By: TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7917 **Sample Number:** 104 **QC Code:** FB **Matrix:** Water **Tag ID:** 7917-104-FB

Project ID: MLB7C700 **Project Manager:** Melinda Luetke
Project Desc: Tanglefoot Lane
City: Bettendorf **State:** Iowa
Program: Superfund
Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Location Desc: Water LDL VOA/~~TPH VOA (GRO)~~ 8/24/18 Trip Blank

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 8/23/18 12:45
Longitude: ___ ___ ___ **End:** __/__/__ __:__

Laboratory Analyses:

# Container	Preservative	Holding Time	Analysis
3 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits
~~3 - 40mL VOA vial~~	~~4 Deg C, HCL to pH<2~~	~~14 Days~~	~~1 Volatile TPH in Water by GC/MS~~

Sample Comments:

Prepared by the LTAB. ONLY 3 - 40mL VOAS PROVIDED FOR TRIP BLANK.

No TPH VOA Trip Blank collected/Provided 8/24/18

Sample Collected By: TT