

ACME STEEL COKE PLANT
COOK COUNTY
CHICAGO, ILLINOIS
LPC#0316510001
SUPERFUND/ HRS
ILN000509241



CERCLA

Site Reassessment

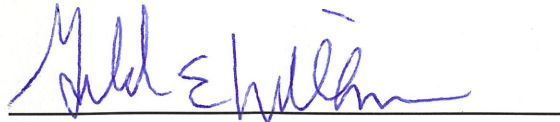


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**CERCLA
SITE REASSESSMENT**

for:

**Acme Steel Coke Plant
Chicago, Illinois
ILN000509241**

PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
OFFICE OF SITE EVALUATION

April 14, 2023

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1.0 INTRODUCTION

On March 28, 2018, the Illinois Environmental Protection Agency's (Illinois EPA) Office of Site Evaluation was tasked by the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Site Reassessment (SR) at the Acme Steel Coke Plant site in Chicago, Illinois. The Acme Steel Coke Plant site (CERCLIS ID# ILN000509241) is located in Cook County at 11236 South Torrence, Chicago, Illinois 60617. The site coordinates obtained at the facility's main gate are 41°41'28.605" latitude, 87°33'34.662" longitude and reside in the southeast quadrant of Section 13 and the northeast quadrant of Section 24 of Township 37 North, Range 10 East of the Third Principal Meridian.

The Site Reassessment is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund. Current U.S. EPA policy stipulates that a Site Reassessment be conducted to determine the status of the Acme Steel Coke Plant site. The Site Reassessment will consist of an evaluation of recent information and the collection of a small number of samples to determine if further Superfund investigations are warranted. The Site Reassessment will supplement previous work and is not intended to replace previous CERCLA assessments.

The Site Reassessment is designed to evaluate recent information that will help determine if the site qualifies for possible inclusion on the National Priorities List (NPL) or should receive a No Further Remedial Action Planned (NFRAP) designation. At the conclusion of the reassessment process, Illinois EPA will recommend that the site be given a NFRAP designation, receive further Superfund investigations, or be referred to another state or federal cleanup program.

The Acme Steel Coke Plant was placed on Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS, now known as Superfund Enterprise Management System or SEMS) in November 2004 in consideration of liquid waste material stored on-site in above ground tanks and solid waste scattered across the site. The site was assigned a high priority for Combined Assessment (CA) activities. The CA was conducted in 2005. In 2010 samples were collected at the site and in the surrounding area in support of an Expanded Site Inspection (ESI).

The Site Reassessment Report will describe current site conditions and illustrate how the site has changed since the last completed CERCLA investigation. This report will contain a summary of existing information that will include site history, current site conditions, evaluate historic analytical data as well as data from samples collected during this Site Reassessment. The Site Reassessment will also support emergency response or time-critical removal activities if they are warranted.

2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

The Acme Steel Coke Plant site is the location of a formerly active coking facility situated approximately 14 miles south of downtown Chicago, in Cook County Illinois. The Acme Steel Coke Plant, once known as “Chicago Coke Plant” was one of three facilities in the Chicago area owned and operated by Interlake, Inc. (Iron and Steel Division) (Klopke). The facility consists of approximately 104 acres. The heart of the facility, once consisting of process buildings and adjacent areas, comprises approximately 11 acres. The facility has been inactive since operations shut down in November of 2001. Figure 1 of this report shows the site’s location and the surrounding area.

The Calumet River and Lake Michigan are 0.3 miles and 2.83 miles east of the site, respectively. Immediately bordering the site to the west are tracks owned by Norfolk and Western Railroad and a 289-acre parcel owned primarily by Waste Management Incorporated (Illinois EPA, Interlake ESI; Cook County). The Waste Management Incorporated (WMI) property is listed on SEMS as “Interlake Property” ID#ILD000810432 (Illinois EPA, Interlake ESI). The Interlake Property consists of an inactive landfill and lagoon, Indian Treaty Creek, and Big Marsh (Illinois EPA, Interlake ESI). The U.S. Fish and Wildlife Service identified over 78 acres of the Interlake Property as wetlands in 2010¹. Big Marsh is located just 0.26 miles west of the Acme Steel facility. Lake Calumet is located further to the west, 0.83 miles from the

¹ As identified in the Geographic Information System layer 2010 National Wetlands Inventory (U.S. Fish and Wildlife)

facility. Indian Ridge Marsh North is located adjacent to the facility on the south side. The Lake Calumet Cluster Superfund site is located to the southwest of the Acme Steel facility (USEPA, Superfund Sites). The Lake Calumet Cluster (LCC) site is an 87-acre site including a group of land and waste storage and disposal facilities one known as US Drum, Auburn Incinerator, Unnamed Parcel, and a portion of Paxton Lagoons (USEPA, Superfund Sites). The area surrounding the site is highly industrialized although a residential neighborhood exists approximately 1000 feet north of the facility.

Topography at the Acme Steel Coke Plant site is primarily flat. Placement of waste material (coal fines/cinders) throughout portions of the site have created depressions and elevated areas causing surface water run-off to flow in multiple directions depending on the vicinity of the site. The west portion of the site appears to be the lowest in elevation as is evidenced by water-loving vegetation and standing water. Waste materials were also used to create a series of berms and water-filled ditches on the west and south of the site. Surface water appears to remain on the site throughout the year in three areas: the settling basin on the southeast corner of the property; a ponded area on the northwest corner of the property; and, the remains of a perennial waterway that previously flowed through the west-central portion of the property. Surface water run-off from small portions of the facility drain to the east and south. Acme installed a French drain system along portions of the eastern boundary of the facility in order to collect surface water run-off and shallow groundwater prior to leaving the site on the east (Holmberg, Personal). Historically, during heavy rainfall events, surface water run-off flowed off the site to the east and onto Torrence Avenue (Sulski). A United States Geological Survey topographic map from 1991 shows a perennial waterway originating on the west central portion of Acme and flowing south, southwest off-site and ultimately connecting with Indian Ridge Marsh. Figure 2 of this report provides an aerial photograph of the facility and surrounding areas from 2005.

In 2006, on behalf of the Chicago Department of the Environment, V3 Companies, LTD published a report entitled "The Calumet Hydrologic Master Plan". The report compiled hydrology information on multiple water bodies and adjacent parcels in the Calumet area. Among the comprehensive information on surface water drainage in many area in the region, the report included information on hydrology at the Acme Steel Coke Plant as it relates to Big Marsh, Indian Ridge Marsh, and the LCC site properties (located adjacent to the southwest of

the site. The report identified two water control structures draining surface water from Acme onto adjacent properties. (Appendix A to this report contains portions of the Calumet Hydrologic Master Plan related to the site.) A 12-inch diameter culvert drains the southwest portion of the site westward beneath the railroad tracks into surface water located at Big Marsh and associated with wetlands. Likewise, a 36-inch culvert was identified that drains the southwest corner of the Coke Plant southward under 116th Street into Indian Ridge Marsh and associated wetlands.

Investigations conducted at the Lake Calumet Cluster site documented the hydraulic connection between LCC facilities located west of the railroad tracks and Indian Ridge Marsh (Illinois EPA, Addendum). During a field event conducted in 2004 (in preparation for the potential listing of the LCC site), a culvert was identified approximately 1300 feet south of 116th Street that drained surface water that was pooling in ditches on the west side of the tracks into the Marsh located on the east side of the tracks (Illinois EPA, Addendum). Laboratory results from the 2004 sampling indicated that concentrations of various semi volatiles from the LCC site had an observed impact on the southern portions of the marsh (Illinois EPA, Addendum). Concentrations of semi volatile compounds attributable to the LCC site in Indian Ridge Marsh are discussed further in Section 5.2.2.2 of this report.

Vegetation on the site in areas adjacent to process buildings is sparse, most likely due to the large amount of fill material made up of cinders and gravel along with some tar and slag. Short grasses are spread thinly on the south and southwest portions of the site, surviving despite waste materials spread throughout the area. On the extreme western portion of the site, Phragmites is growing well despite the presence of waste materials. Several species of waterfowl are found in the area surrounding the site including egrets, ducks, shore birds, gulls and herons (Illinois EPA, Interlake ESI). The surface of the approximately 104-acre site is almost entirely black due to the presence of waste used as fill material. In many areas the coal fines/cinders placed on the ground had black oil stains with a strong hydrocarbon odor. Coal tar was present at the surface in the area southwest of the process buildings. Other areas, specifically south, southwest of the light oil building also had tar bubbling to the surface.

Approximately four intact buildings remain on-site. Trespassers can access the site by foot through a few holes cut into a relatively intact, 6-foot hurricane fence that surrounds the

property. The site can be accessed through the front gate off Torrence Avenue with a key to the lock.

A study of the geology of the area was conducted on behalf of USEPA with the findings included in the 1990 report entitled: Lake Calumet Area Ground-Water Quality Investigation and Monitoring Program Design for the Lake Calumet Area of Southeast Chicago.

In the 1990 report, area unconsolidated deposits are described as Lemont Till and Wadsworth Till, overlain by the deposits of glacial Lake Chicago (Equality Formation). The Equality Formation is comprised of silt, clay, and discontinuous spits and bars of sand (the Dolton Member). The Wadsworth Till Member underlies the Equality Formation and is comprised of poorly sorted gray silty clay. The Lemont Till underlies the Wadsworth Till and is comprised of a poorly sorted sediment containing primarily silt, as well as sand and gravel. Except for the sand lenses in the Dolton Member, the till units are relatively impermeable. Bedrock in the area consists of Silurian Age Dolomite. The unconsolidated deposits in the Lake Calumet Area are on average, about 75 feet thick. (Cravens and Zahn)

The depth to bedrock identified at the Interlake site immediately to the west, ranged from “30 feet below ground surface in the northeast corner of the site to 100 feet below ground surface in the southeast corner of the site (Illinois EPA, Interlake ESI)”.

Groundwater use was researched by the Lake Calumet Area Ground-Water Quality Investigation in a 39-square-mile area surrounding Lake Calumet (which includes the Acme site). Almost all of the water use in the area and surrounding region is supplied by surface water from Lake Michigan (Cravens and Zahn). Records of only 80 well records finished in the Silurian aquifer were identified in the area, 47 of which were established for industrial/commercial purposes (Cravens and Zahn). As of 1990, only 30 wells were known to be actively pumping from the Silurian Aquifer within the 39-square-mile area with approximately 6 being used domestically (Cravens and Zahn). Two wells were identified by Cravens and Zahn that utilized groundwater from the shallow unconsolidated deposits in the area.

The well database of the Illinois State Geological Survey (ISGS) was queried to identify wells within 2 miles of the Acme Steel Coke Plant site. Two water-well records were identified on-site, registered to “Coke Oven Plant” and apparently located in the north-central portion of the site. Both wells were reported to be finished at depths greater than 1000 feet below ground surface. A total of 15 well records were identified within 2 miles of the site, with all 15 wells

having a recorded use of “commercial/industrial”. The finished depth of the 15 wells within 2 miles of the site ranged from 145 to 1715 feet below ground surface. Three of the 15 well records were located within one-half mile of the site. The ISGS database does not indicate as to whether or not the wells are still active. (ISGS, Well Database)

“Under natural conditions, ground-water flow within the Silurian dolomite aquifer underlying the region [southern Cook County] is towards the southeast, following the regional dip of the Silurian formations (Cravens and Zahn).” The flow direction of ground water in the unconsolidated deposits of the Lake Calumet area are connected to surface waters, streams rivers, lakes, and wetlands (Craven and Zahn). However, Craven and Zahn note that the shallow ground water flow has been highly altered from its original state due to the large amount of fill material brought into the area. Groundwater flow direction in the unconsolidated aquifer beneath the site is unknown, however studies performed at the Interlake property note that flow direction is generally to the southwest (Illinois EPA, Interlake ESI).

Shallow groundwater flow from properties with greater elevation is suspected to flow into the Indian Ridge Marsh (Roadcap, et al). “Ground-water flow into Indian Ridge Marsh was directly observed on January 19, 1999” when a spring was observed in the northeast corner of the north pool of the marsh (Roadcap, et al). The study hypothesized that due to its elevation, groundwater flow from the LCC site was impacting the marsh (Roadcap, et al). Although the hypothesis was specifically applied to the LCC site, the ACME Steel Coke Plant is also higher in elevation than the marsh, and it is closer to the observed spring than the LCC site.

2.2 Site History

In the late 1800s and early 1900s, the company that later became known as the “Acme Steel Coke Plant” was one of several industrial facilities constructed in the area surrounding the Calumet River in response to available land and transportation (land, rail, and water) opportunities (NEIU, Chicago’s). The coke plant located on Chicago’s south side was incorporated as the By-Product Corporation in June 1905 (NEIU, South Deering). As of 1911, the By-Product Corporation was well established at the property, with 8 blocks of coke ovens, a by-product processing building, light oil building, product storage tanks, and an extensive on-site network of rail-lines (Sanborn 1911). In December of 1929, the name of the company was changed from By-Product Corporation to Interlake Iron Corporation (NEIU, South Deering). A

Sanborn Fire Insurance map from 1946 indicates that the Interlake Iron Coke Oven Plant had expanded to include most of the buildings/tanks present when the facility began to shut down its operations in October of 2001 (Sanborn 1946; Holmberg, Personal). “In 1964, Acme Steel Company and the Interlake Iron Company merged, combining Interlake’s extensive mining, iron, and coke production facilities with Acme’s steel producing and finished product capabilities (NEIU, South Deering).”

The Electronic Encyclopedia of Chicago provided the following corporate history for the Acme Steel Company, prior to its merger with Interlake and acquisition of the coke plant.

The Acme Steel Company originated in Chicago as Acme Flexible Clasp Co. founded in 1884 (Wilson et al.). In 1899 Acme Flexible Clasp Co. merged with Quincy Hardware Manufacturing and the new company changed its name to Acme Steel Goods Co. in 1907 (Wilson et al.). In 1925, the company became the Acme Steel Company (Wilson et al.).

The coke plant, once known as “Chicago Coke Plant” was one of three facilities in the Chicago area owned and operated by Interlake, Inc. (Iron and Steel Division) (Klopke). As mentioned previously, the three Interlake facilities worked together to produce coke which was in turn used to produce molten iron, which was then used to produce steel (Klopke). Interlake also owned property west of the coke plant and west of Norfolk and Southern Railroad Tracks. During Interlake ownership tenure, waste material from the coking process was placed both on the coking facility itself, as well as on Interlake property west of the railroad tracks.

Coke was produced at the site through destructive distillation (“coking”) of coal in coke ovens without the presence of air. The coking process occurred in a coke oven battery (where multiple ovens are operated together). Gases produced during the coking process called “foul” gas² were collected and treated on-site through a multi-step process prior to being re-introduced into the coking process as fuel. Tar removed from the foul gas was mixed with coal on-site and also reintroduced into the coking process as fuel.

² Foul gas contains water vapor, tar, light oils, solid particulate of coal dust, heavy hydrocarbons, and complex carbon compounds. [Gaseous products from the distillation of coal consist of hydrogen, methane, ethylene, carbon monoxide, carbon dioxide, hydrogen sulfide, ammonia, and nitrogen. Liquid products from the distillation of coal include water, tar and crude light oil.] (USEPA, AP-42).

In 1986, Interlake Steel Corporation reorganized and as a result, a newly formed Acme Steel Company took over the coke and steel making facilities in the Chicago area (NEIU, South Deering). Acme Steel struggled to remain profitable and by the end of the 1990s, the number of employees dropped to approximately 1,200, down from approximately 3,500 in the mid-1970s (Wilson et al.). The coke plant began to shut down its operations in October of 2001 (Holmberg, Personal). Sal-Recon, a metal salvage and recycling company began to dismantle the coke plant following shutdown.

In October of 2002, "International Steel Group (ISG) purchased a portion of the assets of Acme Steel from bankruptcy" (USEPA, Acme Chicago). Following the bankruptcy proceedings, "an order of abandonment was issued for the unsold assets of Acme Metals including, apparently, the Chicago Coke Plant" (USEPA, Acme Chicago). Soon after, Vandals and metal scrappers cut the locks at the main gate and cut holes in the fence at multiple locations to enter the facility illegally. Trespassers destroyed building materials and pipe insulation inside various buildings releasing asbestos in and around the heart of the facility. Transformers made of copper tubing and oil containing polychlorinated biphenyls (PCBs) were also destroyed releasing the contaminant onto the soil in the vicinity of the units. In 2004, Salrecon acquired an ownership interest in the structures and fixtures at the site through Acme bankruptcy proceedings and began to salvage scrap salvage operations on-site.

In 2005, U.S. EPA initiated a time-critical removal action at the site with site investigation and waste characterization activities. In 2006, U.S. EPA and its contractors began removal of PCB-oil and soil containing PCBs, along with oil (free of PCBs) from various tanks located on-site. on May 29, 2007 the removal activities concluded with the final shipment off-site of 110 tons of non-hazardous solidified tank residuals and empty containers.

In the years following the removal activity, the remaining buildings on-site have continued to fall into disrepair and in many cases, crumble to the ground. Outside parties have considered the using the slag and other waste materials on-site for additional metals recovery and one entity considered creating a steel industry museum on-site. Plans never materialized. In 2020 the Cook County Land Bank Authority acquired the 36 acre-parcel comprising the southern one-third of the former Acme facility. In late 2021, the SunPower Corporation was negotiating a lease and attempting to secure funding to develop a 20-acre solar array on the parcel. The lease agreement and solar project ultimately fell through although it may again be pursued at a later date. The northern 61-acre parcel remains abandoned and in open tax-delinquent status

held by Cook County (Cook County Clerk). As such, the entire 100-acre facility sits unused except for the occasional trespasser and various wildlife

2.2.1 CERCLA Investigations History

The Acme Steel Coke plant was placed into SEMS in November of 2004 following a site visit conducted by U.S. EPA Region 5 staff and representative from the City of Chicago. During this inspection hazardous wastes were identified in tanks and containers throughout the site and friable asbestos was recognized in multiple buildings.

2.2.1.1 Combined Assessment

In 2005 Illinois EPA conducted a Combined Preliminary Assessment/Site Inspection Assessment (CA) at the site. During the investigation, Illinois EPA collected 16 shallow waste samples and five (5) ground water samples from on-site locations. Additionally, sediment samples were collected from two places on-site and two locations where drainage flowed off the facility. Samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), Total Metals, and Pesticides/PCBs. Laboratory results for waste samples identified concentrations of several compounds (primarily semi-volatile compounds) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene) at concentrations significantly above U.S. EPA removal management levels (RMLs) for industrial properties. Groundwater samples collected at the facility showed benzene concentrations greater than maximum contaminant level. Analytical results from sediment samples collected on-site and from the probable point of entry (the Semet-Solvay slip) identified 12 semi-volatile compounds present in each sample at concentrations three-times background. Figure 3 of this report identifies sample locations from the Combined Assessment.

Information obtained during the CA identified three primary and separate sources(s) of contamination at the Acme Steel Coke Plant. Contaminants of concern within each source were primarily SVOCs which were present at concentrations greater than U.S. EPA RMLs for industrial properties. Aerial photographs confirmed by field evaluation and laboratory analysis results were used to determine the total area of each source. Sources are discussed in greater detail in the following section, Section 2.2.1.1.

2.2.1.2 Expanded Site Inspection Sampling

In 2010, Illinois EPA conducted field work for a CERCLA Expanded Site Inspection but did not complete the report. Five additional waste samples (X316 – X320) were collected from the onsite trench that drained the facility and emptied into the Semet-Solvay vessel slip located northeast of the site. Twelve sediment samples (X208 – X219) were collected from within the slip and the Calumet River to evaluate the impact from the discharge from the site had on nearby surface water. Lastly, an additional ten waste samples (X321 – X330) were collected on-site to further determine the extent of waste spread throughout the facility. Figure 4 of this report identifies the ESI sample locations on an aerial photograph from 2011. Table 1 of this report provides sample descriptions and associated information about each sample collected during the Expanded Site Inspection.

Samples were collected were shipped off-site for laboratory analysis for VOCs, SVOCs, total metals, and Pesticide/PCBs. Sample results across all media were insignificant for metals, and pesticides. Three waste samples collected at the facility contained either mercury or cyanide at concentrations exceeding U.S. EPA RMLs. Mercury exceeded RMLs in samples X317, X318 and X329. Cyanide exceeded RMLs in samples X317 and X318. Samples X317 and X318 were collected from the on-site trench and X329 was a surface waste sample collected in the southeast portion of the site. Laboratory analysis results for PCBs were largely below the level of detection or less than one ppb, if detected; sample X320 collected from the bottom of the on-site trench contained 0.18 ppm Arochlor-1260 which was the greatest concentration for a single congener amongst all the waste and sediment samples. Background sediment samples X210, X211 and X212 had positive detections for PCB congeners, again at concentrations less than 1 ppm. Two sediment release samples had positive detections for PCB congeners less than 1 ppm and did not meet observed release criteria. Tables 2 - 5 of this report display the laboratory results for samples collected during the ESI sampling.

Laboratory results for samples collected during the ESI again showed SVOCs to be the class of compounds present most often at either concentrations greater than RMLs (for on-site waste) or at three-times background (for sediments). Laboratory results for waste samples from the surface of the site identified concentrations of benzo(a)pyrene, dibenzo(a,h)anthracene, and naphthalene at concentrations greater than RMLs for industrial properties. Benzo(a)pyrene was detected at concentrations greater than its RML at waste sample X323 located on the eastern edge of the facility north of the former holding tank area. Sample X330 also contained

benzo(a)pyrene at concentrations greater than its RML along with dibenzo(a,h)anthracene, and naphthalene. Sample X330 was collected in the south-central portion of the facility.

Laboratory results for SVOCs collected from both the on-site trench (waste) and sediments from the slip and the Calumet River are believed to support the site's conceptual model that the on-site trench discharged wastes from on-site into the river. Eight sediment samples collected from the slip and the river were considered to be release samples. The semi-volatile compounds (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, naphthalene, and indeno(1,2,3-c,d)pyrene) were detected in at least half of the sediment samples at concentrations meeting observed release criteria. These same compounds were detected at significant concentrations in all five of the waste samples collected from the on-site trench. Figures 5 and 6 of this report graphically display concentrations of four semi-volatile compounds identified during the ESI sampling event both on the Acme Steel property and in sediments in the slip and river.

Information obtained during the ESI generally supported the three sources(s) of contamination identified at the Acme Steel Coke Plant during the CA. The sources identified during the CA were the "Tar Impoundment", "French Drain and Discharge Line", and the "Process Waste Pile". Information was identified during the ESI that stated that the discharge line from the French Drain at the facility was collected in a sump and did not discharge to the slip (Holmberg, Telephone). As such, the size of this source was reduced significantly, and it is referred to as the "French Drain and Sump" herein. A fourth source, identified as "Facility Trench and Discharge Line" was identified during the ESI. Regarding the sources "Tar Impoundment", "French Drain and Sump", and the "Process Waste Pile" the conceptual understanding of the contaminants of concern within each source were primarily SVOCs which were present at concentrations significantly above U.S. EPA RMLs for industrial properties. Those same contaminants are present in the fourth source "Facility Trench and Discharge Line" but at lesser concentrations. A combination of aerial photographs, field evaluation, facility maps, and laboratory analysis results were used to determine the total area of each source. The areas encompassed by the "Tar Impoundment" and the "Process Waste Pile" were calculated as 0.4 acres and 51.4 acres, respectively. The "French Drain and Sump" source was determined to be 496 feet long, 3 feet wide, and was filled with an undetermined amount of tarry waste material. Finally, the "Facility Trench and Discharge Line" source was determined to be 3026 feet long, 3 feet wide, and was filled with an undetermined amount of slag, cinders, and organic liquid with

coal tar odor. Figure 7 of this report shows the HRS sources (and associated samples) identified during the investigation.

3.0 OTHER CLEANUP AUTHORITIES AND ACTIONS

During its years of operation, the facility was regulated by the Illinois EPA under delegated programs regarding the Clean Water Act (National Pollutant Discharge and Elimination System [NPDES]), Clean Air Act (National Emission Standards for Hazardous Air Pollutants [NESHAPs]), and Resource Conservation and Recovery Act (as a large quantity generator). The facility also discharged sewer and facility waste to Chicago's Metropolitan Water Reclamation District (MWRD). Additionally, the facility also had transformers on-site that were known to contain PCBs and was regulated under the Toxic Substances Control Act (TSCA).

The facility was cited often regarding discharges in excess of its NPDES permit. In the late 1970s Illinois EPA was preparing for enforcement action against Interlake (Acme's predecessor) for concentrations of cyanide, total iron, phenols, ammonia nitrogen, suspended solids in its effluent discharges but the case was dismissed in favor of assurances to control both storm water run-off and concentrations of key parameters in point source discharges.

Correspondence from the 1990s indicates that the City of Chicago believed that solids entrained in Acme's discharges to the Metropolitan Water Reclamation District was restricting flow through its system. No record of fines imposed or paid were identified.

The facility reported numerous air releases (most often coke oven gas or benzene) due to equipment shutdown or outages. State inspections occasionally resulted in warning letters for discharge of regulated air emission criteria pollutants (carbon monoxide, nitrogen dioxide, particulates, sulfur dioxide, and VOCs) and hazardous air pollutants. There is no record of fines or penalties being assessed.

Minor RCRA violations cited at the facility following Illinois EPA inspections through 1980s and early 1990s. The violations often related to manner and length of on-site storage of coke by-products intended for recycling back into the coke making process. The company was fined over \$1,500,000 by the United States Environmental Protection Agency (USEPA) in 1999 for multiple RCRA violations largely involving on-site land disposal of coke by-products. The case

was settled for \$15,000 and funds were placed in the general treasury. No state records regarding financial assurances were identified.

In 2005 Illinois EPA referred the site to U.S. EPA for a Time Critical Removal Action. Beginning in October 2005 and continuing through May of 2007, U.S. EPA reported the following accomplishments under its removal action:

- Several sections of the perimeter fence were repaired along with the main gate
- Oil with high levels of PCBs was emptied from a large transformer damaged by scrappers. Drums containing the oil along with the transformer carcass were transported off-site for disposal.
- PCB contaminated soil at the location of the damaged transformer was excavated down to PCB concentrations below 1 part per million and transported off-site for disposal.
- Oil-contaminated soils in the Powerhouse Building were excavated and prepared for off-site disposal
- Miscellaneous materials found in drums and containers throughout the site including oil, ignitable, corrosive, and toxic waste streams were overpacked and transported off-site for disposal.
- All asbestos containing material from the site was removed from buildings and piping
- Approximately 110 tons of non-hazardous tank and container residuals were transported off-site for disposal.

Information currently available does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), or the Federal Insecticide Fungicide or Rodenticide Act (FIFRA). The site has not undergone any remediation or been enrolled in Illinois EPA's voluntary Site Remediation Program (SRP). A private entity recently considered remediation on approximately 20 of the 36 acres owned by the Cook County Land Bank Authority prior to placement of a solar array but the deal was never finalized.

3.1 Lake Calumet Cluster Site

As discussed in Section 2.1 of this report, the LCC site is immediately to the southwest of the ACME Steel facility. In 2010, the LCC site was placed on the National Priorities List (USEPA, Superfund Sites). Investigation and remediation activities associated with the LCC site are relevant to ACME Steel Coke Plant due to proximity, and also due to the shared connection of both sites to the Indian Ridge Marsh. As mentioned previously, in 2004, a culvert was identified south of 116th Street that drained surface water from the west side of the railroad tracks into the Marsh located on the east side (Illinois EPA, Addendum).

In 2015, U.S. EPA's contractor began fieldwork associated with the Remedial Investigation (RI) of the LCC site. Fieldwork conducted during the RI focused on groundwater. However, past

studies involving surface water and sediment sampling were taken into consideration. Data tables and figures in the draft report show semi volatile contamination throughout the north pool of the Indian Ridge Marsh including the vicinity immediately south of the culvert transferring surface water run-off from the ACME Steel Coke in the marsh. (ARCADIS)

4.0 SITE REASSESSMENT FIELD ACTIVITIES

On October 22 and 23, 2018 Illinois EPA conducted the field activities associated with the Site Reassessment slated for the 2018/2019 CERCLA Site Assessment Cooperative Agreement Cycle. Objectives of the reassessment included:

- 1) Evaluate off-site migration by way of ditches and culverts to the west and south of the site**
 - (i) Sample background locations along with release points along the ditch west of the facility
- 2) Evaluate off-site migration by way of impacts to the wetlands south of the site**
 - (i) Collect sediment samples within the Indian Ridge Marsh
- 3) Confirm the presence of waste material on-site**

4.1 Sampling Activities

Samples were primarily collected “on-foot” during the Reassessment using a stainless-steel auger and stainless-steel trowel. In several cases when either the sediment or waste could be easily accessed, a stainless-steel trowel was used for sampling without the use of the auger. Samples collected in the main portion of Indian Ridge Marsh were collected from a manually powered aluminum boat. Table 6 of this report provides descriptions and additional information for samples collected during the SR. The locations of samples collected during the SR were marked using a Global Positioning System (GPS) unit and are shown of Figure 8 of this report.

4.1.1 Sediment Samples

Illinois EPA began collection of sediment samples from Indian Ridge Marsh east of the railroad tracks and approximately 1,500 feet south of 116th Street. Sediment samples X221 and X222 were collected from the freshwater emergent wetland located in the Indian Ridge Marsh³. Sample X221 was located the farthest downgradient, approximately 1,400 feet south of the culvert draining the southwest corner of the Coke Plant. Sample X222 was located

³ As identified in the Geographic Information System layer 2010 National Wetlands Inventory (U.S. Fish and Wildlife)

approximately 630 feet south of the culvert draining the Coke Plant. Both samples were collected from an aluminum boat using a stainless-steel auger.

Following collection of sediment samples from Indian Ridge Marsh, the boat was set aside, and the remainder of the SR samples were collected on-foot using a stainless-steel auger and/or a stainless steel trowel. Sediment sample X223 was collected approximately 8 feet south of the culvert pipe running southward under 116th Street. The sample was intended to represent impacts from the Acme Steel facility in the drainageway leading into the Indian Ridge Marsh. Sample X223 is approximately 150 feet north of the freshwater emergent wetland as mapped by but U.S. Department of Fish and Wildlife however wetland vegetation was growing within several feet of sample location.

Beginning with sample X224 and continuing through X228, samples were characterized as sediments and discussed within this section as such. However, these samples were collected from ditches or low-lying areas with only intermittent surface water flow and would therefore be characterized as soil and represent overland flow under HRS. Sample X224 was collected from the east side of the ditch on the north side of the culvert flowing under 116th Street and into Indian Ridge Marsh. Surface water runoff and drainage from Coke Plant would flow through this ditch and into the culvert.

Samples X225 and X226 were collected along the ditch running north and south along the western border of the Coke Plant property. Surface water runoff from the facility would be captured by this ditch and directed both southward and westward; surface water from the ditch would flow south to the Indian Ridge Marsh through the culvert under 116th street and west into drainageways associated with Big Marsh by way of a culvert beneath the railroad tracks. Sample X225 was collected from inside of the pipe draining the ditch immediately west of the facility. Water flowing through this point would flow under the tracks and into surface water drainage connected to Big Marsh. Wetland species line the drainageway on the west side of the tracks where the pipe discharges. The eastern end of the culvert and sample location X225 are located on the southern half of the site, approximately 1000 feet north of the southwestern corner of the facility. Sample X226 was collected from a low-lying area west of the fence running along the western edge of the facility. No observable ditch was found here but the elevation of the area indicates that surface water run-off from the facility would collect here prior to flowing southward along the north/south ditch which is more pronounced nearby.

Sample X227 was collected at the northwestern corner of the Coke Plant within the surface water drainage route flowing southward along the property's western edge. Sample X227 was intended to represent conditions within the drainage route prior to impacts from the facility. Sample collected from low-lying area west of the facility fence and approximately 60 feet east of the railroad tracks. The drainage ditch present on the western edge of the facility toward the south was not discernable at the location where X227 was collected. However, the land still sloped southward from sample location X227 and would flow southward through the ditch and ultimately off-site either to Indian Ridge Marsh or Big Marsh.

Sample X228 was collected from low-lying area north of the Coke Plant's northern boundary within the surface water drainage route flowing southward along the property's western edge. Sample X228 was intended to represent background conditions. Sample collected from low-lying area on the western edge of the wetland located north of the site that appears to drain southward.

4.1.2 Waste Samples

Waste samples were collected during the Reassessment from three locations known to have elevated concentrations of site-related constituents. The samples were intended to confirm that conditions in these locations had not changed significantly since the last CERCLA investigation. Sample X331 was collected in west-central portion of site at the beginning of drainageway that once flowed south and then off-site into Indian Ridge Marsh. Surface water was present in much of the immediate area surrounding the sample location. Phragmites was prevalent growing out of slag fines and cinders mixed with native soils.

Waste sample X332 was collected in south-central portion of site where high concentrations of SVOCs were identified in previous sampling events. Surface of site in the area surrounding the sample location was covered with tar spots, slag pieces and associated fines. This area, once devoid of vegetation entirely now covered with stressed thin grass an occasional scrub tree.

Waste sample X333 was collected in the eastern portion of the facility just south of the area where most of the industrial processes involved in coke production, refining, and storage took place. Sample X333 was collected approximately 15' south of a historic tank location near the eastern edge of the facility. As with sample location X332, vegetation had become more prevalent in the area of X333 which was also once void of any such growth.

4.2 Analytical Results

Following the sampling activities, samples were packaged in accordance with procedures outlined in Illinois EPA's Multi-Site CERCLA Quality Assurance Project Plan and shipped offsite for analysis to laboratories selected by U.S. EPA under the Contract Laboratory Program. Samples scheduled for organic analysis were shipped to Shealy Environmental Services in South Carolina while samples slated for inorganic analysis went to Bonner Analytical Testing Services in Mississippi. All samples collected during the Reassessment were scheduled for Target Analyte List and Target Compound List constituents including Volatile Organic Compounds, Semi-volatile Organic Compounds, Pesticide and PCBs, and Total Metals.

4.2.1 Sediment Samples

Analytical results for all samples other than waste are discussed within Section 4 of this report collectively as "sediment samples". However, as mentioned previously, only samples identified as X221, X222, and X223 would represent true sediment samples as associated with either a wetland or a perennial waterway as defined in HRS. Sample analysis results for sediments (and those characterized as soils under HRS) collected during the reassessment identified contaminants of concerns that correlated well with past investigations: inorganic, volatile, and pesticide/PCB compounds were found only occasionally at concentrations meeting observed release criteria (3 times background) while semi volatile compounds met the criteria very often. Chromium, zinc, and mercury were detected most often at concentrations meeting observed release criteria, in two of eight samples. Pesticides were not historically identified as a contaminant of concern based on processes at the facility. However, two pesticides, 4,4'-DDT, and methoxychlor were identified concentrations meeting observed release criteria in at least five of seven sediment samples. Polychlorinated biphenyls were identified in two of seven release samples at concentrations meeting observed release criteria. Tables 7 – 10 of this report display the laboratory results for samples collected during the Reassessment.

Laboratory results for samples collected during the Reassessment again showed SVOCs to be the class of compounds present most often on or near the Coke Plant at concentrations greater than three-times background. Concentrations of SVOC meeting observed release criteria were identified in every release sample collected. Sediment sample X223 collected from the ditch just south of the culvert leading into Indian Ridge Marsh contained the greatest number (15) of SVOC compounds at concentrations meeting observed release criteria. Samples X225, X226 and X227 were collected west of the facility in the north-south ditch and each contained 14

SVOC compounds meeting observed release criteria. Both sediment samples X221 and X222 collected from the wetland in Indian Ridge Marsh had SVOCs at concentrations meeting observed release criteria. Sample X221 had nine SVOC compounds at concentrations meeting observed release criteria while X222 contained ten compounds meeting the criteria.

In consideration of the laboratory results for all of the sediment (and soil) release samples, the semi-volatile compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-c,d)pyrene, and pyrene were detected most often, in all seven of the sediment release samples. In general, the highest concentrations of most of the SVOCs was identified in sample X225 which was collected in the southwest region of the site from the north-south ditch on the Coke Plant's western border. Surface water would flow through this area both on its way south to Indian Ridge Marsh, and to the west under the railroad tracks to the Big Marsh watershed.

4.2.2 Waste Samples

Laboratory analysis results for waste samples collected during the reassessment identified contaminants of concern similar to past investigations. Inorganic waste samples were unremarkable and with the exception of cyanide and mercury in sample X333, were similar to sediment background concentrations. Likewise, VOC and Pest/PCB laboratory analysis results were similar to that of sediment background concentrations.

Concentrations of SVOCs in waste samples were generally one to two-times magnitude of those found in the sediment release samples. Waste sample X331, collected in the west-central portion of the site (near the beginning of the surface water drainage route to the south) contained the greatest concentrations of SVOCs. In consideration of SVOC compounds meeting observed release criteria in sediments, fluoranthene was identified at the greatest concentration, at 110,000 ppm. The average concentration of SVOC compounds in X331 that met observed release criteria in sediments was 323 ppm. Tables 7 – 10 of this report display the laboratory results for waste samples collected during the Reassessment.

5.0 SOURCE DISCUSSION AND PATHWAY ANALYSIS

5.1 Source Summary

This section includes descriptions of the various hazardous waste sources that have been identified at the Acme Steel Coke Plant. The Hazard Ranking System defines a “source” as: “Any area where a hazardous substance has been stored, disposed or placed, plus those soils that have become contaminated from migration of hazardous substance.” This does not include surface water or sediments below surface water that has become contaminated.

Information obtained during the CA and ESI identified the Tar Impoundment, French Drain and Sump, Facility Trench and Discharge Line, and a Process Waste Pile as four primary and separate sources(s) of contamination at the Acme Steel Coke Plant. Figure 7 of this report shows the sources of contamination.

5.1.1 Tar Impoundment

The Tar Impoundment source is a surface impoundment that contained what appeared to be coal tar and potentially some other coke plant by-products at the time of CA field operations. The Tar impoundment was visible in aerial photographs beginning in 1986 and the size and shape remained the same until the time of the ESI in 2010. The waste material in the Tar Impoundment looked and smelled very similar to coal tar.

Waste sample X307 was collected from near the center of the impoundment during the CA. Significant quantities of benzene and several semi-volatile organic compounds were identified through laboratory analysis of sample X307. Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were all greater than U.S. EPA Removal Action Levels. A global positioning system was used to delineate the perimeter and area of the tarry material. Based on the GPS data, the perimeter of the Tar Impoundment was determined to be 303.8 meters, and the area covered by the impoundment (as determined by the presence of tar) was 17,228 square feet, or 0.40 acres.

5.1.2 French Drain and Sump

The French Drain and Sump source is considered as an “other” source type in accordance with HRS (USEPA, Guidance). The French Drain and Sump source is the known extent of the buried

French Drain system. Historical information about the facility indicated that French drain was directed into a sump that was pumped from time to time. No information is available regarding disposal of the waste from the sump or exactly where the sump was/is physically located. When the plant was in operation the French Drain collected surface water run-off, shallow groundwater infiltration, and potentially piping from manholes inside process building and in the general areas outside of the buildings.

Sample X302 was obtained from one of the “clean-out” riser pipes from the French Drain system during the CA. Contaminant concentrations observed in the French Drain as represented by X302 contain elevated concentrations (greater than RALs for industrial soils) for benzo(a)pyrene. The “French Drain and Sump” source was determined to be 496 feet long and 3 feet wide.

5.1.3 Process Waste Pile

The Process Waste Pile source is a considered to be chemical waste pile for the purposes of HRS scoring. The Process Waste Pile source is characterized by coal fines, cinders and varying percentages of coal tar or other unidentified process wastes along with small percentages of other fill material such as limestone gravel or brick shards. The Process Waste Pile was placed throughout the facility presumably to fill in low-lying areas, to control surface water run-off, and possibly to control growth of vegetation surrounding the facility. The depth of the Process Waste Pile varies throughout the site as characterized by Geoprobe locations during the CA. The depth of fill material was determined to be at least 8 feet deep in all five Geoprobe locations and identified as deep as 11 feet below ground surface at the location identified as G105.

The extent of Process Waste Pile materials can be identified visually, as throughout most of the facility. However, to be conservative, the extent of Process Waste Pile is defined for the purposes of HRS scoring by samples with similar physical descriptions and the presence of the same contaminants. The samples which share physical and chemical characteristics can be connected by straight lines to determine the lateral extent of contamination. Samples X301, X304, X306, X308, X309 collected during the CA were connected using straight lines to define the lateral extent of the Process Waste Pile. The area encompassed by the Process Waste Pile is 2,238,984 square feet, or 51.4 acres as determined by desktop GIS.

Laboratory results for samples X301, X304, X306, X308, X309 are similar. Although the samples contain varying degrees of contamination, they share similar constituents. The presence of

several contaminants including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene (some at concentrations greater than USEPA RALs) link the samples and areas in-between as one contiguous source.

5.1.4 Facility Trench and Discharge Line

The Facility Trench and Discharge Line source is considered as an “other” source type in accordance with HRS. The trench was identified visually during both the CA and ESI investigations. The source is a combination of brick and concrete-lined trenches and an underground network of pipes conveying storm water, non-contact cooling water, and other process waters through Outfall #3 and into the Semet-Solvay slip. Facility plan maps of the trench system were geo-rectified using desktop GIS and uploaded to GPS for use in the field during the ESI. Field staff verified the trench and piping locations as presented on the plan map.

During the CA, the northern portion of the trench system along with the discharge line leading into the Semet Solvay Slip was investigated. Sample X206 obtained from the open trench just west of Light Oil process building and sample X205 obtained from Outfall#3 represent waste material prior to being directed underneath South Torrence Avenue and in a northeast direction towards the Semet-Solvay Slip. (At the slip, the wastewater is released into the environment through a large-diameter metal pipe.) During the ESI, waste samples X316 – X320 were collected from the bottom of the trench throughout the central portion of the facility.

Waste materials from the trench were consistent among all the samples and described as black slag, cinders, and organic liquid with a coal tar odor. Contaminant concentrations observed in the Trench and Discharge Line as represented by sediment/waste samples X206, X207, X316, X317, X318, X319, and X320 contain elevated concentrations for many of the same contaminants including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene. As determined by field observations and desktop GIS, Facility Trench and Discharge Line source was determined to be 3026 feet long and approximately 3 feet wide throughout the facility.

5.2 Pathway Analysis

The Office of Site Evaluation identifies three migration pathways and one exposure pathway, as identified in CERCLA's Hazard Ranking System, by which hazardous substances may pose threat to human health and/or the environment. Consequently, sites are evaluated on their known or potential impact to these pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure, and air migration.

5.2.1 Groundwater Pathway

The Groundwater pathway evaluates aquifers that underlie a source or contain contaminants attributable to the site. No off-site groundwater or drinking water samples have been collected in the SR or previous CERCLA investigations. Seven Geoprobe borings were conducted on the facility as a part of the CA fieldwork. Material consistent with the Process Waste Pile source was below the water table of the shallow aquifer beneath the site. Geoprobe ground water samples were obtained during the CA at five separate locations. Benzene was identified in several waste samples throughout the site and was also identified in 3 out of 5 Geoprobe groundwater sampling locations, at concentrations between 7 and 370 ug/L (the MCL for benzene is 5 ug/L). None of the four sources identified during past investigations have liners or any other containment features that would control migration of contaminants from the surface wastes into groundwater.

Research regarding groundwater use in 1990 identified only two residential wells using groundwater from the shallow unconsolidated deposits in a 39-square-mile area around the site (Cravens and Zahn). Cravens and Zahn's conclusions are bolstered by information from ISGS which identifies a total of 15 well records within 2 miles of the site, with all 15 wells having a recorded use of "commercial/industrial". The city of Chicago currently has an ordinance throughout the city that no new drinking water wells may be installed. The city of Chicago obtains its drinking water from surface water intakes located in Lake Michigan. The presence of groundwater at relatively shallow depths increases the likelihood of close interaction between groundwater and surface water in the area.

The flow direction of ground water in the unconsolidated deposits of the Lake Calumet area are connected to surface waters, streams, rivers, lakes, and wetlands (Craven and Zahn). However, Craven and Zahn note that the shallow ground water flow has been highly altered

from its original state due to the large amount of fill material brought into the area. Groundwater flow direction in the unconsolidated aquifer beneath the Acme Steel Coke Plant is unknown, however studies performed at the Interlake property note that flow direction is generally to the southwest (Illinois EPA, Interlake ESI).

5.2.2 Surface Water Pathway

This migration pathway discusses the hazardous substance migration path of the Overland Flow/Flood Component of the Surface Water Pathway. Contamination migration from the site has been documented both to the northeast to the Semet-Solvay slip of the Calumet River, and to the south to the Indian Ridge Marsh.

5.2.2.1 Semet-Solvay Slip

The primary pathway of contaminants into the Semet-Solvay Slip is by way of surface water run-off which enters into the Facility Trench on the site which is directed into Outfall#3 and then to the Semet-Solvay slip on the Calumet River. Information in Illinois EPA's files also indicate that some process waters may flow into the Trench due to historical storm water/sanitary sewer cross-connections in the system that were never corrected (Sloat). Lastly, surface water run-off that flows off the facility onto Torrence Avenue (east of the site) flows into manholes in the roadway that reportedly discharge into the Calumet River.

Contaminants associated with Coking operations were identified at several points within the Trench that could be directly linked to the surface water pathway and concentrations observed in sediments in the Semet-Solvay slip. Semi-volatile concentrations in samples X206 and X205 collected during the CA and samples X316, X317, X318, X319, and X320 document contamination in the Trench that discharges to the Semet-Solvay slip by way of Outfall#3. Contamination in the Semet-Solvay slip (as documented by sediment sample X207) begins the 15-mile in-water segment of the surface water pathway as identified in HRS scoring procedures (USEPA, Guidance). Figure 9 of this report identifies the PPE and 15-mile target distance limit.

Contamination in the slip beginning at the PPE, would flow 330 meters to the confluence with the Calumet River. Once in the Calumet River, flow travels south for approximately 4,300 meters where a portion of the river flows into Lake Calumet. The Calumet Rivers continues in a southerly direction for approximately 2,300 meters where it joins with the Grand Calumet River and becomes the Little Calumet River. The Little Calumet River which in turn continues in a

southwesterly direction for about 800 meters before meandering west through several Chicago suburbs. The 15-mile target distance limit, located just west of Robbins, Illinois ends the in-water segment.

The Calumet River has been identified as a Fishery by the Illinois Department of Natural Resources and is used for recreational purposes (Illinois EPA, Wisconsin ESI). In addition, fishing equipment was found within several feet of sediment sample X207, confirming that individuals are fishing in the area. The National Wetland Inventory Map for the area identifies a wetland adjacent to the Little Calumet River within 9,000 meters of the PPE for the site (U.S. DOI). The wetland has approximately 1,000 meters of frontage on the river and is identified as a Palustrine forested wetland that is temporarily flooded (U.S. DOI). The area encompassed by the wetland is estimated at approximately 58 acres (U.S. DOI; USGS).

5.2.2.2 Indian Ridge Marsh

Surface water runoff from the Coke Plant is drained onto adjacent properties by two water control structures identified in Chicago's Department of Environment's Calumet Hydrologic Master Plan. The structures are: a 12-inch diameter culvert that drains the southwest portion of the site westward beneath the railroad tracks into surface water located at Big Marsh; and, a 36-inch culvert that drains the southwest corner of the Coke Plant southward under 116th Street into Indian Ridge Marsh and associated wetlands. Both of these structures flow out of the ditch running north and south immediately west of the facility and east of the railroad tracks. In consideration of the track construction methods, the north-south ditch (or at least a depression) would have existed between the tracks and the facility since its inception. The north-south ditch is still present and the culvert running beneath 116th Street provides a continual conduit of for surface water runoff from the site into Indian Ridge Marsh.

General topography of the facility shows a gradual slope toward the southwest. Surface water run-off without man-made control features would flow into the low-lying area of Indian Ridge Marsh. Coke Plant operations and on-site features such as railroad tracks, on-site ponds, and piles of either coal, cinders, or slag appear to have altered the natural flow direction in one way or another over the years. Topographic maps produced by USGS from 1929, and 1953 show on-site tracks traveling on the west, south, and eastern edges of the facility, forming what may have been a barrier to the majority of southern surface water run-off during the early years of operation. An aerial photograph of the facility from 1938 shows water ponded on the

southeastern corner of the facility which may have been the result of run-off control the south. A 1963 USGS topographical map shows that the on-site railroad tracks are discontinuous on the facility's southern border and markings show the presence of wetland areas in the south-central region of the Coke Plant. The 1991 edition of the USGS topographical map depicts a perennial waterway on the facility beginning in the central region and flowing southwesterly through on-site wetlands directly into Indian Ridge Marsh. Maps produced by USGS depict the perennial water way as being present in map editions following 1991 and through 2018. The culvert running under 116th Street between the facility and Indian Ridge Marsh would provide a continuous connection between the perennial waterway and depicted on the topographic maps and Indian Ridge Marsh.

Site reconnaissance conducted between 2005 and today indicate that waste materials piled in the southwestern portion of the site have blocked what once was a perennial waterway from the central portion of the facility into Indian Ridge Marsh. However, surface water drainage from the extreme southwestern corner of the facility into the north-south ditch are believed to have remained constant. Additionally, surface water runoff from portions of the facility towards the west and into the north-south ditch continue. Soil and sediment samples collected during the SR document both the flow from the facility and into the ditch in the central portions of the site as well as run-off leaving the facility in the southwestern corner. Samples X226 and X225 document observed releases of fourteen SVOC compounds into the north-south ditch from western portion of the facility. Similar compounds meeting observed release criteria were identified in sample X224 representing flow from the southwestern corner of the facility into the ditch. Semi-volatile constituents in sample X223 collected from the north-south ditch south of 116th street and north of Indian Ridge Marsh documents continued contamination from the site by way of the ditch into the Marsh. Finally, laboratory results showing observed release of SVOCs in sediment samples X223 and X222 collected from in marsh document an observed release into an isolated wetland.

The overland flow pathway begins at sample location X226 and continues approximately 3,100 feet southward before reaching sediment sample location X222 which represents the Probable Point of Entry (PPE). The Target Distance Limit would be the furthest downgradient point of the wetland, approximately 1,900 feet south of the PPE location. In accordance with U.S. Fish and Wildlife Service National Wetland Inventory Maps, the wetland in Indian Ridge Marsh is categorized as a Freshwater Emergent Wetland with a perimeter of 2,144 meters and covering

an area over 30.1 acres. Wetlands line the small stream adjacent to and downstream of the site (U.S. Department of Interior, 2017). Indian Ridge Marsh hosts a large nesting colony of black-crowned night herons. The black-crowned night heron is on the Illinois Endangered Species list. The city of Chicago reported in 2005 that the marsh is “the largest nesting rookery for this species in the Upper Midwest; (with) approximately 800 black crowned night herons using the site. The marsh is a designated natural area as a part of the Chicago Park District.

5.2.2.2.1 Attribution

Sediment samples collected during the reassessment document observed releases of SVOC compounds in the north-south ditch and downstream into the Indian Ridge Marsh. Similar SVOC compounds were found in sediment samples X225, X226, X223 and X222, attributing contaminants in the Indian Ridge Marsh to the Acme facility. The geographic location of the culvert (oriented north-south and running under 116th street) establish a connection between at minimum, the southwest portion of the Acme facility and the northwestern corner of the Marsh. Similarly, due to the shared boundary of the Acme facility and the marsh (separated only by 116th Street), the northern regions of the marsh away from the northwestern corner may be impacted by shallow groundwater and springs within the marsh (Illinois EPA, Addendum). (Hydrogeologic studies of the area documented shallow groundwater flow from surrounding lands with higher elevation into the marsh [Illinois EPA, Addendum]). Although historical investigations of the nearby Lake Calumet Cluster site also documented SVOC impacts to the Marsh, these impacts were primarily by overland flow (through a culvert) into regions of the marsh south of the initial impacts from Acme (Illinois EPA, Addendum). (The culvert was identified approximately 1300 feet south of 116th Street during a field event conducted in 2004 [in preparation for the potential listing of the LCC site].) During the 2004 field event, extensive sediment sampling was conducted in the Indian Ridge Marsh and samples were shipped off-site for semi-volatile analysis and other parameters. The analysis documented attribution of SVOC contamination from the LCC site into primarily the west-central and southern regions of the Indian Ridge Marsh (Illinois EPA, Addendum). Figure 10 of this report displays SVOC concentrations in sediments in Indian Ridge Marsh from both the 2004 Illinois EPA investigation along with those from the 2018 reassessment. Greater concentrations of SVOC compounds in the northern region of the Marsh (where impacts from the Acme facility are the expected to be more significant) support attribution from at least the Acme facility, if not both Acme and the LCC site.

5.2.3 Soil Exposure

The Soil Exposure Pathway evaluates threats to individuals and sensitive environments exposed to surficial contamination at the site (both on or off the facility). The surface of almost the entire facility is covered with coal fines, cinders and varying percentages of coal tar or other unidentified process wastes and is identified as the Process Waste Pile within the report. To be conservative, the extent of surficial contamination (the Process Waste Pile) at the facility is defined by the area contained within Samples X301, X304, X306, X308, X309. Figure 7 identifies the aerial extent of surficial contamination at the site. The area of surface contamination encompasses 51.4 acres. The site is fenced although it has been cut in several locations and trespassers have been sighted on the property. There are currently no residents or individuals who could be characterized as workers on-site.

The waste present at the surface of the site at the facility was placed there by Acme and its predecessor, Interlake. It is assumed that the materials were spread throughout the property to control vegetation and surface water run-off. Additionally, Interlake owned and operated the property to the west of the facility, and also placed waste of similar characteristics on the land surface in certain areas (Illinois EPA, Wisconsin ESI).

Approximately 6,235 people reside within one mile of the facility. No residential samples were taken as a part of the SR or past CERCLA investigations. The table below identifies the number of residents within certain distances of the site.

| Distance in Miles | Population |
|--------------------------|-------------------|
| 0 – 1/4 | 560 |
| 1/4 - 1/2 | 1821 |
| 1/2 - 1 | 3,854 |
| Total | 6,235 |

5.2.4 Air Migration Pathway

No air samples were collected during CERCLA investigations. There are no records, reports, or complaints of air releases from the site. Based on the analytical results of soil and waste material samples collected during previous investigations, the potential for wind to carry particulates off the property is possible. In addition, due to sparse vegetation in many areas of

the site, any traffic over such areas raise dust when dry. The nearest resident to the site is 800 feet to the north-northeast. There are no employees currently working at the site.

6.0 SUMMARY AND CONCLUSION

The Acme Steel Coke Plant site is the former location of a coking facility located in south side of Chicago, in Cook County Illinois. The Calumet River and Lake Michigan are 0.3 miles and 2.83 miles east of the site, respectively. The site consists of approximately 104 acres.

The coke plant began to shut down its operations in October of 2001 following bankruptcy. Following its closure, several entities have been involved in the salvage and demolition of on-site structures. Illinois EPA's Office of Site Evaluation completed a CA for the site in 2004, conducted field work for an Expanded Site Inspection (ESI) in 2010, and a Site Reassessment (SR) in 2018. The results of the 2010 and 2018 sampling are discussed in this Site Reassessment report. Waste samples collected from the facility identified the presence of significant concentrations of Semi-volatile Organic Compounds (SVOCs), exceeding U.S. EPA's Removal Management Levels (RMLs) in a few cases.

During many years of operation, the facility discharged process wastewater to the Semet-Solvay slip located northeast of the site on the Calumet River. Sediment samples collected in both the slip and the river itself during the 2010 ESI met Observed Release Criteria for several SVOCs. The most recent CERCLA investigation (the Site Reassessment) focused on sediment sampling evaluating impact from surface water runoff to the south and into Indian Ridge Marsh and the results are reported within this SR report. During the SR six soil samples were obtained from the north-south ditch bordering the facility to the west and two sediment samples were collected from Indian Ridge Marsh. Concentrations of SVOCs meeting observed release criteria were identified in every release sample collected. Soil sample concentrations in the ditch upgradient of the marsh documented the overland flow route and both samples collected in marsh sediments documented a release to surface water and an isolated wetland.

7.0 REFERENCES

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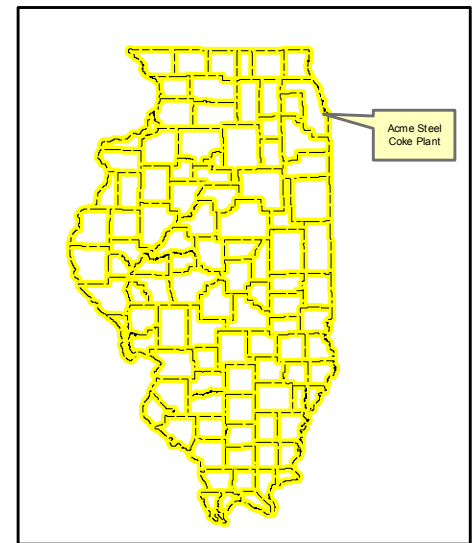
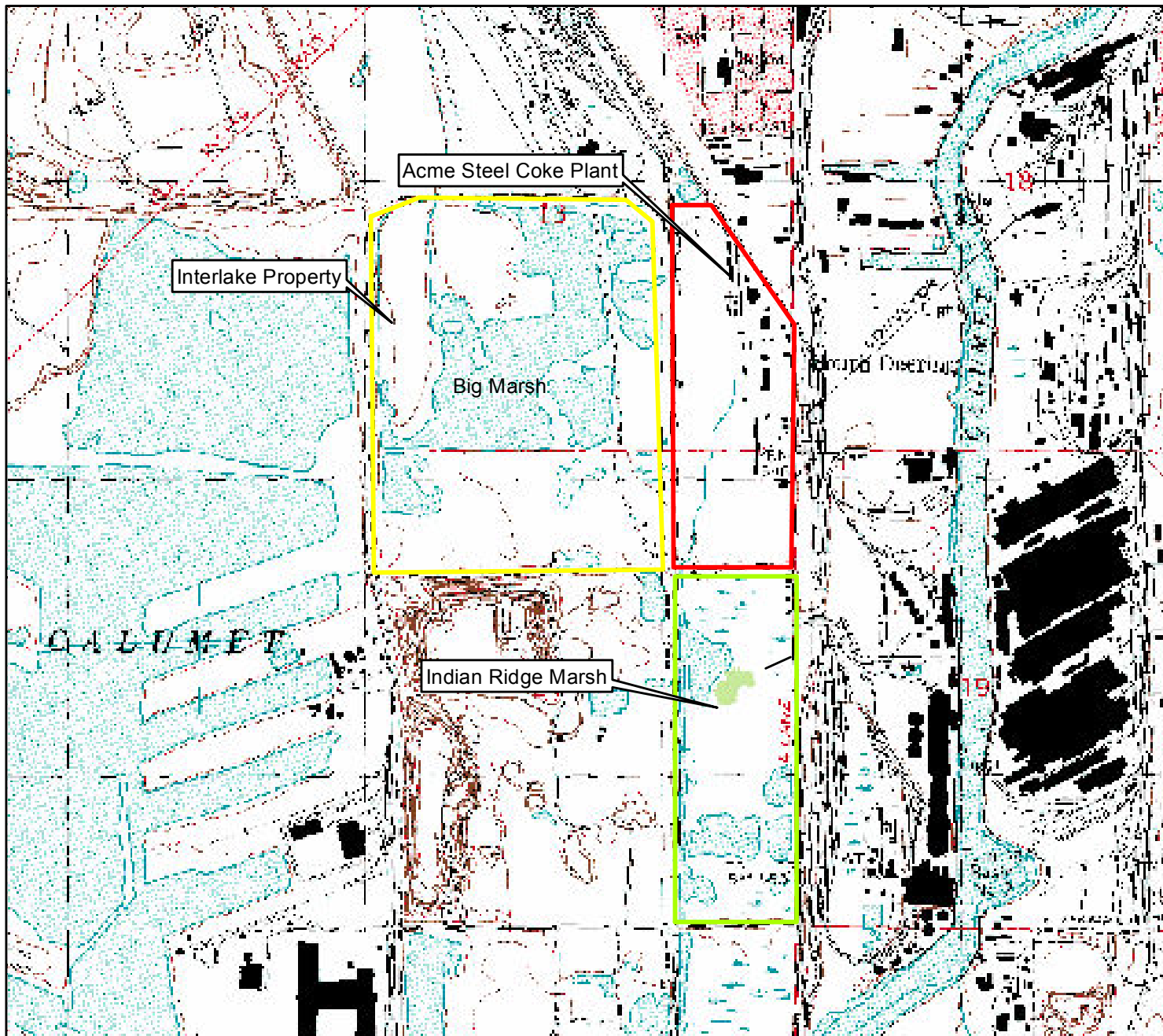
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Figures



**Figure 1
Acme Steel Coke Plant
Site Location**

0 205 410 820 1,230 1,640
Meters
HRS Page Number 38

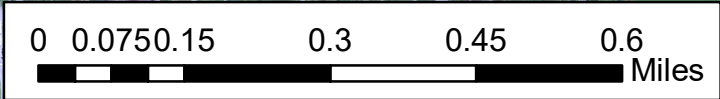


Figure 2
Acme Steel Coke Plant
Site and Surrounding Features



Big Marsh

Indian Ridge Marsh



Legend
■ Site Boundary

DA-FSA-APFO Aerial Photography Field Office, Illinois State Geological Survey, Copyright: © 2013 ESRI, i-cubed, GeoEye

Figure 3
Acme Steel Coke Plant
Combined Assessment
Waste and Sediment Sampling Locations



Legend

- Waste Sample Location
- Sediment Sample Locations
- Facility Boundary

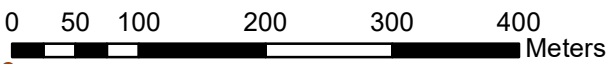
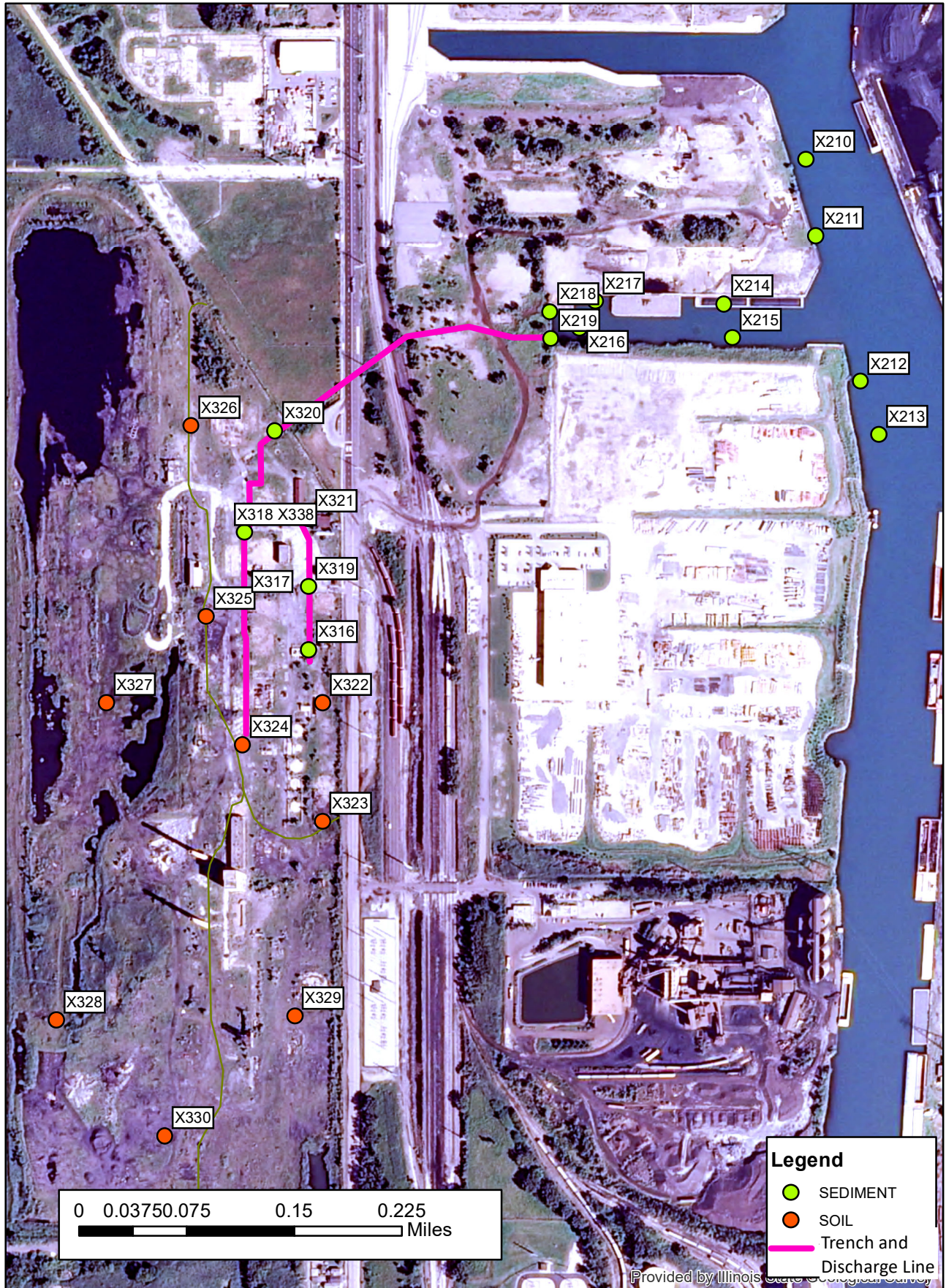


Figure 4
Acme Steel Coke Plant
 Expanded Site Inspections Sampling Locations

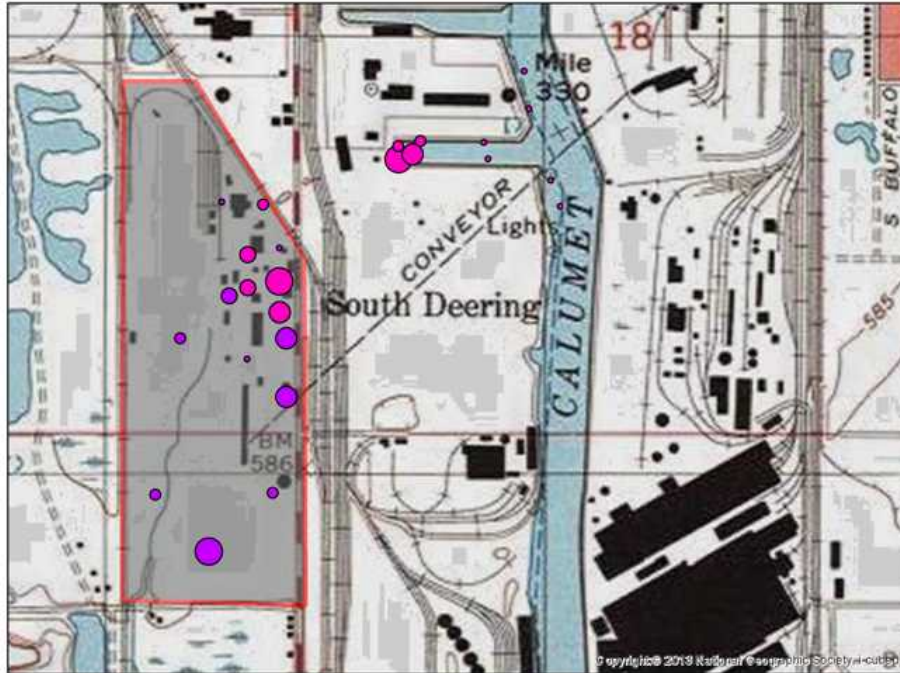


Note: Sediment samples 208 and 209 were collected in the Calumet River approximately 2.2 miles upsteam of Sample X210

FIGURE 5

ESI Concentrations in Soils and Sediments

Benzo(a)pyrene Concentrations in Soils and Sediments



Contaminants

Soil Samples

Benzo_a_pyrene

- 980 - 4600
- 4601 - 13000
- 13001 - 17000
- 17001 - 31000
- 31001 - 800000

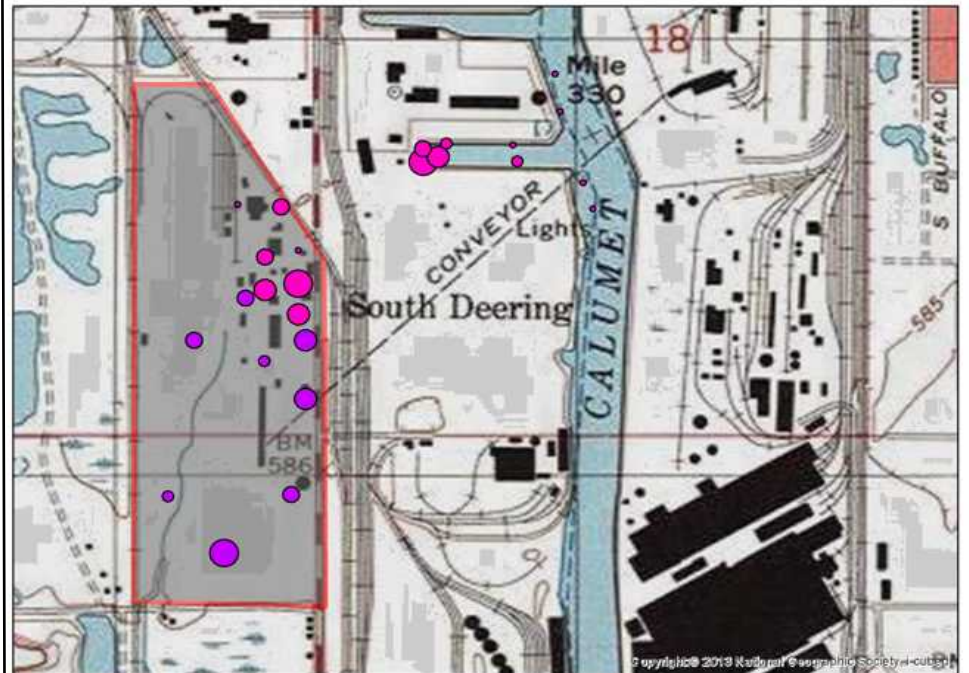
Sediment Samples

Benzo_a_pyrene

- 460 - 1600
- 1601 - 4400
- 4401 - 9200
- 9201 - 18000
- 18001 - 39000



Benzo(a)anthracene Concentrations in Soils and Sediments



Contaminants

Soil Samples

Benzo_a_anthracene

- 700 - 950
- 951 - 6200
- 6201 - 10000
- 10001 - 28000
- 28001 - 730000

Sediment Samples

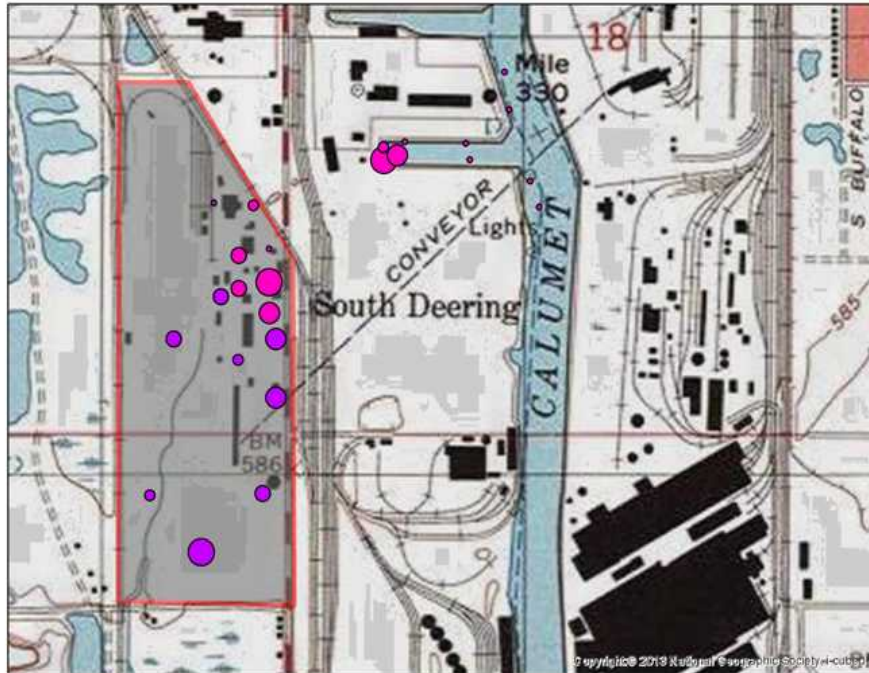
Benzo_a_anthracene

- 350 - 550
- 551 - 1900
- 1901 - 4700
- 4701 - 20000
- 20001 - 42000



FIGURE 6
ESI Concentrations in Soils and Sediments

Benzo(k)fluoranthene Concentrations in Soils and Sediments



Contaminants

Soil Samples

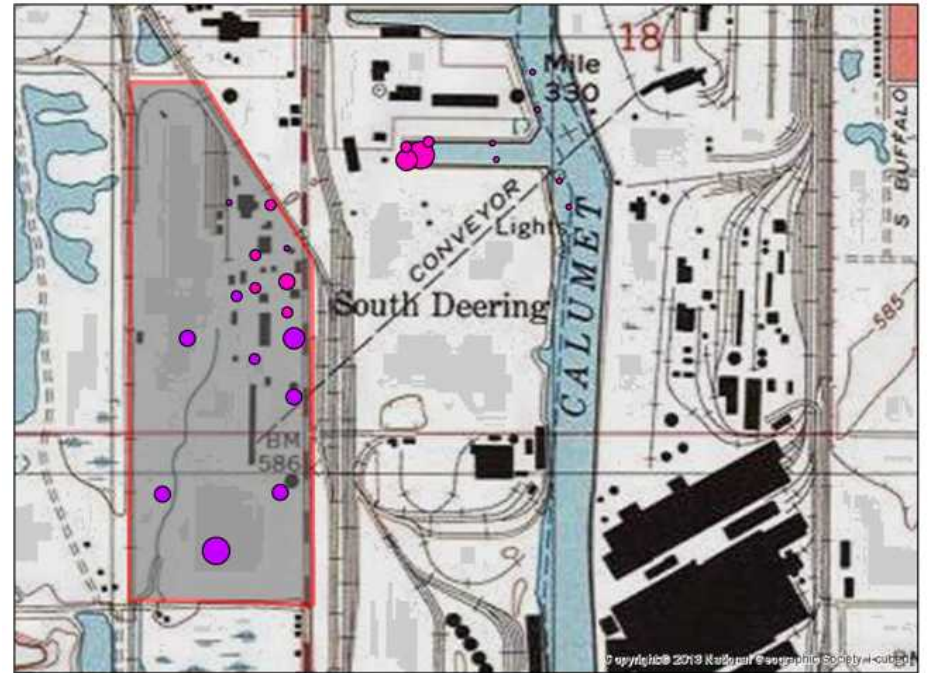
Sediment Samples

Benzo_k_fluoranthene Benzo_k_fluoranthene

- | | |
|------------------|-----------------|
| • 710 - 1100 | • 270 - 1400 |
| • 1101 - 6400 | • 1401 - 3500 |
| • 6401 - 12000 | • 3501 - 7700 |
| • 12001 - 24000 | • 7701 - 14000 |
| • 24001 - 630000 | • 14001 - 31000 |



Naphthalene Concentrations in Soils and Sediments



Contaminants

Soil Samples

Sediment Samples

Naphthalene

Naphthalene

- | | |
|-------------------|------------------|
| • 110 - 330 | • 290 - 1400 |
| • 331 - 1200 | • 1401 - 5800 |
| • 1201 - 6800 | • 5801 - 15000 |
| • 6801 - 54000 | • 15001 - 40000 |
| • 54001 - 3700000 | • 40001 - 310000 |



Figure 7

Acme Steel Coke Plant

HRS Source Identification Map



Legend

- Process Waste Pile
- French Drain and Sump
- Tar Impoundment
- Facility Trench and Discharge
- Facility Boundary

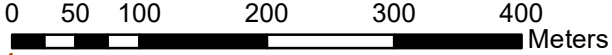
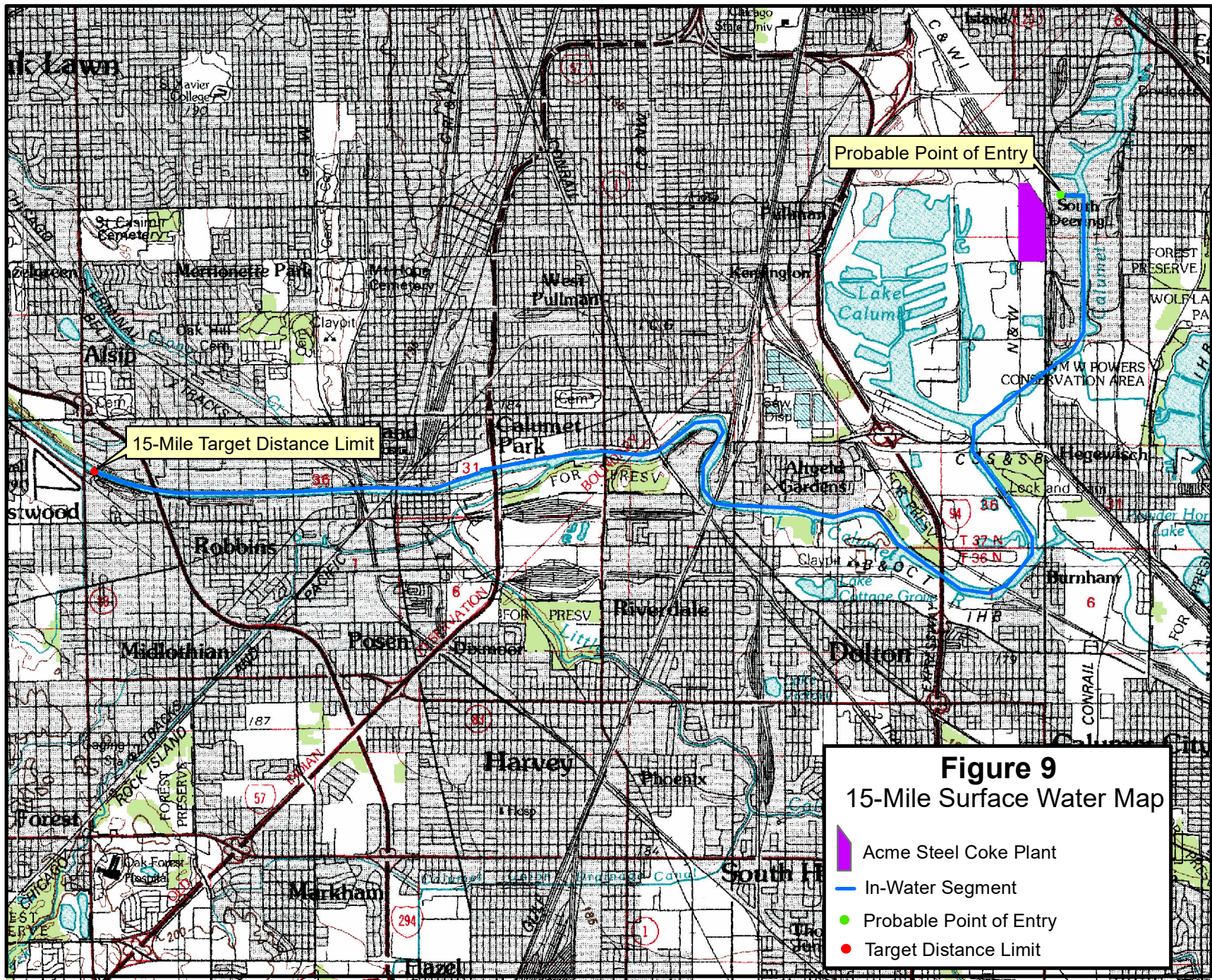


Figure 8
 Acme Steel Coke Plant
 Site Reassessment Sample Locations



- Legend**
- Site Boundary
 - Overland Flow Sample
 - Sediment Sample
 - Waste Sample

DA-FSA-APFO Aerial Photography Field Office, Illinois State Geological Survey, Copyright © 2013 ESRI, i-cubed, GeoEye



Probable Point of Entry

15-Mile Target Distance Limit

Figure 9
15-Mile Surface Water Map

- Acme Steel Coke Plant
- In-Water Segment
- Probable Point of Entry
- Target Distance Limit

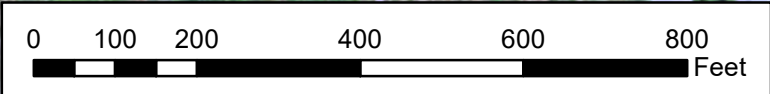


Figure 10
Acme Steel Coke Plant
Semi-volatile Organic Compound Concentrations
in Indian Ridge Marsh



Legend

- Sediment - 2018 Acme Reassessment
- ▲ Sediment - 2004 Lake Calumet Cluster ESI
- 820 Benzo(a)pyrene ug/Kg
- 590 Indeno(1,2,3-cd)pyrene ug/Kg
- 660 Benzo(g,h,i)perylene ug/Kg
- 120 Naphthalene ug/Kg



Tables

**Table 1
Sample Information**

| Sample | Type | Sample / Location Description | Analysis * |
|---------------|-------------|--|----------------------------|
| X221 | Sediment | Collected from Indian Ridge Marsh approximately 1,400 feet south of the culvert draining the southwest corner of the Coke Plant. Sampling location approximately 35 feet east of railroad tracks. Water at location is approximately 18 – 24” deep. Sample X221 collected from 12 – 18” beneath sediment surface . Sampled soft black silt with gray hue , resting on top of stiff layer assumed to be more clayey. No chemical odor noted. Sampled with stainless steel auger and trowel. | TM, VOC, SVOC, PEST/PCB |
| X222 | Sediment | Collected from Indian Ridge Marsh approximately 630 feet south of the culvert draining the southwest corner of the Coke Plant. Sampling location approximately 40 feet east of railroad tracks. Water at location is approximately 18” deep. Sample X222 collected from 6 - 12” beneath sediment surface . Sampled soft to medium black silt with low percentage sand , resting on top of stiff layer assumed to be more clayey. No chemical odor noted. Sampled with stainless steel auger and trowel. | TM, VOC, SVOC, PEST/PCB |
| X223 | Sediment | Sediment sample X223 was collected from ditch approximately 8 feet south of the culvert draining the southwest corner of the Coke Plant. Culvert runs north and south beneath western terminus of 116 th Street. Sampling location approximately 40 feet east of railroad tracks. Approximately 6” of water ponded at location. Sample X223 collected from 6 - 12” beneath sediment surface . Sample consisted of soft to medium black silt with low percentage sand . Sample had strong natural organic smell. Sampled with stainless steel auger and trowel. Vegetation in area was sparse but some roots noted in sediment. | TM, VOC, SVOC, PEST/PCB |
| X224 | Sediment | Sediment sample X224 intended to represent sediments prior to where surface water drains into north side of the culvert draining the southwest corner of the Coke Plant. Culvert runs north and south beneath western terminus of 116 th Street. Recently it appears that a truckload of railroad ballast had been dumped in the area covering the north opening of the culvert. Sampling location approximately 20 feet north of approximate location of culvert opening. Rudimentary erosion control consisting of telephone poles and used tires had been constructed decades earlier in apparent attempt to keep waste material from eroding off the site. Sample X224 collected on the east side wall of the ditch from 5 - 10” beneath sediment surface . Sampled contained black loam with slag fines . Sampled with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |
| X225 | Sediment | Sediment sample X225 collected from the eastern opening of culvert running westward beneath the railroad tracks and into surface water feeding Big Marsh. Sample collected from 4” beneath the sediment surface of sediments accumulated inside the opening of the culvert. Material sampled was black loam with roots . Sample collected with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |

| Sample | Type | Sample / Location Description | Analysis * |
|--------|----------|--|----------------------------|
| X226 | Sediment | Sediment sample X226 collected from a low-lying area adjacent to the ditch running north and south along the western border of the Coke Plant property. The ditch is much less defined in this area and becomes more of a depression. Sample collected approximately 6 feet west of the fence surrounding the facility. Sample collected from 12" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown silty loam with small amount of roots. | TM, VOC, SVOC, PEST/PCB |
| X227 | Sediment | Sample X227 collected at the northwestern corner of the Coke Plant within the surface water drainage route flowing southward along the property's western edge. Location intended to represent conditions within the drainage route prior to impacts from the facility. Sample collected from low-lying area west of the facility fence and approximately 60 feet east of the railroad tracks. Sample collected from 3 - 8" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown loam with low percentage sand. Roots present in material sampled. No slag or site impacts noted. Wetland species noted in immediate vicinity. | TM, VOC, SVOC, PEST/PCB |
| X228 | Sediment | Sample X228 collected from low-lying area north of the Coke Plant's northern boundary within the surface water drainage route flowing southward along the property's western edge. Location intended to represent background conditions. Sample collected from low-lying area on the western edge of the wetland located here that appears to drain southward. Sample collected from 3" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown loam with low percentage sand. Roots present in material sampled. No slag or site impacts noted. Phragmites/wetland species to east noted in immediate vicinity. Railroad ballast, trees and some slag located to the west of sampling location. | TM, VOC, SVOC, PEST/PCB |
| X230 | Sediment | Duplicate of X224 | TM, VOC, SVOC, PEST/PCB |
| X331 | Waste | Waste sample X331 collected in west-central portion of site at the beginning of drainageway that once flowed south and then off-site into Indian Ridge Marsh. Sample area is covered by phragmites growing out of slag fines and cinders with some loam. Sample collected at the base of a concrete wall defining the western edge of the drainageway from 0 - 3" BGS. Material sampled was cinders and possibly slag fines mixed with low percentage of dark brown/black loam. Collected with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |
| X332 | Waste | Waste sample location X332 collected in south-central portion of site where high concentrations of SVOCs identified in previous sampling events. Surface of site in the area covered with tar spots, slag pieces and associated fines. Sample X332 obtained with stainless steel trowel from 2 - 4" in black slag fines and small slag pieces. | TM, VOC, SVOC, PEST/PCB |
| X333 | Waste | Collected approximately 15' south of historic tank location in eastern portion of facility. Sample X333 obtained with stainless steel trowel from 0 - 6" in cinders and slag fines. | TM, VOC, SVOC, PEST/PCB |

* TM - Total Metals
VOC - Volatile Organic Compounds
SVOC – Semi-volatile Organic Compounds
PEST/PCB – Pesticides and Polychlorinated Biphenyl Compounds

TABLE 2
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X211 Sediment ug/Kg | | X210 Sediment ug/Kg | | X212 Sediment ug/Kg | | X213 Sediment ug/Kg | | X214 Sediment ug/Kg | | X215 Sediment ug/Kg | | X216 Sediment ug/Kg | | X217 Sediment ug/Kg | | X218 Sediment ug/Kg | | X219 Sediment ug/Kg | |
|---------------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Chloromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Vinyl chloride | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Bromomethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Chloroethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Trichlorofluoromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,1-Dichloroethene | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,1,2-Trichloro-1,2,2-trifluoro | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Acetone | 41 | | 40 | UJ | 54 | | 110 | | 48 | | 46 | | 90 | | 50 | | 84 | | 57 | |
| Carbon disulfide | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Methyl acetate | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Methylene chloride | 9.6 | U | 9.3 | U | 20 | U | 100 | U | 20 | U | 19 | U | 96 | U | 88 | U | 89 | U | 69 | U |
| trans-1,2-Dichloroethene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Methyl tert-butyl ether | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,1-Dichloroethane | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 19 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| cis-1,2-Dichloroethene | 9.6 | U | 9.3 | J | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 2-Butanone | 19 | U | 19 | U | 20 | U | 32 | | 20 | U | 19 | U | 19 | U | 18 | U | 18 | U | 14 | U |
| Bromochloromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Chloroform | 9.6 | U | 9.3 | | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,1,1-Trichloroethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Cyclohexane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 40 | J | 8.8 | U | 8.9 | U | 4.9 | J |
| Carbon tetrachloride | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Benzene | 9.6 | U | 9.3 | UJ | 10 | U | 10 | U | 10 | U | 9.4 | U | 47 | J | 8.8 | U | 8.9 | U | 240 | |
| 1,2-Dichloroethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,4-Dioxane | 190 | U | 190 | | 200 | U | 200 | U | 200 | U | 190 | UJ | 190 | U | 180 | U | 180 | U | 140 | U |
| Trichloroethene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Methylcyclohexane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 150 | J | 8.8 | U | 13 | | 16 | |
| 1,2-Dichloropropane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Bromodichloromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| cis-1,3-Dichloropropene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 4-Methyl-2-pentanone | 19 | U | 19 | U | 20 | U | 20 | U | 20 | U | 19 | U | 19 | U | 18 | U | 18 | U | 14 | U |
| Toluene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 20 | J | 8.8 | U | 8.9 | U | 35 | |
| trans-1,3-Dichloropropene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,1,2-Trichloroethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Tetrachloroethene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 2-Hexanone | 19 | U | 19 | U | 20 | U | 20 | U | 20 | U | 19 | U | 19 | U | 18 | U | 18 | U | 14 | U |
| Dibromochloromethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,2-Dibromoethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Chlorobenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Ethylbenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 140 | J | 8.8 | U | 8.9 | U | 180 | |
| o-Xylene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 78 | J | 8.8 | U | 8.5 | J | 130 | |
| m,p-Xylene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 78 | J | 8.8 | U | 6.8 | J | 120 | |
| Styrene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| Bromoform | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| Isopropylbenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 14 | J | 8.8 | U | 4.5 | J | 13 | |
| 1,1,2,2-Tetrachloroethane | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | U | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,3-Dichlorobenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,4-Dichlorobenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,2-Dichlorobenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,2-Dibromo-3-chloropropan | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,2,4-Trichlorobenzene | 9.6 | U | 9.3 | U | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |
| 1,2,3-Trichlorobenzene | 9.6 | U | 9.3 | | 10 | U | 10 | U | 10 | U | 9.4 | U | 9.6 | R | 8.8 | U | 8.9 | U | 6.9 | U |

TABLE 2
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X316 Waste ug/Kg | | X317 Waste ug/Kg | | X318 Waste ug/Kg | | X319 Waste ug/Kg | | X320 Waste ug/Kg | | X321 Waste ug/Kg | | X322 Waste ug/Kg | | X324 Waste ug/Kg | | X325 Waste ug/Kg | | X326 Waste ug/Kg | |
|---------------------------------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Chloromethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Vinyl chloride | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Bromomethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Chloroethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Trichlorofluoromethane | 7.6 | U | 7 | U | 8.8 | UJ | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,1-Dichloroethene | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 1,1,2-Trichloro-1,2,2-trifluoro | 7.6 | U | 7 | U | 8.8 | UJ | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | U | 5.6 | U |
| Acetone | 38 | | 14 | U | 26 | | 300 | | 14 | J | 11 | J | 17 | | 36 | J | 12 | R | 7.3 | J |
| Carbon disulfide | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| Methyl acetate | 7.6 | U | 7 | U | 8.8 | UJ | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | R | 5.6 | U |
| Methylene chloride | 15 | U | 14 | U | 8.8 | UJ | 18 | U | 14 | U | 30 | | 11 | UJ | 39 | J | 16 | J | 11 | U |
| trans-1,2-Dichloroethene | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Methyl tert-butyl ether | 7.6 | U | 7 | U | 8.8 | UJ | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,1-Dichloroethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| cis-1,2-Dichloroethene | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 2-Butanone | 15 | U | 14 | U | 18 | U | 130 | | 14 | U | 12 | U | 11 | U | 11 | U | 12 | U | 11 | U |
| Bromochloromethane | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| Chloroform | 7.6 | U | 7 | U | 8.8 | U | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 1,1,1-Trichloroethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | U | 5.6 | U |
| Cyclohexane | 7.6 | U | 7 | U | 8.8 | R | 49 | J | 7.1 | U | 5.9 | U | 4.5 | J | 5.7 | UJ | 5.8 | U | 5.6 | U |
| Carbon tetrachloride | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | U | 5.6 | U |
| Benzene | 7.6 | U | 7 | U | 8.8 | R | 250 | J | 7.1 | U | 28 | J | 120 | J | 5.6 | J | 5.8 | U | 5.6 | U |
| 1,2-Dichloroethane | 7.6 | U | 7 | U | 8.8 | UJ | 8.9 | U | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | U | 5.6 | U |
| 1,4-Dioxane | 150 | U | 140 | U | 180 | U | 180 | U | 140 | U | 120 | U | 110 | U | 110 | R | 120 | U | 110 | U |
| Trichloroethene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | R | 5.8 | R | 5.6 | U |
| Methylcyclohexane | 7.6 | U | 7 | U | 8.8 | R | 120 | J | 7.1 | U | 5.9 | U | 13 | J | 5 | J | 4.5 | J | 5.6 | U |
| 1,2-Dichloropropane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| Bromodichloromethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| cis-1,3-Dichloropropene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | UJ | 5.3 | UJ | 5.7 | UJ | 5.8 | UJ | 5.6 | U |
| 4-Methyl-2-pentanone | 15 | U | 14 | U | 18 | R | 18 | R | 14 | U | 12 | U | 11 | U | 11 | U | 12 | U | 11 | U |
| Toluene | 7.6 | U | 7 | U | 8.8 | R | 11 | J | 7.1 | U | 8.9 | J | 51 | J | 5.9 | J | 3.9 | J | 2.1 | J |
| trans-1,3-Dichloropropene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | UJ | 5.3 | UJ | 5.7 | UJ | 5.8 | UJ | 5.6 | U |
| 1,1,2-Trichloroethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | UJ | 5.3 | UJ | 5.7 | UJ | 5.8 | UJ | 5.6 | U |
| Tetrachloroethene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 2-Hexanone | 15 | U | 14 | U | 18 | R | 18 | R | 14 | U | 12 | U | 11 | U | 11 | U | 12 | U | 11 | U |
| Dibromochloromethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 1,2-Dibromoethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | UJ | 5.7 | UJ | 5.8 | U | 5.6 | U |
| Chlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| Ethylbenzene | 7.6 | U | 7 | U | 8.8 | R | 23 | J | 7.1 | U | 2.8 | J | 18 | J | 2.6 | J | 5.8 | U | 5.6 | U |
| o-Xylene | 7.6 | U | 7 | U | 8.8 | R | 15 | J | 7.1 | U | 2.7 | J | 73 | J | 3.1 | J | 5.8 | U | 5.6 | U |
| m,p-Xylene | 7.6 | U | 7 | U | 8.8 | R | 56 | J | 7.1 | U | 7.7 | J | 110 | J | 6.4 | J | 3.4 | J | 3.9 | J |
| Styrene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 6.7 | J | 5.7 | R | 5.8 | U | 5.6 | U |
| Bromoform | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |
| Isopropylbenzene | 7.6 | U | 7 | U | 8.8 | R | 160 | J | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 1,1,2,2-Tetrachloroethane | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | U | 5.3 | U | 5.7 | U | 5.8 | U | 5.6 | U |
| 1,3-Dichlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,4-Dichlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,2-Dichlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 7.2 | J | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,2-Dibromo-3-chloropropan | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,2,4-Trichlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |
| 1,2,3-Trichlorobenzene | 7.6 | U | 7 | U | 8.8 | R | 8.9 | R | 7.1 | U | 5.9 | R | 5.3 | R | 5.7 | R | 5.8 | R | 5.6 | U |

TABLE 2
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X327 Waste ug/Kg | | X328 Waste ug/Kg | | X329 Waste ug/Kg | | X330 Waste ug/Kg | | X338 Waste ug/Kg | |
|---------------------------------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Chloromethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Vinyl chloride | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Bromomethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Chloroethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Trichlorofluoromethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | UJ |
| 1,1-Dichloroethene | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| 1,1,2-Trichloro-1,2,2-trifluoro | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | UJ |
| Acetone | 43 | | 11 | U | 17 | | 11 | R | 45 | |
| Carbon disulfide | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Methyl acetate | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | UJ |
| Methylene chloride | 14 | | 12 | | 24 | | 59 | J | 9.4 | UJ |
| trans-1,2-Dichloroethene | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Methyl tert-butyl ether | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | UJ |
| 1,1-Dichloroethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| cis-1,2-Dichloroethene | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| 2-Butanone | 13 | U | 11 | U | 12 | U | 11 | R | 19 | U |
| Bromochloromethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| Chloroform | 6.3 | U | 5.4 | U | 6 | U | 5.3 | R | 9.4 | U |
| 1,1,1-Trichloroethane | 6.3 | U | 5.4 | U | 6 | U | 5.3 | U | 9.4 | R |
| Cyclohexane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Carbon tetrachloride | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Benzene | 6.3 | U | 5.4 | U | 6 | U | 5.5 | J | 9.4 | R |
| 1,2-Dichloroethane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | UJ |
| 1,4-Dioxane | 130 | U | 110 | U | 120 | U | 130 | U | 190 | U |
| Trichloroethene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Methylcyclohexane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2-Dichloropropane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Bromodichloromethane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| cis-1,3-Dichloropropene | 6.3 | UJ | 5.4 | UJ | 6 | U | 6.4 | U | 9.4 | R |
| 4-Methyl-2-pentanone | 13 | U | 11 | U | 12 | U | 13 | U | 19 | R |
| Toluene | 6.3 | U | 5.4 | U | 6 | U | 3.3 | J | 9.4 | R |
| trans-1,3-Dichloropropene | 6.3 | UJ | 5.4 | UJ | 6 | U | 6.4 | U | 9.4 | R |
| 1,1,2-Trichloroethane | 6.3 | UJ | 5.4 | UJ | 6 | U | 6.4 | U | 9.4 | R |
| Tetrachloroethene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 2-Hexanone | 13 | U | 11 | U | 12 | U | 13 | U | 19 | R |
| Dibromochloromethane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2-Dibromoethane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Chlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Ethylbenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| o-Xylene | 6.3 | U | 5.4 | U | 6 | U | 2.6 | J | 9.4 | R |
| m,p-Xylene | 6.3 | U | 2.2 | J | 6 | U | 5.3 | J | 9.4 | R |
| Styrene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Bromoform | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| Isopropylbenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,1,2,2-Tetrachloroethane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,3-Dichlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,4-Dichlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2-Dichlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2-Dibromo-3-chloropropane | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2,4-Trichlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |
| 1,2,3-Trichlorobenzene | 6.3 | U | 5.4 | U | 6 | U | 6.4 | U | 9.4 | R |

TABLE 3
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Semi-volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X211 Sediment ug/Kg | | X210 Sediment ug/Kg | | X212 Sediment ug/Kg | | X213 Sediment ug/Kg | | X214 Sediment ug/Kg | | X215 Sediment ug/Kg | | X216 Sediment ug/Kg | | X217 Sediment ug/Kg | | X218 Sediment ug/Kg | | X219 Sediment ug/Kg | |
|------------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Benzaldehyde | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Phenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Bis(2-chloroethyl)ether | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2-Chlorophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2-Methylphenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2,2'-Oxybis(1-chloropropane) | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Acetophenone | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 4-Methylphenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 190 | J | 300 | U | 300 | U | 240 | U |
| N-Nitroso-di-n-propylamine | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Hexachloroethane | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Nitrobenzene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Isophorone | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2-Nitrophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2,4-Dimethylphenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | UJ | 300 | U | 300 | U | 240 | UJ |
| Bis(2-chloroethoxy)methane | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2,4-Dichlorophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Naphthalene | 290 | J | 300 | J | 360 | | 510 | | 790 | J | 1400 | | ##### | J | 3700 | | 5800 | J | 37000 | J |
| 4-Chloroaniline | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Hexachlorobutadiene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Caprolactam | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| 4-Chloro-3-methylphenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2-Methylnaphthalene | 330 | UJ | 130 | J | 340 | U | 150 | J | 250 | J | 180 | J | 30000 | J | 340 | J | 620 | J | 4000 | J |
| Hexachlorocyclopentadiene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2,4,6-Trichlorophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2,4,5-Trichlorophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 1,1'-Biphenyl | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 2000 | J | 300 | U | 140 | J | 1800 | J |
| 2-Chloronaphthalene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 2-Nitroaniline | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| Dimethylphthalate | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| 2,6-Dinitrotoluene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Acenaphthylene | 330 | U | 310 | U | 340 | U | 350 | U | 270 | J | 270 | J | 320 | U | 290 | J | 770 | | 19000 | J |
| 3-Nitroaniline | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| Acenaphthene | 330 | U | 310 | U | 340 | U | 350 | U | 170 | J | 360 | | 47000 | J | 900 | | 1400 | | 5700 | J |
| 2,4-Dinitrophenol | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| 4-Nitrophenol | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| Dibenzofuran | 330 | UJ | 310 | U | 340 | U | 350 | U | 170 | J | 220 | J | 22000 | J | 500 | | 840 | J | 12000 | J |
| 2,4-Dinitrotoluene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Diethylphthalate | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| Fluorene | 330 | UJ | 310 | U | 340 | U | 350 | U | 250 | J | 290 | J | 29000 | J | 630 | | 1300 | J | 20000 | J |
| 4-Chlorophenyl-phenylether | 330 | UJ | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | UJ | 240 | U |
| 4-Nitroaniline | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| 4,6-Dinitro-2-methylphenol | 650 | U | 610 | U | 660 | U | 690 | U | 670 | U | 620 | U | 630 | U | 590 | U | 590 | U | 460 | U |
| N-Nitrosodiphenylamine | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 1,2,4,5-Tetrachlorobenzene | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| 4-Bromophenyl-phenylether | 330 | UJ | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| Hexachlorobenzene | 330 | UJ | 310 | UJ | 340 | UJ | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | UJ | 300 | U | 240 | UJ |
| Atrazine | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |
| Pentachlorophenol | 650 | UJ | 610 | UJ | 660 | UJ | 690 | UJ | 670 | U | 620 | UJ | 630 | U | 590 | UJ | 590 | UJ | 460 | U |
| Phenanthrene | 450 | | 530 | | 560 | | 520 | | 920 | | 1300 | | 52000 | J | 2500 | | 4300 | | 45000 | J |
| Anthracene | 180 | J | 210 | J | 230 | J | 210 | J | 400 | | 650 | | 27000 | J | 1100 | | 1800 | | 19000 | J |
| Carbazole | 330 | UJ | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 6600 | J | 300 | U | 220 | J | 2900 | |
| Di-n-butylphthalate | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| Fluoranthene | 630 | J | 810 | J | 920 | J | 720 | J | 1400 | J | 2700 | J | 45000 | J | 4500 | J | 8200 | J | 41000 | J |
| Pyrene | 510 | J | 660 | J | 640 | J | 640 | J | 1200 | J | 1900 | J | 39000 | J | 3100 | J | 5200 | J | 29000 | J |
| Butylbenzylphthalate | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| 3,3'-Dichlorobenzidine | 330 | U | 310 | U | 340 | U | 350 | U | 350 | UJ | 320 | U | 320 | UJ | 300 | U | 300 | U | 240 | UJ |
| Benzo(a)anthracene | 350 | J | 450 | J | 480 | J | 430 | J | 710 | J | 1300 | J | 26000 | J | 1900 | J | 3300 | J | 24000 | J |
| Chrysene | 430 | J | 490 | J | 550 | J | 520 | J | 810 | J | 1300 | J | 24000 | J | 2000 | J | 3200 | J | 19000 | J |
| Bis(2-ethylhexyl)phthalate | 140 | J | 310 | UJ | 160 | J | 190 | J | 250 | J | 320 | UJ | 510 | J | 160 | J | 180 | J | 240 | UJ |
| Di-n-octylphthalate | 330 | UJ | 310 | UJ | 340 | U | 350 | UJ | 350 | UJ | 320 | UJ | 320 | UJ | 300 | U | 300 | UJ | 240 | UJ |
| Benzo(b)fluoranthene | 350 | J | 410 | J | 480 | J | 380 | J | 690 | J | 1300 | J | 35000 | J | 2100 | J | 3900 | J | 21000 | J |
| Benzo(k)fluoranthene | 270 | J | 320 | J | 290 | J | 280 | J | 630 | J | 990 | J | 14000 | J | 1400 | J | 2700 | J | 20000 | J |
| Benzo(a)pyrene | 460 | J | 520 | J | 610 | J | 600 | J | 900 | J | 1600 | J | 28000 | J | 2400 | J | 4100 | J | 27000 | J |
| Indeno(1,2,3-cd)pyrene | 260 | J | 320 | J | 360 | J | 330 | J | 520 | J | 1000 | J | 13000 | J | 1500 | J | 2600 | J | 13000 | J |
| Dibenzo(a,h)anthracene | 330 | UJ | 140 | J | 170 | J | 170 | J | 230 | J | 340 | J | 4400 | J | 470 | J | 850 | J | 3400 | J |
| Benzo(g,h,i)perylene | 400 | J | 430 | J | 520 | J | 590 | J | 600 | J | 1200 | J | 11000 | J | 1800 | J | 2800 | J | 11000 | J |
| 2,3,4,6-Tetrachlorophenol | 330 | U | 310 | U | 340 | U | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 240 | U |

TABLE 3
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Semi-Volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X316 Waste ug/Kg | | X317 Waste ug/Kg | | X318 Waste ug/Kg | | X319 Waste ug/Kg | | X320 Waste ug/Kg | | X321 Waste ug/Kg | | X322 Waste ug/Kg | | X323 Waste ug/Kg | | X324 Waste ug/Kg | | X325 Waste ug/Kg | |
|------------------------------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Benzaldehyde | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Phenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 1300 | U | 1800 | U | 920 | J | 2000 | U | 2000 | U |
| Bis(2-chloroethyl)ether | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Chlorophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 1000 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Methylphenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,2'-Oxybis(1-chloropropane) | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Acetophenone | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 4-Methylphenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| N-Nitroso-di-n-propylamine | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 1100 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Hexachloroethane | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Nitrobenzene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Isophorone | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Nitrophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,4-Dimethylphenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | UJ | 1800 | UJ | 2200 | UJ | 2000 | UJ | 2000 | UJ |
| Bis(2-chloroethoxy)methane | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,4-Dichlorophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Naphthalene | 2700 | | 6700 | | 5800 | | 3500 | | 3100 | | 350 | | 76000 | J | 10000 | J | 1000 | J | 1200 | J |
| 4-Chloroaniline | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Hexachlorobutadiene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Caprolactam | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 4-Chloro-3-methylphenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 1100 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Methylnaphthalene | 2500 | U | 1200 | J | 3000 | UJ | 3000 | UJ | 2400 | U | 110 | J | 14000 | | 2200 | U | 2000 | U | 2000 | U |
| Hexachlorocyclopentadiene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,4,6-Trichlorophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,4,5-Trichlorophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 1,1'-Biphenyl | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 2700 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Chloronaphthalene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2-Nitroaniline | 4900 | U | 4700 | U | 5900 | U | 5900 | U | 4800 | U | 400 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| Dimethylphthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 2,6-Dinitrotoluene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Acenaphthylene | 7300 | | 3600 | | 3000 | U | 5300 | | 2400 | U | 130 | J | 31000 | J | 5000 | J | 2000 | U | 2000 | U |
| 3-Nitroaniline | 4900 | U | 4700 | U | 5900 | U | 5900 | U | 4800 | U | 400 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| Acenaphthene | 2500 | U | 3000 | | 3000 | U | 5400 | | 2400 | U | 1100 | U | 2800 | | 1300 | J | 2000 | U | 1200 | J |
| 2,4-Dinitrophenol | 4900 | U | 4700 | U | 5900 | U | 5900 | U | 4800 | U | 400 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| 4-Nitrophenol | 4900 | U | 4700 | U | 5900 | U | 5900 | U | 4800 | U | 900 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| Dibenzofuran | 2500 | U | 3400 | J | 3000 | UJ | 3000 | U | 1100 | J | 210 | U | 23000 | | 2200 | J | 2000 | U | 2000 | U |
| 2,4-Dinitrotoluene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 1000 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Diethylphthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Fluorene | 2500 | U | 4100 | | 3000 | U | 2000 | J | 2400 | U | 210 | U | 32000 | J | 5000 | J | 2000 | U | 2000 | U |
| 4-Chlorophenyl-phenylether | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 4-Nitroaniline | 4900 | U | 4700 | U | 5900 | U | 5900 | U | 4800 | U | 400 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| 4,6-Dinitro-2-methylphenol | 4900 | UJ | 4700 | U | 5900 | UJ | 5900 | U | 4800 | U | 400 | U | 3600 | U | 4200 | U | 3800 | UJ | 3900 | U |
| N-Nitrosodiphenylamine | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 1,2,4,5-Tetrachlorobenzene | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 4-Bromophenyl-phenylether | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Hexachlorobenzene | 2500 | UJ | 2400 | UJ | 3000 | UJ | 3000 | UJ | 2400 | UJ | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Atrazine | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Pentachlorophenol | 4900 | UJ | 4700 | UJ | 5900 | UJ | 5900 | UJ | 4800 | UJ | 800 | U | 3600 | U | 4200 | U | 3800 | U | 3900 | U |
| Phenanthrene | 6100 | J | 32000 | | 4100 | | 24000 | | 9000 | | 360 | | ##### | J | 30000 | J | 1700 | J | 4600 | J |
| Anthracene | 3200 | J | 11000 | | 1400 | J | 17000 | | 1500 | J | 110 | J | 32000 | J | 12000 | J | 2000 | U | 1500 | J |
| Carbazole | 1100 | J | 2800 | | 3000 | U | 3000 | U | 1200 | J | 210 | U | 12000 | | 2900 | U | 2000 | U | 2000 | U |
| Di-n-butylphthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Fluoranthene | 20000 | | 40000 | J | 7600 | | ##### | J | 12000 | | 1300 | | ##### | J | 62000 | J | 4900 | | 11000 | J |
| Pyrene | 13000 | | 26000 | | 5500 | | 78000 | J | 7400 | | 2100 | | 66000 | J | 52000 | J | 4800 | | 10000 | J |
| Butylbenzylphthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| 3,3'-Dichlorobenzidine | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Benzo(a)anthracene | 11000 | | 15000 | | 4700 | | 55000 | J | 4400 | | 950 | | 33000 | J | 28000 | J | 3700 | | 10000 | J |
| Chrysene | 12000 | | 13000 | | 5200 | | 51000 | J | 5100 | | 1000 | | 30000 | J | 28000 | J | 4100 | | 11000 | J |
| Bis(2-ethylhexyl)phthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Di-n-octylphthalate | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Benzo(b)fluoranthene | 15000 | | 12000 | | 6700 | | 50000 | J | 5100 | | 1400 | J | 29000 | J | 31000 | J | 4300 | J | 15000 | J |
| Benzo(k)fluoranthene | 11000 | | 11000 | | 5000 | | 32000 | | 3500 | | 1100 | | 25000 | J | 24000 | J | 3800 | | 12000 | J |
| Benzo(a)pyrene | 14000 | | 13000 | | 6700 | | 50000 | J | 4400 | | 1300 | J | 30000 | | 31000 | J | 4600 | | 17000 | J |
| Indeno(1,2,3-cd)pyrene | 12000 | | 8800 | | 6000 | | 29000 | | 3500 | | 1100 | | 17000 | | 21000 | J | 3500 | | 13000 | J |
| Dibenzo(a,h)anthracene | 4000 | | 3300 | | 2300 | J | 12000 | | 1400 | J | 400 | J | 5400 | | 7100 | J | 1400 | J | 5500 | J |
| Benzo(g,h,i)perylene | 13000 | | 9400 | | 6800 | | 30000 | | 3800 | | 1200 | | 16000 | | 23000 | J | 3800 | | 15000 | J |
| 2,3,4,6-Tetrachlorophenol | 2500 | U | 2400 | U | 3000 | U | 3000 | U | 2400 | U | 210 | U | 1800 | U | 2200 | U | 2000 | U | 2000 | U |
| Pyrene | 74 | J | 1200 | | 760 | | 7700 | | 3600 | | 11000 | J | 5000 | | 4300 | | 74 | J | 8700 | |

TABLE 3
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Semi-volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X326 Waste ug/Kg | | X327 Waste ug/Kg | | X328 Waste ug/Kg | | X329 Waste ug/Kg | | X330 Waste ug/Kg | | X338 Waste ug/Kg | |
|------------------------------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Benzaldehyde | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Phenol | 190 | U | 110 | J | 190 | U | 200 | U | 20000 | | 3200 | U |
| Bis(2-chloroethyl)ether | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2-Chlorophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2-Methylphenol | 190 | U | 210 | U | 190 | U | 200 | U | 6500 | | 3200 | U |
| 2,2'-Oxybis(1-chloropropane) | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Acetophenone | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 4-Methylphenol | 190 | U | 120 | J | 190 | U | 200 | U | 24000 | | 3200 | U |
| N-Nitroso-di-n-propylamine | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Hexachloroethane | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Nitrobenzene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Isophorone | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2-Nitrophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2,4-Dimethylphenol | 190 | UJ | 210 | UJ | 190 | UJ | 200 | UJ | 6600 | J | 3200 | U |
| Bis(2-chloroethoxy)methane | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2,4-Dichlorophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Naphthalene | 110 | J | 5200 | J | 5100 | J | 3900 | J | 1800 | U | 7300 | |
| 4-Chloroaniline | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Hexachlorobutadiene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Caprolactam | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 4-Chloro-3-methylphenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2-Methylnaphthalene | 190 | U | 880 | | 1400 | J | 820 | J | ##### | J | 1400 | J |
| Hexachlorocyclopentadiene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2,4,6-Trichlorophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2,4,5-Trichlorophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 1,1'-Biphenyl | 190 | U | 220 | | 400 | | 200 | | ##### | J | 3200 | U |
| 2-Chloronaphthalene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2-Nitroaniline | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | U |
| Dimethylphthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 2,6-Dinitrotoluene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Acenaphthylene | 150 | J | 1500 | | 940 | J | 5000 | J | ##### | J | 1500 | J |
| 3-Nitroaniline | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | U |
| Acenaphthene | 190 | U | 1300 | | 1100 | J | 140 | J | 48000 | J | 3200 | U |
| 2,4-Dinitrophenol | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | U |
| 4-Nitrophenol | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | U |
| Dibenzofuran | 190 | U | 1200 | | 1200 | | 690 | J | ##### | J | 1500 | J |
| 2,4-Dinitrotoluene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Diethylphthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Fluorene | 190 | U | 1500 | | 1100 | | 330 | J | ##### | J | 3200 | U |
| 4-Chlorophenyl-phenylether | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 4-Nitroaniline | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | U |
| 4,6-Dinitro-2-methylphenol | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | UJ | 6200 | UJ |
| N-Nitrosodiphenylamine | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 1,2,4,5-Tetrachlorobenzene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 4-Bromophenyl-phenylether | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Hexachlorobenzene | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | UJ |
| Atrazine | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Pentachlorophenol | 370 | U | 410 | U | 370 | U | 400 | U | 3500 | U | 6200 | UJ |
| Phenanthrene | 630 | | 8400 | J | 8300 | J | 6200 | J | ##### | J | 5500 | J |
| Anthracene | 140 | J | 5700 | J | 3400 | J | 2100 | J | ##### | J | 1800 | J |
| Carbazole | 190 | U | 1200 | | 1400 | | 450 | J | ##### | J | 3200 | U |
| Di-n-butylphthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Fluoranthene | 870 | | 16000 | J | 11000 | J | 16000 | J | ##### | J | 9600 | |
| Pyrene | 960 | | 14000 | J | 8700 | J | 13000 | J | ##### | J | 7200 | |
| Butylbenzylphthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| 3,3'-Dichlorobenzidine | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Benzo(a)anthracene | 700 | | 10000 | J | 6900 | J | 10000 | J | ##### | J | 6000 | |
| Chrysene | 750 | | 11000 | J | 7000 | J | 10000 | J | ##### | J | 6800 | |
| Bis(2-ethylhexyl)phthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Di-n-octylphthalate | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Benzo(b)fluoranthene | 900 | J | 13000 | J | 8000 | J | 12000 | J | ##### | J | 8600 | |
| Benzo(k)fluoranthene | 710 | | 7800 | J | 6800 | J | 9800 | J | ##### | J | 6600 | |
| Benzo(a)pyrene | 980 | | 13000 | J | 9200 | J | 10000 | J | ##### | J | 8500 | |
| Indeno(1,2,3-cd)pyrene | 820 | | 8700 | J | 6300 | J | 8100 | J | ##### | J | 7300 | |
| Dibenzo(a,h)anthracene | 300 | | 3200 | | 3300 | J | 2800 | | 88000 | J | 2800 | J |
| Benzo(g,h,i)perylene | 1000 | | 9200 | J | 7000 | J | 8400 | J | ##### | J | 8300 | |
| 2,3,4,6-Tetrachlorophenol | 190 | U | 210 | U | 190 | U | 200 | U | 1800 | U | 3200 | U |
| Pyrene | 74 | J | 74 | J | 1200 | | 760 | | 7700 | | 3600 | |

TABLE 4
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Pesticide and PCB Compounds (ug/Kg)

| Location Matrix Units | X211 Sediment ug/Kg | | X210 Sediment ug/Kg | | X212 Sediment ug/Kg | | X213 Sediment ug/Kg | | X214 Sediment ug/Kg | | X215 Sediment ug/Kg | | X216 Sediment ug/Kg | | X217 Sediment ug/Kg | | X218 Sediment ug/Kg | | X219 Sediment ug/Kg | | X316 Waste ug/Kg | | X317 Waste ug/Kg | | X318 Waste ug/Kg | | |
|-----------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|------------------------|------|------------------------|------|------------------------|------|--------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | |
| Aroclor-1016 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1221 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1232 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1242 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1248 | 84 | J | 120 | J | 35 | J | 69 | U | 67 | U | 60 | J | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1254 | 42 | J | 45 | J | 19 | J | 69 | UJ | 67 | UJ | 29 | J | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1260 | 26 | J | 29 | J | 66 | UJ | 69 | U | 67 | U | 18 | J | 63 | U | 59 | U | 59 | U | 21 | J | 49 | U | 46 | U | 71 | | |
| Aroclor-1262 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| Aroclor-1268 | 64 | U | 61 | U | 66 | UJ | 69 | U | 67 | U | 62 | U | 63 | U | 59 | U | 59 | U | 45 | U | 49 | U | 46 | U | 58 | U | |
| alpha-BHC | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| beta-BHC | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | UJ | 3.5 | UJ | 3.2 | UJ | 3.2 | UJ | 3 | UJ | 3 | UJ | 2.3 | UJ | 2.5 | UJ | 2.4 | UJ | 3 | UJ | |
| delta-BHC | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| gamma-BHC (Lindane) | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Heptachlor | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Aldrin | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Heptachlor epoxide | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Endosulfan I | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Dieldrin | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| 4,4'-DDE | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| Endrin | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| Endosulfan II | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| 4,4'-DDD | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| Endosulfan sulfate | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| 4,4'-DDT | 3.6 | J | 4 | J | 1.6 | J | 6.9 | UJ | 6.7 | UJ | 6.2 | UJ | 6.3 | UJ | 5.9 | UJ | 5.9 | UJ | 4.5 | UJ | 4.9 | UJ | 4.6 | UJ | 7.1 | J | |
| Methoxychlor | 33 | U | 31 | U | 34 | UJ | 35 | U | 35 | U | 32 | U | 32 | U | 30 | U | 30 | U | 23 | U | 25 | U | 24 | U | 30 | U | |
| Endrin ketone | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| Endrin aldehyde | 6.4 | U | 6.1 | U | 6.6 | UJ | 6.9 | U | 6.7 | U | 6.2 | U | 6.3 | U | 5.9 | U | 5.9 | U | 4.5 | U | 4.9 | U | 4.6 | U | 5.8 | U | |
| alpha-Chlordane | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| gamma-Chlordane | 3.3 | U | 3.1 | U | 3.4 | UJ | 3.5 | U | 3.5 | U | 3.2 | U | 3.2 | U | 3 | U | 3 | U | 2.3 | U | 2.5 | U | 2.4 | U | 3 | U | |
| Toxaphene | 330 | U | 310 | U | 340 | UJ | 350 | U | 350 | U | 320 | U | 320 | U | 300 | U | 300 | U | 230 | U | 250 | U | 240 | U | 300 | U | |

TABLE 4
Acme Steel Coke Plant
Expanded Site Inspection
Sediment and Waste Analytical Results
Pesticide and PCB Compounds (ug/Kg)

| Location Matrix Units | X319 | | X320 | | X321 | | X322 | | X323 | | X324 | | X325 | | X326 | | X327 | | X328 | | X329 | | X330 | | X338 | |
|-----------------------------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag | Waste ug/Kg | Flag |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Aroclor-1016 | 59 | U | 48 | U | 120 | J | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1221 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1232 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1242 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1248 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1254 | 59 | UJ | 48 | UJ | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | UJ |
| Aroclor-1260 | 59 | U | 180 | | 140 | J | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 150 | J |
| Aroclor-1262 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 38 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| Aroclor-1268 | 59 | U | 48 | U | 40 | U | 36 | U | 42 | U | 38 | U | 49 | U | 37 | U | 41 | U | 37 | U | 40 | U | 35 | U | 62 | U |
| alpha-BHC | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| beta-BHC | 3 | UJ | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | UJ |
| delta-BHC | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| gamma-BHC (Lindane) | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Heptachlor | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Aldrin | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Heptachlor epoxide | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Endosulfan I | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Dieldrin | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| 4,4'-DDE | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| Endrin | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| Endosulfan II | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| 4,4'-DDD | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| Endosulfan sulfate | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| 4,4'-DDT | 5.9 | UJ | 14 | | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 15 | J |
| Methoxychlor | 30 | U | 25 | U | 20 | U | 18 | U | 22 | U | 20 | U | 20 | U | 19 | U | 21 | U | 19 | U | 20 | U | 18 | U | 32 | U |
| Endrin ketone | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| Endrin aldehyde | 5.9 | U | 4.8 | U | 3.9 | U | 3.6 | U | 4.2 | U | 3.8 | U | 3.8 | U | 3.7 | U | 4.1 | U | 3.7 | U | 4 | U | 3.5 | U | 6.2 | U |
| alpha-Chlordane | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| gamma-Chlordane | 3 | U | 2.5 | U | 2 | U | 1.8 | U | 2.2 | U | 2 | U | 2 | U | 1.9 | U | 2.1 | U | 1.9 | U | 2 | U | 1.8 | U | 3.2 | U |
| Toxaphene | 300 | U | 250 | U | 200 | U | 180 | U | 220 | U | 200 | U | 200 | U | 190 | U | 210 | U | 190 | U | 200 | U | 180 | U | 320 | U |

TABLE 5
Acme Steel
Sediment and Waste Samples
TCL Metals Analysis Results in mg/Kg

| Sampling Location : Matrix : Units : | X208 | | X209 | | X210 | | X211 | | X212 | | X214 | | X215 | | X213 | | X216 | | X217 | | X218 | |
|--|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM | 10100 | J | 8550 | J | 8760 | J | 9110 | J | 9500 | J | 11100 | J | 11600 | J | 11500 | J | 6700 | J | 8600 | J | 6800 | J |
| ANTIMONY | 0.8 | J | 13 | UJ | 0.65 | J | 0.94 | J | 1.2 | J | 0.63 | J | 0.94 | J | 1.1 | J | 1.2 | J | 1.3 | J | 0.66 | J |
| ARSENIC | 15.6 | J | 11.2 | J | 18.2 | J | 17.3 | J | 19 | J | 18.8 | J | 20.7 | J | 20 | J | 13.4 | J | 17.5 | J | 14.4 | J |
| BARIUM | 62.1 | J | 78.1 | J | 63 | J | 65.4 | J | 67.3 | J | 68.8 | J | 120 | J | 88.2 | J | 68.4 | J | 112 | J | 90.7 | J |
| BERYLLIUM | 0.44 | J- | 0.25 | J- | 0.47 | J- | 0.48 | J- | 0.52 | J- | 0.65 | J- | 1 | J- | 0.68 | J- | 0.48 | J- | 0.72 | J- | 0.83 | J- |
| CADMIUM | 0.84 | J | 1.2 | J | 1.7 | J | 1.8 | J | 2.4 | J | 2.3 | J | 2.5 | J | 2.5 | J | 1.8 | J | 2.5 | J | 2.2 | J |
| CALCIUM | 65700 | J | 50500 | J | 49700 | J | 45800 | J | 46700 | J | 54400 | J | 70000 | J | 54800 | J | 40800 | J | 49400 | J | 36900 | J |
| CHROMIUM | 36.1 | J | 43.8 | J | 62.7 | J | 65.3 | J | 67.5 | J | 74.2 | J | 127 | J | 77.8 | J | 60.5 | J | 76.8 | J | 55.7 | J |
| COBALT | 12.4 | J | 8.7 | J | 12.2 | J | 12.2 | J | 13.5 | J | 13 | J | 14 | J | 14.2 | J | 9.5 | J | 10.8 | J | 12.5 | J |
| COPPER | 56.8 | J | 88 | J | 80.7 | J | 77.2 | J | 90.5 | J | 98.8 | J | 93.5 | J | 99.3 | J | 65.3 | J | 80 | J | 70.8 | J |
| IRON | 38300 | J | 29800 | J | 52100 | J | 57100 | J | 60900 | J | 52900 | J | 56300 | J | 56500 | J | 41500 | J | 50900 | J | 43000 | J |
| LEAD | 110 | J | 132 | J | 180 | J | 204 | J | 277 | J | 246 | J | 279 | J | 264 | J | 204 | J | 256 | J | 207 | J |
| MAGNESIUM | 31500 | J | 21600 | J | 21200 | J | 19900 | J | 20100 | J | 21500 | J | 24800 | J | 23800 | J | 17300 | J | 18400 | J | 15000 | J |
| MANGANESE | 1010 | J | 622 | J | 1550 | J | 1420 | J | 1450 | J | 1380 | J | 1830 | J | 1460 | J | 945 | J | 1240 | J | 862 | J |
| MERCURY | 0.13 | J | 0.37 | | 0.15 | J | 0.19 | | 0.27 | | 0.28 | | 0.26 | | 0.26 | | 0.52 | | 0.45 | | 0.39 | |
| NICKEL | 34.3 | J | 30.6 | J | 49 | J | 49.9 | J | 53 | J | 47 | J | 75.1 | J | 56.1 | J | 37.8 | J | 44 | J | 38.2 | J |
| POTASSIUM | 2400 | J | 2080 | J | 1830 | J | 1970 | J | 1890 | J | 2460 | J | 2140 | J | 2370 | J | 1290 | J | 1740 | J | 1370 | J |
| SELENIUM | 1.8 | J | 2.1 | J | 1.2 | J | 0.93 | J | 0.97 | J | 1.1 | J | 2 | J | 1.1 | J | 1.3 | J | 1.4 | J | 1.4 | J |
| SILVER | 1.3 | J | 1.3 | J | 2.4 | | 2.4 | | 3.3 | | 2.6 | | 2.7 | | 2.8 | | 1.8 | | 2.1 | | 2.3 | |
| SODIUM | 864 | UJ | 1080 | UJ | 799 | UJ | 871 | UJ | 933 | UJ | 998 | UJ | 858 | UJ | 960 | UJ | 843 | UJ | 880 | UJ | 821 | UJ |
| THALLIUM | 4.3 | U | 5.4 | U | 4 | U | 4.4 | U | 4.7 | U | 5 | U | 4.3 | U | 4.8 | U | 4.2 | U | 4.4 | U | 4.1 | U |
| VANADIUM | 32.7 | J | 28.5 | J | 39.4 | J | 40.2 | J | 43.6 | J | 44.8 | J | 43.9 | J | 45.1 | J | 34.6 | J | 38.9 | J | 36.5 | J |
| ZINC | 314 | J | 421 | J | 780 | J | 782 | J | 1020 | J | 840 | J | 961 | J | 964 | J | 820 | J | 875 | J | 654 | J |
| CYANIDE | 0.86 | U | 1.1 | U | 1.4 | | 1.7 | | 1.5 | | 1.5 | | 1.3 | | 1.5 | | 1.4 | | 2.4 | | 1.1 | |

NOTES: 1 J Indicates concentration is estimated
2 UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
3 R Indicates data rejected and unusable for any purpose

TABLE 5 continued
Acme Steel
Sediment and Waste Samples
TCL Metals Analysis Results in mg/Kg

| Sampling Location : | X219 | | X316 | | X317 | | X318 | | X319 | | X320 | | X321 | | X322 | | X323 | | X324 | | X325 | |
|---------------------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | Matrix : | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Units : | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM | 7490 | J | 7000 | J | 7310 | J | 3300 | J | 6580 | J | 1630 | J | 16600 | J | 5890 | J | 3470 | J | 7340 | J | 1960 | J |
| ANTIMONY | 1.2 | J | 0.51 | J | 0.73 | J- | 0.85 | J- | 1.5 | J- | 0.36 | J- | 0.78 | J- | 0.71 | J- | 0.92 | J- | 0.61 | J- | 0.45 | J- |
| ARSENIC | 9.1 | J | 7.9 | J | 5.8 | J- | 6.5 | J- | 17.1 | J- | 3.8 | J- | 6.6 | J- | 8.4 | J- | 10 | J- | 4.4 | J- | 3.4 | J- |
| BARIUM | 132 | J | 87.9 | J | 118 | J- | 68 | J- | 46.6 | J- | 46.2 | J- | 222 | J- | 345 | J- | 70.5 | J- | 119 | J- | 44.2 | J- |
| BERYLLIUM | 1.5 | | 1 | J- | 1.6 | J- | 0.86 | UJ | 1.1 | J- | 0.65 | UJ | 3.4 | J- | 1.6 | J- | 0.64 | UJ | 1.5 | J- | 0.58 | UJ |
| CADMIUM | 0.53 | J | 1.1 | J | 0.44 | J- | 0.83 | J- | 2.9 | J- | 0.55 | J- | 0.56 | J- | 1.7 | J- | 0.28 | J- | 0.23 | J- | 0.14 | J- |
| CALCIUM | 68800 | J | 33600 | J | 37800 | J | 15200 | J | 17000 | J | 7580 | J | 71100 | J | 30300 | J | 34600 | J | 40500 | J | 6640 | J |
| CHROMIUM | 261 | J | 35.5 | J | 27.1 | J- | 21.4 | J- | 20 | J- | 34.3 | J- | 21.8 | J- | 18.3 | J- | 5.5 | J- | 16.2 | J- | 4.2 | J- |
| COBALT | 5.5 | J | 5.5 | J | 2.3 | J- | 1.9 | J- | 6.9 | J- | 1.8 | J- | 3.2 | J- | 2.7 | J- | 2.8 | J- | 2.9 | J- | 1.7 | J- |
| COPPER | 27 | J | 44.8 | J | 19.5 | J- | 30.7 | J- | 40.5 | J- | 26.5 | J- | 22.1 | J- | 32.5 | J- | 33.1 | J- | 12.8 | J- | 17.4 | J- |
| IRON | 87300 | J | 24300 | J | 14900 | J | 15200 | J | 44500 | J | 8170 | J | 24500 | J | 18500 | J | 16600 | J | 11700 | J | 5420 | J |
| LEAD | 49.7 | J | 100 | J | 454 | J | 116 | J | 167 | J | 53.7 | J | 104 | J | 198 | J | 70.4 | J | 26.4 | J | 35.6 | J |
| MAGNESIUM | 15500 | J | 12900 | J | 11200 | J | 5130 | J | 5070 | J | 2040 | J | 19500 | J | 7600 | J | 16300 | J | 7950 | J | 1930 | J |
| MANGANESE | 6630 | J | 929 | J | 461 | J | 360 | J | 1200 | J | 267 | J | 2830 | J | 491 | J | 406 | J | 1020 | J | 140 | J |
| MERCURY | 1.6 | | 15.8 | | 113 | | 84.6 | | 5.7 | | 2.8 | | 2.9 | | 5.1 | | 6 | | 0.37 | | 1.9 | |
| NICKEL | 22.3 | J | 25 | J | 6.2 | J- | 7.3 | J- | 27.7 | J- | 8 | J- | 7.9 | J- | 10.5 | J- | 7 | J- | 9 | J- | 4.4 | J- |
| POTASSIUM | 527 | J | 789 | J | 654 | UJ | 856 | UJ | 938 | UJ | 654 | UJ | 1310 | J- | 590 | UJ | 641 | UJ | 726 | J- | 581 | UJ |
| SELENIUM | 2.2 | J | 1.1 | J | 2.8 | J- | 4.8 | J- | 4.2 | J- | 1.9 | J- | 5.9 | J- | 3.6 | J- | 4.1 | J- | 3.1 | J- | 0.95 | J- |
| SILVER | 0.92 | J | 1.3 | J | 0.21 | J- | 1.7 | UJ | 0.78 | J- | 1.3 | UJ | 12.3 | UJ | 1.2 | UJ | 1.3 | UJ | 1.1 | UJ | 1.2 | UJ |
| SODIUM | 592 | UJ | 742 | UJ | 541 | J | 347 | J | 334 | J | 206 | J | 956 | J | 453 | J | 286 | J | 436 | J | 156 | J |
| THALLIUM | 3 | U | 3.7 | U | 3.3 | UJ | 4.3 | UJ | 1 | J- | 3.3 | UJ | 3.1 | UJ | 0.19 | J- | 3.2 | UJ | 2.8 | UJ | 2.9 | UJ |
| VANADIUM | 88.8 | J | 20.3 | J | 16 | J- | 18.9 | J- | 20 | J- | 14.9 | J- | 33.4 | J- | 12.1 | J- | 10.5 | J- | 12 | J- | 5 | J- |
| ZINC | 152 | J | 701 | J | 120 | J- | 390 | J- | 737 | J- | 108 | J- | 95.2 | J- | 231 | J- | 93.8 | J- | 40.8 | J- | 33.7 | J- |
| CYANIDE | 6.4 | | 6.4 | | 231 | | 172 | | 2.8 | | 14.9 | | 3.2 | | 4.9 | | 2.1 | | 3.3 | | 14 | |

NOTES: 1 J Indicates concentration is estimated
2 UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
3 R Indicates data rejected and unusable for any purpose

TABLE 5 continued
Acme Steel
Sediment and Waste Samples
TCL Metals Analysis Results in mg/Kg

| Sampling Location : | X326 | | X327 | | X328 | | X329 | | X330 | |
|---------------------|----------|------|--------|------|--------|------|--------|------|--------|------|
| | Sediment | | Waste | | Waste | | Waste | | Waste | |
| Matrix : | mg/Kg | | mg/Kg | | mg/Kg | | mg/Kg | | mg/Kg | |
| Units : | mg/Kg | | mg/Kg | | mg/Kg | | mg/Kg | | mg/Kg | |
| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM | 760 | J | 10400 | J | 612 | J | 4090 | J | 4460 | J |
| ANTIMONY | 0.31 | J- | 1 | J- | 6.6 | R | 2.6 | J- | 0.34 | J- |
| ARSENIC | 3.1 | J- | 10.8 | J- | 2.5 | J- | 18.4 | J- | 8.8 | J- |
| BARIUM | 19.2 | J- | 119 | J- | 21.2 | J- | 97.4 | J- | 128 | J- |
| BERYLLIUM | 0.58 | UJ | 1.7 | J- | 0.55 | UJ | 1 | J- | 0.57 | UJ |
| CADMIUM | 0.089 | J- | 0.68 | J- | 0.055 | J- | 0.5 | J- | 0.16 | J- |
| CALCIUM | 2640 | J | 51500 | J | 4210 | J | 13300 | J | 9860 | J |
| CHROMIUM | 3.4 | J- | 11.7 | J- | 2.9 | J- | 8.4 | J- | 6.4 | J- |
| COBALT | 0.86 | J- | 4.8 | J- | 2.1 | J- | 5.3 | J- | 4.1 | J- |
| COPPER | 5.8 | J- | 47.8 | J- | 6.4 | J- | 33.1 | J- | 23.2 | J- |
| IRON | 4800 | J | 20500 | J | 2060 | J | 12800 | J | 11500 | J |
| LEAD | 18 | J | 144 | J | 4.6 | J | 62.4 | J | 11.9 | J |
| MAGNESIUM | 578 | UJ | 5670 | J | 2000 | J | 5270 | J | 2580 | J |
| MANGANESE | 101 | J | 339 | J | 51.3 | J | 297 | J | 171 | J |
| MERCURY | 0.98 | | 0.93 | | 0.18 | J- | 52.2 | | 0.25 | J- |
| NICKEL | 3.4 | J- | 12.8 | J- | 6.5 | J- | 13.2 | J- | 8.8 | J- |
| POTASSIUM | 578 | UJ | 1450 | J- | 552 | UJ | 604 | UJ | 902 | J- |
| SELENIUM | 0.96 | J- | 3.6 | J- | 0.7 | J- | 1.3 | J- | 1.3 | J- |
| SILVER | 1.2 | UJ | 5.1 | UJ | 1.1 | UJ | 1.2 | UJ | 1.1 | UJ |
| SODIUM | 152 | J | 639 | J | 126 | J | 298 | J | 339 | J |
| THALLIUM | 2.9 | UJ | 0.34 | J- | 2.8 | UJ | 0.37 | J- | 2.9 | UJ |
| VANADIUM | 3.8 | J- | 23.9 | J- | 10.3 | J- | 13.4 | J- | 12.4 | J- |
| ZINC | 24.6 | J- | 164 | J- | 21.9 | J- | 112 | J- | 20.6 | J- |
| CYANIDE | 0.96 | | 0.94 | | 1.7 | | 3.5 | | 1.2 | |

- NOTES:
- 1 J Indicates concentration is estimated
 - 2 UJ The analyte was analyzed for, but not detected. The reported qu
 - 3 R Indicates data rejected and unusable for any purpose

**Table 6
Sample Information**

| Sample | Type | Sample / Location Description | Analysis * |
|---------------|-------------|--|-------------------------|
| X221 | Sediment | Collected from Indian Ridge Marsh approximately 1,400 feet south of the culvert draining the southwest corner of the Coke Plant. Sampling location approximately 35 feet east of railroad tracks. Water at location is approximately 18 – 24” deep. Sample X221 collected from 12 – 18” beneath sediment surface . Sampled soft black silt with gray hue , resting on top of stiff layer assumed to be more clayey. No chemical odor noted. Sampled with stainless steel auger and trowel. | TM, VOC, SVOC, PEST/PCB |
| X222 | Sediment | Collected from Indian Ridge Marsh approximately 630 feet south of the culvert draining the southwest corner of the Coke Plant. Sampling location approximately 40 feet east of railroad tracks. Water at location is approximately 18” deep. Sample X222 collected from 6 - 12” beneath sediment surface . Sampled soft to medium black silt with low percentage sand , resting on top of stiff layer assumed to be more clayey. No chemical odor noted. Sampled with stainless steel auger and trowel. | TM, VOC, SVOC, PEST/PCB |
| X223 | Sediment | Sediment sample X223 was collected from ditch approximately 8 feet south of the culvert draining the southwest corner of the Coke Plant. Culvert runs north and south beneath western terminus of 116 th Street. Sampling location approximately 40 feet east of railroad tracks. Approximately 6” of water ponded at location. Sample X223 collected from 6 - 12” beneath sediment surface . Sample consisted of soft to medium black silt with low percentage sand . Sample had strong natural organic smell. Sampled with stainless steel auger and trowel. Vegetation in area was sparse but some roots noted in sediment. | TM, VOC, SVOC, PEST/PCB |
| X224 | Sediment | Sediment sample X224 intended to represent sediments prior to where surface water drains into north side of the culvert draining the southwest corner of the Coke Plant. Culvert runs north and south beneath western terminus of 116 th Street. Recently it appears that a truckload of railroad ballast had been dumped in the area covering the north opening of the culvert. Sampling location approximately 20 feet north of approximate location of culvert opening. Rudimentary erosion control consisting of telephone poles and used tires had been constructed decades earlier in apparent attempt to keep waste material from eroding off the site. Sample X224 collected on the east side wall of the ditch from 5 - 10” beneath sediment surface . Sampled contained black loam with slag fines . Sampled with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |
| X225 | Sediment | Sediment sample X225 collected from the eastern opening of culvert running westward beneath the railroad tracks and into surface water feeding Big Marsh. Sample collected from 4” beneath the sediment surface of sediments accumulated inside the opening of the culvert. Material sampled was black loam with roots . Sample collected with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |

| Sample | Type | Sample / Location Description | Analysis * |
|--------|----------|--|-------------------------|
| X226 | Sediment | Sediment sample X226 collected from a low-lying area adjacent to the ditch running north and south along the western border of the Coke Plant property. The ditch is much less defined in this area and becomes more of a depression. Sample collected approximately 6 feet west of the fence surrounding the facility. Sample collected from 12" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown silty loam with small amount of roots. | TM, VOC, SVOC, PEST/PCB |
| X227 | Sediment | Sample X227 collected at the northwestern corner of the Coke Plant within the surface water drainage route flowing southward along the property's western edge. Location intended to represent conditions within the drainage route prior to impacts from the facility. Sample collected from low-lying area west of the facility fence and approximately 60 feet east of the railroad tracks. Sample collected from 3 - 8" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown loam with low percentage sand. Roots present in material sampled. No slag or site impacts noted. Wetland species noted in immediate vicinity. | TM, VOC, SVOC, PEST/PCB |
| X228 | Sediment | Sample X228 collected from low-lying area north of the Coke Plant's northern boundary within the surface water drainage route flowing southward along the property's western edge. Location intended to represent background conditions. Sample collected from low-lying area on the western edge of the wetland located here that appears to drain southward. Sample collected from 3" below ground surface with a stainless-steel trowel. Material sampled was black/dark brown loam with low percentage sand. Roots present in material sampled. No slag or site impacts noted. Phragmites/wetland species to east noted in immediate vicinity. Railroad ballast, trees and some slag located to the west of sampling location. | TM, VOC, SVOC, PEST/PCB |
| X230 | Sediment | Duplicate of X224 | TM, VOC, SVOC, PEST/PCB |
| X331 | Waste | Waste sample X331 collected in west-central portion of site at the beginning of drainageway that once flowed south and then off-site into Indian Ridge Marsh. Sample area is covered by phragmites growing out of slag fines and cinders with some loam. Sample collected at the base of a concrete wall defining the western edge of the drainageway from 0 - 3" BGS. Material sampled was cinders and possibly slag fines mixed with low percentage of dark brown/black loam. Collected with stainless steel trowel. | TM, VOC, SVOC, PEST/PCB |
| X332 | Waste | Waste sample location X332 collected in south-central portion of site where high concentrations of SVOCs identified in previous sampling events. Surface of site in the area covered with tar spots, slag pieces and associated fines. Sample X332 obtained with stainless steel trowel from 2 - 4" in black slag fines and small slag pieces. | TM, VOC, SVOC, PEST/PCB |
| X333 | Waste | Collected approximately 15' south of historic tank location in eastern portion of facility. Sample X333 obtained with stainless steel trowel from 0 - 6" in cinders and slag fines. | TM, VOC, SVOC, PEST/PCB |

* TM - Total Metals
VOC - Volatile Organic Compounds
SVOC – Semi-volatile Organic Compounds
PEST/PCB – Pesticides and Polychlorinated Biphenyl Compounds

TABLE 7
Acme Steel Coke Plant
Site Reassessment
Sediment and Waste Analytical Results
Volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X221 Sediment ug/Kg | | X222 Sediment ug/Kg | | X223 Sediment ug/Kg | | X224 Sediment ug/Kg | | X225 Sediment ug/Kg | | X226 Sediment ug/Kg | | X227 Sediment ug/Kg | | X228 Sediment ug/Kg | | X230 Sediment ug/Kg | | X331 Waste ug/Kg | | X332 Waste ug/Kg | | X333 Waste ug/Kg | |
|---------------------------------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|------------------|------|------------------|------|------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,1,1-Trichloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 2.5 | J |
| 1,1,2,2-Tetrachloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,1,2-Trichloro-1,2,2-Trifluoro | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,1,2-Trichloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,1-Dichloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| 1,1-Dichloroethene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | UJ |
| 1,2,3-Trichlorobenzene | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 1,2,4-Trichlorobenzene | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 1,2-Dibromo-3-chloropropan | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 1,2-Dibromoethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,2-Dichlorobenzene | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 1,2-Dichloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,2-Dichloropropane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| 1,3-Dichlorobenzene | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 1,4-Dichlorobenzene | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| 2-Butanone | 43 | J | 25 | J | 33 | J | 19 | U | 31 | U | 20 | U | 20 | U | 13 | U | 17 | U | 15 | U | 14 | U | 14 | U |
| 2-Hexanone | 59 | UJ | 27 | U | 37 | UJ | 19 | UJ | 42 | U | 20 | UJ | 20 | U | 13 | U | 23 | J+ | 15 | UJ | 14 | UJ | 14 | UJ |
| 4-Methyl-2-pentanone | 59 | UJ | 27 | U | 37 | UJ | 19 | UJ | 31 | U | 20 | UJ | 20 | U | 13 | U | 17 | UJ | 15 | UJ | 14 | UJ | 14 | UJ |
| Acetone | 120 | J | 55 | J | 82 | J | 19 | U | 26 | J | 19 | J | 20 | U | 13 | U | 17 | U | 15 | U | 5.5 | J | 14 | U |
| Benzene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 11 | J+ | 4.1 | J+ |
| Bromochloromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| Bromodichloromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Bromoform | 30 | UJ | 14 | UJ | 19 | UJ | 9.3 | R | 16 | UJ | 9.8 | R | 9.9 | UJ | 6.4 | UJ | 8.7 | R | 7.4 | R | 7.2 | R | 7.1 | R |
| Bromomethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| Carbon disulfide | 36 | J | 17 | J | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 3.7 | J | 7.4 | U | 7.2 | U | 7.1 | U |
| Carbon tetrachloride | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Chlorobenzene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | UJ | 9.8 | UJ | 9.9 | UJ | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Chloroethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| Chloroform | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| Chloromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| cis-1,2-Dichloroethene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | UJ |
| cis-1,3-Dichloropropene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Cyclohexane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Dibromochloromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Dichlorodifluoromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |
| Ethylbenzene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Isopropylbenzene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| m, p-Xylene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Methyl acetate | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Methyl tert-butyl ether | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Methylcyclohexane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 5.4 | J+ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 6.5 | J+ | 3.3 | J+ |
| Methylene chloride | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| o-Xylene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Styrene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Tetrachloroethene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Toluene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 6.6 | J+ | 2 | J+ |
| trans-1,2-Dichloroethene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | UJ |
| trans-1,3-Dichloropropene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Trichloroethene | 30 | UJ | 14 | U | 19 | UJ | 9.3 | UJ | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | UJ | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Trichlorofluoromethane | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | UJ | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | UJ | 7.2 | UJ | 7.1 | UJ |
| Vinyl chloride | 30 | UJ | 14 | U | 19 | UJ | 9.3 | U | 16 | U | 9.8 | U | 9.9 | U | 6.4 | U | 8.7 | U | 7.4 | U | 7.2 | U | 7.1 | U |

NOTES: 1 J Indicates concentration is estimated
2 U The analyte was analyzed for, but not detected.
3 UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
4 R Indicates data rejected and unusable for any purpose

TABLE 8
Acme Steel Coke Plant
Sediment and Waste Analytical Results
Semi-volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X221 Sediment ug/Kg | | X222 Sediment ug/Kg | | X223 Sediment ug/Kg | | X224 Sediment ug/Kg | | X225 Sediment ug/Kg | | X226 Sediment ug/Kg | | X227 Sediment ug/Kg | | X228 Sediment ug/Kg | | X230 Sediment ug/Kg | | X331 Waste ug/Kg | | X332 Waste ug/Kg | | X333 Waste ug/Kg | |
|------------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,1'-Biphenyl | 660 | U | 440 | U | 260 | J | 1300 | U | 1600 | U | 160 | J | 1200 | U | 220 | U | 590 | J | 4700 | J | 700 | J | 170 | J |
| 1,2,4,5-Tetrachlorobenzene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 1,4-Dioxane | 260 | UJ | 170 | UJ | 780 | U | 500 | U | 640 | U | 460 | U | 470 | U | 86 | UJ | 490 | U | 6500 | U | 1600 | U | 400 | U |
| 2,2'-Oxybis(1-chloropropane) | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 2,3,4,6-Tetrachlorophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,4,5-Trichlorophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,4,6-Trichlorophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,4-Dichlorophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,4-Dimethylphenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,4-Dinitrophenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 2,4-Dinitrotoluene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2,6-Dinitrotoluene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2-Chloronaphthalene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2-Chlorophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2-Methylnaphthalene | 660 | U | 160 | J | 940 | J | 520 | J | 490 | J | 1000 | J | 720 | J | 220 | U | 2400 | | 14000 | J | 2700 | J | 840 | J |
| 2-Methylphenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 2-Nitroaniline | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 2-Nitrophenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 3,3'-Dichlorobenzidine | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 3-Methylphenol + 4-Methylp | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 3-Nitroaniline | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 4,6-Dinitro-2-methylphenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 4-Bromophenyl-phenylether | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 4-Chloro-3-methylphenol | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 4-Chloroaniline | 1300 | U | 860 | U | 630 | J | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 4-Chlorophenyl-phenyl ether | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| 4-Nitroaniline | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| 4-Nitrophenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Acenaphthene | 120 | J | 89 | J | 300 | J | 1300 | U | 250 | J | 290 | J | 280 | J | 220 | U | 550 | J | 4500 | J | 2700 | J | 520 | J |
| Acenaphthylene | 170 | J | 97 | J | 1300 | J | 470 | J | 1200 | J | 720 | J | 230 | J | 220 | U | 1100 | J | 1E+05 | | 9800 | | 1100 | |
| Acetophenone | 350 | J | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Anthracene | 240 | J | 170 | J | 1800 | J | 590 | J | 1400 | J | 900 | J | 970 | J | 220 | U | 2000 | | 1E+05 | | 13000 | | 3300 | |
| Atrazine | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Benzaldehyde | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Benzo(a)anthracene | 740 | | 490 | | 5400 | | 2900 | | 5900 | | 4000 | | 2700 | | 36 | J | 6800 | | 6E+05 | | 61000 | | 9500 | |
| Benzo(a)pyrene | 820 | | 620 | | 6100 | | 3100 | | 7800 | | 5900 | | 2700 | | 56 | J | 7900 | | 6E+05 | | 96000 | | 7900 | |
| Benzo(b)fluoranthene | 1300 | | 900 | | 9300 | | 4800 | | 14000 | | 8700 | | 3700 | | 83 | J | 9800 | | 8E+05 | | 1E+05 | | 11000 | |
| Benzo(g,h,i)perylene | 660 | U | 530 | | 4100 | | 2400 | | 5700 | | 4200 | | 1900 | | 220 | U | 4900 | | 4E+05 | | 53000 | | 3600 | |
| Benzo(k)fluoranthene | 460 | J | 310 | J | 3400 | | 1900 | | 18000 | | 2800 | | 1200 | | 27 | J | 3400 | | 2E+05 | | 36000 | | 4100 | |
| bis(2-Chloroethoxy)methane | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Bis(2-Chloroethyl) ether | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| bis(2-Ethylhexyl)phthalate | 170 | J | 79 | J | 630 | J | 1300 | U | 1600 | U | 130 | J | 140 | J | 220 | U | 440 | J | 2200 | J | 460 | J | 1000 | U |
| Butylbenzylphthalate | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Caprolactam | 1300 | UJ | 860 | UJ | 3800 | UJ | 2400 | UJ | 3200 | UJ | 2300 | UJ | 2300 | UJ | 420 | UJ | 2400 | UJ | 32000 | UJ | 8000 | UJ | 2000 | UJ |
| Carbazole | 1300 | U | 860 | U | 540 | J | 330 | J | 590 | J | 420 | J | 410 | J | 420 | U | 720 | J | 32000 | | 4300 | J | 1700 | J |

TABLE 8
Acme Steel Coke Plant
Sediment and Waste Analytical Results
Semi-volatile Organic Compounds (ug/Kg)

| Location Matrix Units | X221 Sediment ug/Kg | | X222 Sediment ug/Kg | | X223 Sediment ug/Kg | | X224 Sediment ug/Kg | | X225 Sediment ug/Kg | | X226 Sediment ug/Kg | | X227 Sediment ug/Kg | | X228 Sediment ug/Kg | | X230 Sediment ug/Kg | | X331 Waste ug/Kg | | X332 Waste ug/Kg | | X333 Waste ug/Kg | |
|-----------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chrysene | 970 | | 640 | | 6600 | | 3400 | | 9100 | | 5500 | | 3300 | | 59 | J | 7300 | | 6E+05 | | 61000 | | 9800 | |
| Dibenzo(a,h)anthracene | 660 | U | 440 | U | 2000 | U | 1300 | U | 2000 | | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Dibenzofuran | 120 | J | 130 | J | 790 | J | 270 | J | 430 | J | 480 | J | 410 | J | 220 | U | 1400 | | 27000 | | 3200 | J | 1300 | |
| Diethylphthalate | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Dimethylphthalate | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Di-n-butylphthalate | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Di-n-octylphthalate | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Fluoranthene | 1600 | | 970 | | 8600 | | 3800 | | 9500 | | 5000 | | 4800 | | 82 | J | 11000 | | 1E+06 | | 1E+05 | | 15000 | |
| Fluorene | 220 | J | 150 | J | 590 | J | 1300 | U | 190 | J | 260 | J | 340 | J | 220 | U | 610 | J | 24000 | | 3000 | J | 920 | J |
| Hexachlorobenzene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Hexachlorobutadiene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Hexachlorocyclo-pentadiene | 1300 | UJ | 860 | UJ | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Hexachloroethane | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Indeno(1,2,3-cd)pyrene | 590 | J | 510 | | 4400 | | 2500 | | 6400 | | 4400 | | 1900 | | 41 | J | 5000 | | 4E+05 | | 55000 | | 4500 | |
| Isophorone | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| Naphthalene | 120 | J | 210 | J | 1900 | J | 460 | J | 700 | J | 1000 | J | 530 | J | 220 | U | 4700 | | 79000 | | 12000 | | 1200 | |
| Nitrobenzene | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| N-Nitroso-di-n propylamine | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 1200 | U | 16000 | U | 4100 | U | 1000 | U |
| N-Nitrosodiphenylamine | 660 | U | 440 | U | 2000 | U | 1300 | U | 1600 | U | 1200 | U | 1200 | U | 220 | U | 340 | J | 16000 | U | 4100 | U | 1000 | U |
| Pentachlorophenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Phenanthrene | 630 | J | 490 | | 4300 | | 2600 | | 1700 | | 2700 | | 4500 | | 220 | U | 7700 | | 4E+05 | | 40000 | | 13000 | |
| Phenol | 1300 | U | 860 | U | 3800 | U | 2400 | U | 3200 | U | 2300 | U | 2300 | U | 420 | U | 2400 | U | 32000 | U | 8000 | U | 2000 | U |
| Pyrene | 1200 | | 760 | | 7700 | | 3600 | | 11000 | J | 5000 | | 4300 | | 74 | J | 8700 | | 9E+05 | | 95000 | | 16000 | |

- NOTES:
- 1 J Indicates concentration is estimated
 - 2 U The analyte was analyzed for, but not detected.
 - 3 UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - 4 R Indicates data rejected and unusable for any purpose

TABLE 9
Acme Steel Coke Plant
Site Reassessment
Sediment and Waste Analytical Results
Pesticide/PCB Compounds (ug/Kg)

| Location Matrix Units | X221 Sediment ug/Kg | | X222 Sediment ug/Kg | | X223 Sediment ug/Kg | | X224 Sediment ug/Kg | | X225 Sediment ug/Kg | | X226 Sediment ug/Kg | | X227 Sediment ug/Kg | | X228 Sediment ug/Kg | | X230 Sediment ug/Kg | | X331 Waste ug/Kg | | X332 Waste ug/Kg | | X333 Waste ug/Kg | |
|-----------------------------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Aroclor-1016 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1221 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1232 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1242 | 44 | J | 20 | J | 49 | J | 9.1 | J | 62 | U | 12 | J | 9.8 | J | 42 | U | 8.9 | J | 40 | U | 27 | J | 37 | J- |
| Aroclor-1248 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1254 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1260 | 130 | UJ | 85 | U | 49 | J | 29 | J | 15 | J | 31 | J | 18 | J | 42 | U | 27 | J | 40 | U | 29 | J | 23 | J- |
| Aroclor-1262 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| Aroclor-1268 | 130 | UJ | 85 | U | 78 | U | 49 | U | 62 | U | 45 | U | 46 | U | 42 | U | 47 | U | 40 | U | 39 | U | 40 | UJ |
| 4,4'-DDD | 50 | J | 260 | | 38 | | 3.2 | J | 1.5 | J+ | 0.71 | J | 4.7 | | 4.2 | U | 4.3 | J | 0.96 | J+ | 3.9 | R | 2.6 | J |
| 4,4'-DDE | 34 | J | 80 | | 25 | J | 43 | | 10 | J+ | 8.7 | J | 230 | | 0.52 | J | 41 | | 0.58 | J+ | 3.9 | R | 4.2 | J |
| 4,4'-DDT | 11 | J | 24 | | 30 | J | 72 | | 21 | J+ | 25 | | 210 | | 4.2 | U | 56 | | 8.3 | J+ | 3.9 | R | 20 | U |
| Aldrin | 5.5 | J | 0.96 | J | 3.3 | J | 0.86 | J | 3.2 | U | 2.3 | U | 2.4 | U | 2.1 | U | 0.28 | J | 0.35 | J+ | 0.52 | J- | 1.8 | J |
| alpha-BHC | 1.1 | J | 4.4 | U | 4.1 | U | 2.5 | U | 3.2 | U | 2.3 | U | 2.4 | U | 2.1 | U | 2.4 | U | 0.26 | J+ | 0.48 | J- | 10 | U |
| beta-BHC | 8.7 | J | 4.4 | U | 17 | J | 2.5 | U | 3.2 | U | 2.3 | U | 2.4 | U | 2.1 | U | 2.4 | U | 2.1 | U | 2 | R | 10 | U |
| cis-Chlordane | 6.6 | UJ | 4.4 | U | 5.2 | J | 0.9 | J | 3.2 | U | 1.8 | J | 2.4 | U | 0.59 | J | 2 | J | 3.6 | J+ | 2.8 | J- | 1.6 | J |
| delta-BHC | 3.4 | J | 0.61 | J | 1.7 | J | 0.38 | J | 3.2 | U | 0.47 | J | 0.32 | J | 0.84 | J | 0.41 | J | 1.9 | J+ | 2 | R | 1.4 | J |
| Dieldrin | 5.5 | J | 4.8 | J | 13 | J | 7.6 | J | 7.1 | J+ | 9.8 | J | 6.3 | J | 1.3 | J | 7.9 | J | 1.1 | J+ | 0.48 | J- | 1.7 | J |
| Endosulfan I | 1.9 | J | 4.4 | U | 2 | J | 0.51 | J | 3.2 | U | 0.67 | J | 0.37 | J | 0.54 | J | 1.3 | J | 1.2 | J+ | 1 | J- | 8.1 | J |
| Endosulfan II | 13 | UJ | 8.5 | U | 7.8 | U | 4.9 | U | 14 | J+ | 4.5 | U | 4.6 | U | 4.2 | U | 2.7 | J | 4 | U | 12 | J- | 42 | J |
| Endosulfan sulfate | 13 | UJ | 8.5 | U | 7.8 | U | 1.9 | J | 2.7 | J+ | 3.4 | J | 5.5 | J | 4.2 | U | 1.8 | J | 4.9 | J+ | 0.68 | J- | 2.3 | J |
| Endrin | 0.9 | J | 8.5 | U | 2.6 | J | 0.52 | J | 2.3 | J+ | 1 | J | 1.3 | J | 4.2 | U | 0.92 | J | 0.5 | J+ | 1.5 | J- | 8.1 | J |
| Endrin aldehyde | 13 | UJ | 1.3 | J | 7.6 | J | 1 | J | 2.9 | J+ | 1.5 | J | 8.1 | | 4.2 | U | 9.7 | | 1.4 | J+ | 1.1 | J- | 4.2 | J |
| Endrin ketone | 13 | UJ | 2.5 | J | 2.8 | J | 0.76 | J | 43 | J+ | 2.4 | J | 0.85 | J | 4.2 | U | 5.4 | J | 16 | J+ | 100 | | 280 | J |
| gamma-BHC (Lindane) | 3.1 | J | 4.4 | U | 4 | U | 8.6 | | 7.9 | J+ | 15 | J | 6 | J | 2.1 | U | 8.3 | J | 2.9 | J+ | 2 | R | 10 | U |
| Heptachlor | 5.5 | J | 4.4 | U | 6.3 | J | 1.8 | J | 3.2 | U | 1.5 | J | 1.3 | J | 2.1 | U | 1.8 | J | 4.4 | J+ | 2.5 | J- | 8.9 | J |
| Heptachlor epoxide | 7.1 | J | 4.4 | U | 2.8 | J | 0.86 | J | 0.69 | J+ | 1.5 | J | 0.39 | J | 2.1 | U | 0.83 | J | 2.1 | J+ | 0.95 | J- | 4.8 | J |
| Methoxychlor | 66 | UJ | 44 | U | 120 | | 110 | | 150 | J+ | 170 | | 65 | | 2.6 | J | 130 | | 130 | J+ | 440 | | 2800 | |
| Toxaphene | 660 | UJ | 440 | U | 400 | U | 250 | U | 320 | U | 230 | U | 240 | U | 210 | U | 240 | U | 210 | U | 200 | R | 1000 | U |
| trans-Chlordane | 28 | J | 24 | J | 6.2 | J | 0.49 | J | 3.2 | U | 0.5 | J | 2.4 | U | 0.67 | J | 0.41 | J | 16 | J+ | 2 | R | 1.4 | J |

NOTES: 1 J Indicates concentration is estimated
2 U The analyte was analyzed for, but not detected.
3 UJ The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
4 R Indicates data rejected and unusable for any purpose

TABLE 10
Acme Steel
Site Reassessment
Sediment and Waste Samples
TCL Metals Analysis Results in mg/Kg

| Sampling Location : Matrix : Units : | X221 Sediment mg/Kg | | X222 Sediment mg/Kg | | X223 Sediment mg/Kg | | X224 Sediment mg/Kg | | X225 Sediment mg/Kg | | X226 Sediment mg/Kg | | X227 Sediment mg/Kg | | X228 Sediment mg/Kg | | X230 Sediment mg/Kg | | X331 Waste mg/Kg | | X332 Waste mg/Kg | | X333 Waste mg/Kg | |
|--|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|------------------|------|------------------|------|------------------|------|
| | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| ALUMINUM | 11500 | | 6480 | | 8750 | | 7030 | | 3150 | | 2320 | | 4060 | | 3980 | | 6470 | | 4220 | | 3200 | | 3660 | |
| ANTIMONY | 12 | UJ | 17.3 | UJ | 10.8 | UJ | 9.2 | UJ | 11.1 | UJ | 7.4 | UJ | 7.4 | UJ | 6.8 | UJ | 8.1 | UJ | 5.9 | UJ | 6.7 | UJ | 6.1 | UJ |
| ARSENIC | 12.8 | | 5.7 | | 14.5 | | 12.7 | | 26.8 | | 8.7 | | 15.6 | | 8.3 | | 6.6 | | 9.7 | | 4.1 | | 7.5 | |
| BARIUM | 107 | | 71.1 | | 179 | | 179 | | 115 | | 84 | | 106 | | 90.4 | | 83.1 | | 112 | | 63.6 | | 79.9 | |
| BERYLLIUM | 0.69 | J | 0.45 | J | 1.3 | | 1.5 | | 0.56 | J | 0.98 | | 1.1 | | 0.59 | | 0.76 | | 0.94 | | 0.85 | | 0.91 | |
| CADMIUM | 2.3 | | 2.2 | | 4.9 | | 2.1 | | 4 | | 2.8 | | 5.9 | | 3.2 | | 1.3 | | 2.6 | | 1.3 | | 3 | |
| CALCIUM | 65500 | J | 76100 | J | 38500 | J | 23200 | J | 36400 | J | 9540 | J | 8190 | J | 12600 | J | 8180 | J | 14700 | J | 10500 | J | 7650 | J |
| CHROMIUM | 28.7 | | 24.3 | | 101 | | 47 | | 39.7 | | 21.9 | | 35.7 | | 15.3 | | 20.7 | | 24.7 | | 12 | | 24.1 | |
| COBALT | 9.7 | J | 6.9 | J | 9.4 | | 4.4 | J | 9.6 | | 4.7 | J | 6.3 | | 4.5 | J | 3.4 | J | 4.3 | J | 2.7 | J | 2.7 | J |
| COPPER | 39.5 | | 29.2 | | 52.2 | | 50.1 | | 79.5 | | 84 | | 60.5 | | 94 | | 21.7 | | 73.2 | | 27.2 | | 21.8 | |
| IRON | 27800 | | 21200 | | 66100 | | 22600 | | 57200 | | 23100 | | 71600 | | 43700 | | 15000 | | 33400 | | 10900 | | 38400 | |
| LEAD | 71.8 | | 73.3 | | 180 | | 126 | | 123 | | 125 | | 236 | | 102 | | 52 | | 111 | | 60.1 | | 246 | |
| MAGNESIUM | 16600 | J | 22000 | J | 7780 | J | 3510 | J | 13300 | J | 3400 | J | 2550 | J | 3990 | J | 1890 | J | 3520 | J | 2350 | J | 1930 | J |
| MANGANESE | 677 | J | 811 | J | 3080 | J | 2310 | J | 1190 | J | 581 | J | 984 | J | 538 | J | 575 | J | 1070 | J | 258 | J | 518 | J |
| NICKEL | 27.2 | | 18 | | 22.4 | | 14.2 | | 22.8 | | 20.1 | | 22.8 | | 15 | | 10.7 | | 14.4 | | 10.5 | | 9.6 | |
| POTASSIUM | 3710 | | 1730 | | 987 | | 766 | U | 927 | U | 620 | U | 619 | U | 567 | U | 673 | U | 495 | | 561 | U | 509 | U |
| SELENIUM | 0.73 | J | 1.6 | J | 2.4 | J | 2.9 | J | 2.3 | J | 1.9 | J | 0.48 | J | 0.39 | J | 1 | J | 1.3 | J | 1.1 | J | 2.8 | J |
| SILVER | 0.64 | J | 0.33 | J | 0.9 | J | 0.44 | J | 0.82 | J | 0.46 | J | 0.98 | J | 0.53 | J | 0.23 | J | 0.49 | J | 0.15 | J | 0.45 | J |
| SODIUM | 1100 | | 563 | J | 487 | J | 271 | J | 242 | J | 97.3 | J | 184 | J | 93.7 | J | 154 | J | 229 | J | 144 | J | 149 | J |
| THALLIUM | 5 | U | 7.2 | U | 4.5 | U | 3.8 | U | 4.6 | U | 3.1 | U | 3.1 | R | 2.8 | U | 3.4 | U | 2.4 | U | 2.8 | U | 2.5 | U |
| VANADIUM | 28.5 | | 20.9 | | 57.1 | | 25.1 | | 19.9 | | 24.9 | | 22.9 | | 18.6 | | 24.3 | | 17.5 | | 10.1 | | 12.8 | |
| ZINC | 294 | | 320 | | 1010 | | 524 | | 462 | | 551 | | 916 | | 251 | | 209 | | 373 | | 174 | | 306 | |
| CYANIDE | 1.3 | U | 1.3 | J+ | 17.9 | | 7.3 | | 1.5 | J+ | 1.2 | | 3.7 | | 1.4 | | 6.1 | | 0.53 | U | 0.73 | J+ | 47.1 | |
| MERCURY | 0.15 | J | 0.089 | J | 0.51 | | 0.3 | | 0.16 | J+ | 0.16 | | 0.25 | | 0.046 | J | 0.36 | | 0.068 | J | 1.2 | | 5.7 | |

NOTES: 1 J Indicates concentration is estimated
2 U Indicates analyte undetected by lab equipment
3 R Indicates data rejected and unusable for any purpose

Appendix A

Calumet Hydrologic Master Plan (Select Portions)

**CALUMET AREA HYDROLOGIC
MASTER PLAN (HMP)
EXECUTIVE SUMMARY
(VOLUME I)**



**CALUMET AREA
CITY OF CHICAGO, COOK COUNTY, ILLINOIS**

(DATA AND REFERENCES ARE ACCURATE UP TO JULY 2004)

PREPARED FOR:

CHICAGO DEPARTMENT OF ENVIRONMENT
30 NORTH LASALLE STREET – SUITE 2500
CHICAGO, ILLINOIS 60602

PREPARED BY:

V3 COMPANIES, LTD.
120 NORTH LASALLE STREET
CHICAGO, ILLINOIS 60602
312.419.1985

FUNDING PROVIDED BY:

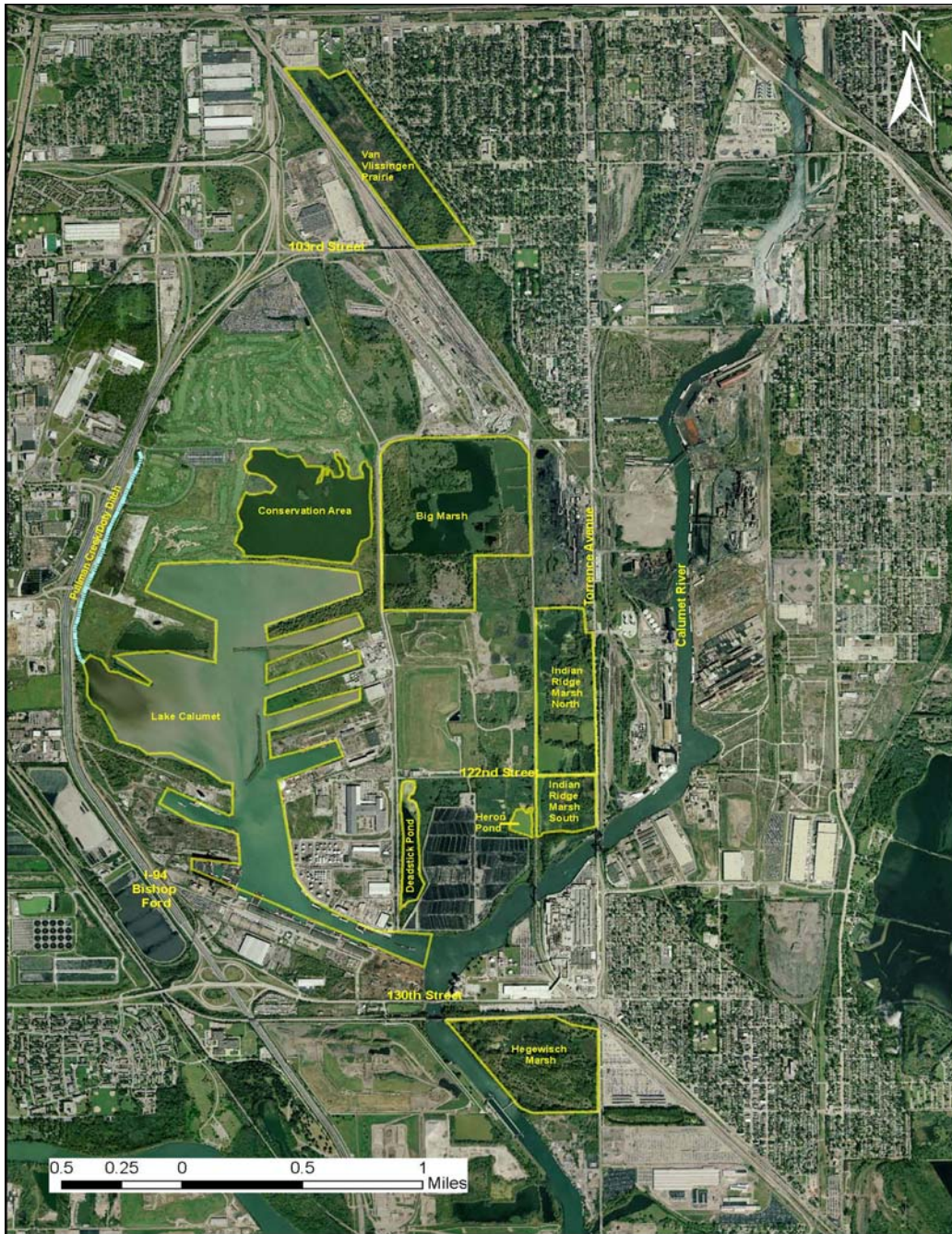
CHICAGO DEPARTMENT OF ENVIRONMENT,
ILLINOIS DEPARTMENT OF NATURAL RESOURCES C2000 PROGRAM,
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT,
AND A SUPPLEMENTAL ENVIRONMENTAL PROJECT WITH CHICAGO SPECIALTIES.

AUGUST 2006

HRS Page Number 72

2. STUDY AREA SUMMARIES

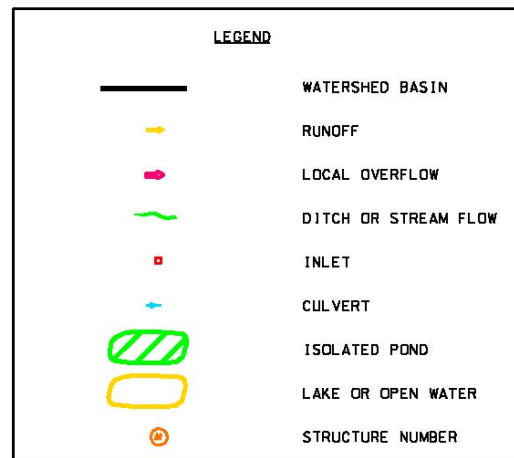
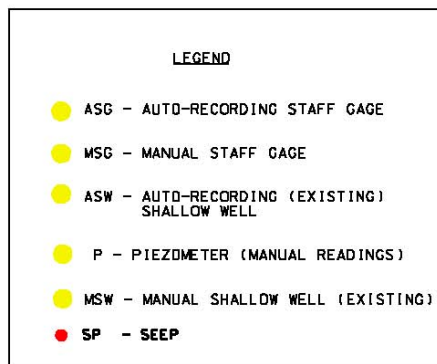
Site summaries are provided that illustrate the findings and general conclusions on a site by site basis for the HMP. Exhibits 1 and 2 are provided at the end of report, and reference the EMA sites of the HMP. Exhibit 1 provides an overview aerial identifying all of the sites within this study. Exhibit 2 illustrates the watershed and sub-watershed atlas of the Calumet area. Lastly, Exhibit 3 illustrates the control structure and monitoring station locations referenced within this report. All water body acreages referred to in this volume were calculated using GIS and all site specific aerial photographs used within Volume I are dated 2004.



2.1 Big Marsh

Big Marsh is currently owned by Waste Management and is a significant hydrologic component of the Calumet area (Exhibit 1). Its drainage size is the second largest of the water bodies of the HMP study at 626 acres (Exhibit 2). In addition, the area of Big Marsh is approximately 265 acres making it the second largest EMA of the HMP study. There are eight main pools at Big Marsh, which are separated by earthen berms or narrows. Big Marsh drains directly into Lake Calumet underneath Stony Island Avenue via an outlet control structure.

V3's engineering investigation determined that there are three control structures that influence the hydrologic behavior at Big Marsh. From the north, Big Marsh is fed by Norfolk Southern Railroad Marsh. The connection structure is a 24" diameter non-adjustable culvert that conveys into a stream channel then into the Marsh itself (Figure 3; Structure #8; Vols II, IV). Resulting from stage-discharge modeling (Figure 2), structure #8 has an acceptable discharge capacity for storm events and V3 suggests that no improvements need to be made to this control; however an annual maintenance program should exist.



*Refer to legend for all site specific maps.

The final control structure is #14 and is a single non-adjustable 12" diameter culvert that drains 62 acres and regulates discharge from the Coke Plant to Big Marsh (Figure 7). Stage discharge relationships were developed and determined that the structure functions as designed and has an acceptable discharge capacity, the only recommendation for structure # 14 is to designate an annual maintenance program of the culvert (Volume IV).

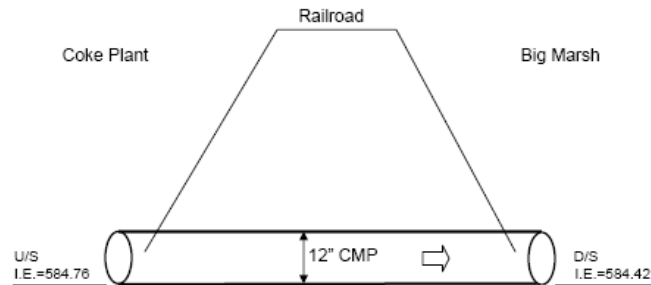


Figure 7: Structure #14, Hydraulic Geometry

As detailed in Volume V (*Water Level Monitoring, Groundwater Seeps and Water Quality Monitoring Report*), V3 *et al.* monitored water levels and water quality at Big Marsh for a one year period. The water elevation data shows that the main pool at Big Marsh (ASG 2) is usually over a foot higher than the water at the outlet (ASG 3; Figure 8). During precipitation events, the outlet location backs up, taking significant time to drawdown. The East pools (MSG 1) of Big Marsh are always at a higher elevation than the main pool and outlet. Groundwater represented by ASW 2 (Figure 8) is responsive to precipitation events indicating a significant gross permeability of the aquifer medium, additionally groundwater elevations to the east of the main pool were always at least a foot higher than the Big Marsh main pool indicating groundwater feeds the marsh and flow is from the east. Some constituents of water quality at the Big Marsh outlet were poor. Dissolved oxygen at the Big Marsh outlet was consistently much lower than the remaining marsh (Figure 9), and was recorded at levels of concern for aquatic health (Figure 9). The oxidation/reduction potential of the water at the outlet also recorded reducing conditions for most of the year (Figure 10). V3 recommends a further detailed site specific water quality and groundwater investigation; however, this work should be conducted on an as needed basis when ecological objectives of Big Marsh have been defined.

2.2 Indian Ridge Marsh North

Indian Ridge Marsh North (IRM North) is approximately a 114 acre parcel consisting of several pools separated by earth berms or narrow corridor channels. Its location is north of 122nd street and west of Torrence Avenue; the western boundary of Indian Ridge Marsh North is the Norfolk/Southern Railroad tracks (Exhibit 1). The drainage size of Indian Ridge Marsh North is 185 acres at its outlet, which includes an inlet from the adjacent coke plant. The marsh drains into Indian Ridge Marsh South under 122nd street via an outlet control structure (Exhibit 2).

V3's engineering investigation determined that there are two control structures that influence the hydrologic behavior at Indian Ridge Marsh North. From the north a culvert drains areas of the Coke plant into the marsh. The connection consists of a 36" non-adjustable culvert that conveys approximately 62 acres of drainage area into Indian Ridge Marsh North (Figure 11; Structure #7; Vols II, IV). A detailed drainage investigation of the coke plant was not conducted and it is unknown which areas of the coke plant drain to the culvert. Stage/discharge modeling indicated that this structure has an acceptable discharge capacity for storm events, and no improvement recommendations are made except for the implementation of an annual maintenance program. It is unknown whether this culvert is managed by the owners of the adjacent coke plant.

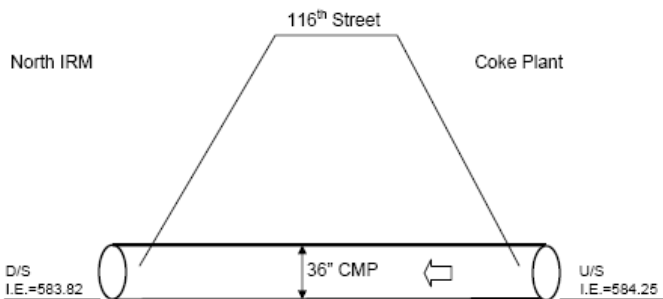
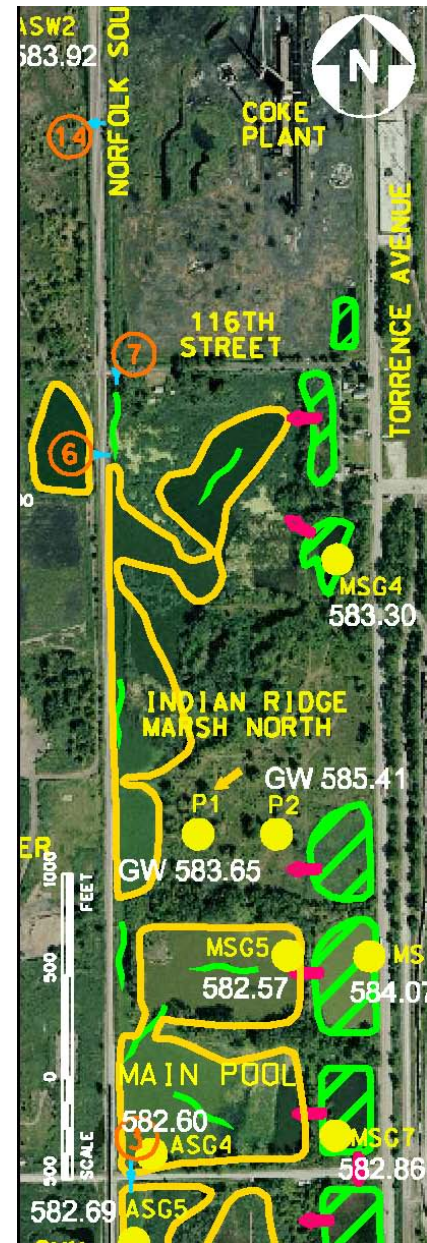


Figure 11: Structure #7, Hydraulic Geometry



The second control structure is the outlet which is an inlet box and attached 24" culvert (Figure 12; Structure #3, Vols II, and IV). The box rim sets the normal water level for the primary pool of Indian Ridge Marsh North. Through hydrologic modeling, V3 determined that this structure safely releases storm volumes; however, improvement recommendations are made due to the structure's tendency to become blocked, which restricts flows and influences water elevations (Volume IV). In 2001, Harza Inc. repaired the outlet and it was apparent that beaver levelers may be required at this location. In addition, the culvert pipe is believed to be from the 1920's and may be rusted and partially collapsed. V3 recommends inspecting and rehabilitating the

Appendix B

Laboratory Analysis and Chain of Custody Forms

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP2

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-01

% Solids: 34.6

Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.0 | J | 11/02/2018 | 0958 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-02
 % Solids: 33.6 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.3 | | 11/02/2018 | 0959 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP4

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-03

% Solids: 48.5

Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 17.9 | | 11/02/2018 | 1000 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP5

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-04
 % Solids: 65.3 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|--------------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 8.1 7.3 | | 11/02/2018 | 1001 |

NOTE: Hardness (total) is reported in mg/L

MA 2/8/19

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP6

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-05
 % Solids: 42.8 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.5 | | 11/02/2018 | 1005 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP7

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-06

% Solids: 76.1

Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.2 | | 11/02/2018 | 1006 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MESNP8

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-07
 % Solids: 70.8 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 3.7 | | 11/02/2018 | 1007 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP9

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-08
 % Solids: 79.5 Date Received: 10/24/2018
 Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.4 | | 11/02/2018 | 1008 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESN00

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-09
 % Solids: 66.9 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 6.1 | | 11/02/2018 | 1009 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESN01

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-10
 % Solids: 78.6 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 0.53 | | 11/02/2018 | 1011 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ2

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-11
 % Solids: 82.5 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 0.73 | | 11/02/2018 | 1012 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-12
 % Solids: 83.2 Date Received: 10/24/2018
 Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 47.1 | D | 11/02/2018 | 1014 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 3-IN
BLANKS

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Preparation Blank Matrix: Soil
 Preparation Blank Concentration Units (µg/L, mg/L, mg/kg dry weight, or µg): mg/kg
 Analytical method: Spectrophotometry Preparation Batch: SJ30010
 Run Batch: BK80508C110218A Preparation Method: Midi-distillation Soil

| Analyte | Initial Calibration Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | Preparation Blank/Leachate Extraction Blank | | | |
|---------|----------------------------------|---|-------------------------------------|---|-----------|---|---|---|-----------|---|
| | ID: ICB01 | Q | ID: CCB01 | Q | ID: CCB02 | Q | ID: | Q | ID: PBS01 | Q |
| Cyanide | -2.2 | J | 10.0 | U | 10.0 | U | | | 0.24 | J |

NOTE: Hardness (total) is reported in mg/L

FORM 5A-IN
MATRIX SPIKE SAMPLE RECOVERY

MESNP5S

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029

Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2

Matrix: Soil Analytical Method: Spectrophotometry

% Solids: 65.3

Concentration Units (µg/L, mg/L or mg/kg dry weight): mg/kg

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | Sample Result (SR) | Spike Added (SA) | %R | Q |
|---------|------------------|----------------------------|-----------------------|------------------|-----|---|
| Cyanide | 75-125 | 15.1 14.1 | 8.1 7.3 | 7.70 | 100 | |

EPA SAMPLE NO.

FORM 6-IN
DUPLICATES

MESNP5D

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029

Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2

Matrix: Soil Analytical Method: Spectrophotometry

% Solids: 65.3

Concentration Units (µg/L, mg/L, or mg/kg dry weight): mg/Kg

| Analyte | Control Limit | Sample (S) | Duplicate (D) | RPD | Q |
|---------|---------------|--|-----------------------------|-----|---|
| Cyanide | | 8.1 <u>7.3</u> ^Q | 8.3 ^Q | 3 | |

NOTE: Hardness (total) is reported in mg/L

7.5 mg/L 2/8/19

FORM 9-IN
METHOD DETECTION LIMIT

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Analytical Method: Spectrophotometry Instrument ID: CN03
 Preparation Method: Midi-distillation Soil
 Concentration Units ($\mu\text{g/L}$, μg , or mg/kg): mg/Kg

| Analyte | Wavelength/Mass | MDL | Date Analyzed |
|---------|-----------------|-------|---------------|
| Cyanide | 578.000 nm | 0.094 | 12/29/2017 |

FORM 12 IN
ANALYSIS LOG

Lab Name: Bonner Analytical Testing Co.
 Lab Code: BON Case No.: 47927
 Instrument ID: CN03
 Start Date: 11/02/2018
 Run Batch: BK80508C110218A

Contract: EPW14029
 MA No.: _____ SDG No.: MESNP2
 Analytical Method: Spectrophotometry
 End Date: 11/02/2018

| EPA Sample NO. | D/F | Time | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|---|--------|--------|--|--|---|--|
| | | | A l | S b | A s | B a | B e | C d | C a | C r | C o | C u | F e | P b | M g | M n | H g | N i | K | S e | A g | N a | T l | V | Z n | C N | | | | |
| S01 | 1.0 | 0943 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S02 | 1.0 | 0944 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S03 | 1.0 | 0945 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S04 | 1.0 | 0946 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S05 | 1.0 | 0947 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S06 | 1.0 | 0948 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| S07 | 1.0 | 0950 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICV01 | 1.0 | 0951 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| ICB01 | 1.0 | 0952 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCV01 | 1.0 | 0953 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| CCB01 | 1.0 | 0954 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| BASELINE | 1.0 | 0955 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| PBS01 | 1.0 | 0957 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP2 | 1.0 | 0958 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP3 | 1.0 | 0959 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP4 | 1.0 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP5 | 1.0 | 1001 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP5S | 1.0 | 1002 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP5D | 1.0 | 1004 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP6 | 1.0 | 1005 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP7 | 1.0 | 1006 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP8 | 1.0 | 1007 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP9 | 1.0 | 1008 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP0 | 1.0 | 1009 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP1 | 1.0 | 1011 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP2 | 1.0 | 1012 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MESNP3 | 1.0 | 1013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESNP3 | 3.0 | 1014 | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| PLACEH01 | 1.0 | 1015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLACEH01 | 1.0 | 1016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP2

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-01

% Solids: 34.6

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.15 | J | 11/02/2018 | 1517 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP3

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-02

% Solids: 33.6

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.089 | J | 11/02/2018 | 1520 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP4

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-03

% Solids: 48.5

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.51 | | 11/02/2018 | 1522 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP5

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-04

% Solids: 65.3

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.30 | | 11/02/2018 | 1525 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP6

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-05
 % Solids: 42.8 Date Received: 10/24/2018
 Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.16 | J | 11/02/2018 | 1532 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP7

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-06
 % Solids: 76.1 Date Received: 10/24/2018
 Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.16 | | 11/02/2018 | 1535 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP8

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-07

% Solids: 70.8

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.25 | | 11/02/2018 | 1538 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP9

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-08

% Solids: 79.5

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.046 | J | 11/02/2018 | 1540 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESN00

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-09
 % Solids: 66.9 Date Received: 10/24/2018
 Analytical method: CVAA
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.36 | | 11/02/2018 | 1548 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM I-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ1

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-10

% Solids: 78.6

Date Received: 10/24/2018

Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 0.068 | J | 11/02/2018 | 1550 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ2

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-11
 % Solids: 82.5 Date Received: 10/24/2018
 Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 1.2 | | 11/02/2018 | 1553 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
Matrix: Soil Lab Sample ID: 8100326-12
% Solids: 83.2 Date Received: 10/24/2018
Analytical method: CVAA

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|---------|---------------|---|---------------|---------------|
| 7439-97-6 | Mercury | 5.7 | D | 11/02/2018 | 1606 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-001
 Sample wt/vol: 3.44 (g/mL) g Lab File ID: 131025A05
 % Solids: 24.6 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 30 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 30 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 59 | U |
| 108-88-3 | Toluene | 30 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 30 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 30 | U |
| 127-18-4 | Tetrachloroethene | 30 | U |
| 591-78-6 | 2-Hexanone | 59 | U |
| 124-48-1 | Dibromochloromethane | 30 | U |
| 106-93-4 | 1,2-Dibromoethane | 30 | U |
| 108-90-7 | Chlorobenzene | 30 | U |
| 100-41-4 | Ethylbenzene | 30 | U |
| 179601-23-1 | m, p-Xylene | 30 | U |
| 95-47-6 | o-Xylene | 30 | U |
| 100-42-5 | Styrene | 30 | U |
| 75-25-2 | Bromoform | 30 | U |
| 98-82-8 | Isopropylbenzene | 30 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 30 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 30 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 30 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 30 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 30 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 30 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 30 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.44 (g/mL) g
 % Solids: 24.6
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-001
 Lab File ID: 131025A05
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

ack
 12-10-18

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.19 | 48 | NJBU |
| 02 | | Unknown-01 | 13.54 | 180 | JB |
| 03 | | Unknown-02 | 14.71 | 260 | JB |
| 04 | | Unknown-03 | 15.90 | 130 | JB |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
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| 20 | | | | | |
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| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

c.c. = common contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.64 (g/mL) g
 % Solids: 39.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-002
 Lab File ID: 131025A06
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 14 | U |
| 74-87-3 | Chloromethane | 14 | U |
| 75-01-4 | Vinyl chloride | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-69-4 | Trichlorofluoromethane | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 14 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 14 | U |
| 67-64-1 | Acetone | 55 | B |
| 75-15-0 | Carbon disulfide | 17 | |
| 79-20-9 | Methyl acetate | 14 | U |
| 75-09-2 | Methylene chloride | 14 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 14 | U |
| 1634-04-4 | Methyl tert-butyl ether | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 14 | U |
| 78-93-3 | 2-Butanone | 25 | J |
| 74-97-5 | Bromochloromethane | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 110-82-7 | Cyclohexane | 14 | U |
| 56-23-5 | Carbon tetrachloride | 14 | U |
| 71-43-2 | Benzene | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 79-01-6 | Trichloroethene | 14 | U |
| 108-87-2 | Methylcyclohexane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-002
 Sample wt/vol: 4.64 (g/mL) g Lab File ID: 131025A06
 % Solids: 39.2 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 27 | U |
| 108-88-3 | Toluene | 14 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 591-78-6 | 2-Hexanone | 27 | U |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 106-93-4 | 1,2-Dibromoethane | 14 | U |
| 108-90-7 | Chlorobenzene | 14 | U |
| 100-41-4 | Ethylbenzene | 14 | U |
| 179601-23-1 | m, p-Xylene | 14 | U |
| 95-47-6 | o-Xylene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 98-82-8 | Isopropylbenzene | 14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 14 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 14 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 14 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 14 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 14 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 14 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.64 (g/mL) g
 % Solids: 39.2
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-002
 Lab File ID: 131025A06
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|----|
| 01 | 127-91-3 | .beta.-Pinene | 12.46 | 20 | NJ |
| 02 | | Unknown-01 | 13.54 | 19 | JB |
| 03 | | Unknown-02 | 14.71 | 21 | JB |
| 04 | | Unknown-03 | 15.90 | 14 | JB |
| 05 | 473-13-2 | Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro | 16.70 | 71 | NJ |
| 06 | | | | | |
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| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3RE

*Not Used
 OCH
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.63 (g/mL) g
 % Solids: 39.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-002
 Lab File ID: 131029A05
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 14 | U |
| 74-87-3 | Chloromethane | 14 | U |
| 75-01-4 | Vinyl chloride | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-69-4 | Trichlorofluoromethane | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 14 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 14 | U |
| 67-64-1 | Acetone | 52 | |
| 75-15-0 | Carbon disulfide | 18 | |
| 79-20-9 | Methyl acetate | 14 | U |
| 75-09-2 | Methylene chloride | 14 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 14 | U |
| 1634-04-4 | Methyl tert-butyl ether | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 14 | U |
| 78-93-3 | 2-Butanone | 22 | J |
| 74-97-5 | Bromochloromethane | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 110-82-7 | Cyclohexane | 14 | U |
| 56-23-5 | Carbon tetrachloride | 14 | U |
| 71-43-2 | Benzene | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 79-01-6 | Trichloroethene | 14 | U |
| 108-87-2 | Methylcyclohexane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-002
 Sample wt/vol: 4.63 (g/mL) g Lab File ID: 131029A05
 % Solids: 39.2 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/29/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 28 | U |
| 108-88-3 | Toluene | 14 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 591-78-6 | 2-Hexanone | 28 | U |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 106-93-4 | 1,2-Dibromoethane | 14 | U |
| 108-90-7 | Chlorobenzene | 14 | U |
| 100-41-4 | Ethylbenzene | 14 | U |
| 179601-23-1 | m, p-Xylene | 14 | U |
| 95-47-6 | o-Xylene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 98-82-8 | Isopropylbenzene | 14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 14 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 14 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 14 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 14 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 14 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 14 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP3RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.63 (g/mL) g
 % Solids: 39.2
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (uL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-002
 Lab File ID: 131029A05
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/29/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | | Unknown-01 | 13.54 | 28 | JB |
| 02 | | Unknown-02 | 14.71 | 39 | JB |
| 03 | | Unknown-03 | 15.90 | 79 | JB |
| 04 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.67 (g/mL) g
 % Solids: 28.9
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-003
 Lab File ID: 131025A07
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 19 | U |
| 74-87-3 | Chloromethane | 19 | U |
| 75-01-4 | Vinyl chloride | 19 | U |
| 74-83-9 | Bromomethane | 19 | U |
| 75-00-3 | Chloroethane | 19 | U |
| 75-69-4 | Trichlorofluoromethane | 19 | U |
| 75-35-4 | 1,1-Dichloroethene | 19 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 19 | U |
| 67-64-1 | Acetone | 82 | ✓ |
| 75-15-0 | Carbon disulfide | 19 | U |
| 79-20-9 | Methyl acetate | 19 | U |
| 75-09-2 | Methylene chloride | 19 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 19 | U |
| 1634-04-4 | Methyl tert-butyl ether | 19 | U |
| 75-34-3 | 1,1-Dichloroethane | 19 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 19 | U |
| 78-93-3 | 2-Butanone | 33 | ✓ |
| 74-97-5 | Bromochloromethane | 19 | U |
| 67-66-3 | Chloroform | 19 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 19 | U |
| 110-82-7 | Cyclohexane | 19 | U |
| 56-23-5 | Carbon tetrachloride | 19 | U |
| 71-43-2 | Benzene | 19 | U |
| 107-06-2 | 1,2-Dichloroethane | 19 | U |
| 79-01-6 | Trichloroethene | 19 | U |
| 108-87-2 | Methylcyclohexane | 19 | U |
| 78-87-5 | 1,2-Dichloropropane | 19 | U |

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ack
12-12-18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-003
 Sample wt/vol: 4.67 (g/mL) g Lab File ID: 131025A07
 % Solids: 28.9 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 19 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 19 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 37 | U |
| 108-88-3 | Toluene | 19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 19 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 19 | U |
| 127-18-4 | Tetrachloroethene | 19 | U |
| 591-78-6 | 2-Hexanone | 37 | U |
| 124-48-1 | Dibromochloromethane | 19 | U |
| 106-93-4 | 1,2-Dibromoethane | 19 | U |
| 108-90-7 | Chlorobenzene | 19 | U |
| 100-41-4 | Ethylbenzene | 19 | U |
| 179601-23-1 | m, p-Xylene | 19 | U |
| 95-47-6 | o-Xylene | 19 | U |
| 100-42-5 | Styrene | 19 | U |
| 75-25-2 | Bromoform | 19 | U |
| 98-82-8 | Isopropylbenzene | 19 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 19 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 19 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 19 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 19 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.67 (g/mL) g
 % Solids: 28.9
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-003
 Lab File ID: 131025A07
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/25/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | 470-82-6 | Eucalyptol | 13.03 | 40 | NJ |
| 02 | | Unknown-01 | 13.54 | 49 | JB |
| 03 | 546-80-5 | Thujone | 13.99 | 90 | NJ |
| 04 | | Unknown-02 | 14.71 | 87 | JB |
| 05 | | Unknown-03 | 15.90 | 84 | JB |
| 06 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4RE

*Not Used
 ACK
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.53 (g/mL) g
 % Solids: 28.9
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-003
 Lab File ID: 131029A06
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|-------------------------------------|
| 75-71-8 | Dichlorodifluoromethane | 19 | U |
| 74-87-3 | Chloromethane | 19 | U |
| 75-01-4 | Vinyl chloride | 19 | U |
| 74-83-9 | Bromomethane | 19 | U |
| 75-00-3 | Chloroethane | 19 | U |
| 75-69-4 | Trichlorofluoromethane | 19 | U |
| 75-35-4 | 1,1-Dichloroethene | 19 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 19 | U |
| 67-64-1 | Acetone | 60 | |
| 75-15-0 | Carbon disulfide | 19 | U |
| 79-20-9 | Methyl acetate | 19 | U |
| 75-09-2 | Methylene chloride | 19 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 19 | U |
| 1634-04-4 | Methyl tert-butyl ether | 19 | U |
| 75-34-3 | 1,1-Dichloroethane | 19 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 19 | U |
| 78-93-3 | 2-Butanone | 26 | <input checked="" type="checkbox"/> |
| 74-97-5 | Bromochloromethane | 19 | U |
| 67-66-3 | Chloroform | 19 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 19 | U |
| 110-82-7 | Cyclohexane | 19 | U |
| 56-23-5 | Carbon tetrachloride | 19 | U |
| 71-43-2 | Benzene | 19 | U |
| 107-06-2 | 1,2-Dichloroethane | 19 | U |
| 79-01-6 | Trichloroethene | 19 | U |
| 108-87-2 | Methylcyclohexane | 19 | U |
| 78-87-5 | 1,2-Dichloropropane | 19 | U |

*Keep
 ACK
 12-12-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-003
 Sample wt/vol: 4.53 (g/mL) g Lab File ID: 131029A06
 % Solids: 28.9 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/29/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 19 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 19 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 38 | U |
| 108-88-3 | Toluene | 19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 19 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 19 | U |
| 127-18-4 | Tetrachloroethene | 19 | U |
| 591-78-6 | 2-Hexanone | 38 | U |
| 124-48-1 | Dibromochloromethane | 19 | U |
| 106-93-4 | 1,2-Dibromoethane | 19 | U |
| 108-90-7 | Chlorobenzene | 19 | U |
| 100-41-4 | Ethylbenzene | 19 | U |
| 179601-23-1 | m, p-Xylene | 19 | U |
| 95-47-6 | o-Xylene | 19 | U |
| 100-42-5 | Styrene | 19 | U |
| 75-25-2 | Bromoform | 19 | U |
| 98-82-8 | Isopropylbenzene | 19 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 19 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 19 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 19 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 19 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP4RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.53 (g/mL) g
 % Solids: 28.9
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-003
 Lab File ID: 131029A06
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | | Unknown-01 | 13.54 | 36 | JB |
| 02 | | Unknown-02 | 13.84 | 22 | J |
| 03 | | Unknown-03 | 14.71 | 98 | JB |
| 04 | | Unknown-04 | 15.90 | 64 | JB |
| 05 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.13 (g/mL) g
 % Solids: 65.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-004
 Lab File ID: 131025A08
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 9.3 | U |
| 74-87-3 | Chloromethane | 9.3 | U |
| 75-01-4 | Vinyl chloride | 9.3 | U |
| 74-83-9 | Bromomethane | 9.3 | U |
| 75-00-3 | Chloroethane | 9.3 | U |
| 75-69-4 | Trichlorofluoromethane | 9.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 9.3 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.3 | U |
| 67-64-1 | Acetone | 19 | U |
| 75-15-0 | Carbon disulfide | 9.3 | U |
| 79-20-9 | Methyl acetate | 9.3 | U |
| 75-09-2 | Methylene chloride | 9.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 9.3 | U |
| 1634-04-4 | Methyl tert-butyl ether | 9.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 9.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.3 | U |
| 78-93-3 | 2-Butanone | 19 | U |
| 74-97-5 | Bromochloromethane | 9.3 | U |
| 67-66-3 | Chloroform | 9.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.3 | U |
| 110-82-7 | Cyclohexane | 9.3 | U |
| 56-23-5 | Carbon tetrachloride | 9.3 | U |
| 71-43-2 | Benzene | 9.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.3 | U |
| 79-01-6 | Trichloroethene | 9.3 | U |
| 108-87-2 | Methylcyclohexane | 9.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.3 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-004
 Sample wt/vol: 4.13 (g/mL) g Lab File ID: 131025A08
 % Solids: 65.3 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 9.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | U |
| 108-88-3 | Toluene | 9.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 9.3 | U |
| 127-18-4 | Tetrachloroethene | 9.3 | U |
| 591-78-6 | 2-Hexanone | 19 | U |
| 124-48-1 | Dibromochloromethane | 9.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 9.3 | U |
| 108-90-7 | Chlorobenzene | 9.3 | U |
| 100-41-4 | Ethylbenzene | 9.3 | U |
| 179601-23-1 | m, p-Xylene | 9.3 | U |
| 95-47-6 | o-Xylene | 9.3 | U |
| 100-42-5 | Styrene | 9.3 | U |
| 75-25-2 | Bromoform | 9.3 | U |
| 98-82-8 | Isopropylbenzene | 9.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9.3 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 9.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9.3 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.13 (g/mL) g
 % Solids: 65.3
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-004
 Lab File ID: 131025A08
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/25/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|-----------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.18 | 13 | NBEU |
| 02 | | Unknown-01 | 13.54 | 25 | JB |
| 03 | | Unknown-02 | 14.71 | 29 | JB |
| 04 | | Unknown-03 | 15.90 | 43 | JB |
| 05 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

ack
12-10-18

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5RE

*Not Used
 ACA
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.33 (g/mL) g
 % Solids: 65.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-004
 Lab File ID: 131029A07
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 8.8 | U |
| 74-87-3 | Chloromethane | 8.8 | U |
| 75-01-4 | Vinyl chloride | 8.8 | U |
| 74-83-9 | Bromomethane | 8.8 | U |
| 75-00-3 | Chloroethane | 8.8 | U |
| 75-69-4 | Trichlorofluoromethane | 8.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.8 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.8 | U |
| 67-64-1 | Acetone | 18 | U |
| 75-15-0 | Carbon disulfide | 2.6 | J |
| 79-20-9 | Methyl acetate | 8.8 | U |
| 75-09-2 | Methylene chloride | 8.8 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 8.8 | U |
| 1634-04-4 | Methyl tert-butyl ether | 8.8 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.8 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8.8 | U |
| 78-93-3 | 2-Butanone | 18 | U |
| 74-97-5 | Bromochloromethane | 8.8 | U |
| 67-66-3 | Chloroform | 8.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.8 | U |
| 110-82-7 | Cyclohexane | 8.8 | U |
| 56-23-5 | Carbon tetrachloride | 8.8 | U |
| 71-43-2 | Benzene | 8.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.8 | U |
| 79-01-6 | Trichloroethene | 8.8 | U |
| 108-87-2 | Methylcyclohexane | 8.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.8 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP5RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.33 (g/mL) g
 % Solids: 65.3
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-004
 Lab File ID: 131029A07
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|---------------|-------------|
| 01 | <u>556-67-2</u> | Unknown-01 <u>Cyclotetrasiloxane, octa</u> | 12.19 | <u>c.c</u> 12 | <u>JB U</u> |
| 02 | | Unknown-02 | 13.54 | 26 | JB |
| 03 | | Unknown-03 | 14.71 | 28 | JB |
| 04 | | Unknown-04 | 15.90 | 62 | JB |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

ECT
12-10-18

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 44.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-005
 Lab File ID: 131025A09
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|----------------|
| 75-71-8 | Dichlorodifluoromethane | 16 | U |
| 74-87-3 | Chloromethane | 16 | U |
| 75-01-4 | Vinyl chloride | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-69-4 | Trichlorofluoromethane | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 16 | U |
| 67-64-1 | Acetone | 26 | J U |
| 75-15-0 | Carbon disulfide | 16 | U |
| 79-20-9 | Methyl acetate | 16 | U |
| 75-09-2 | Methylene chloride | 16 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 16 | U |
| 1634-04-4 | Methyl tert-butyl ether | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 16 | U |
| 78-93-3 | 2-Butanone | 31 | U |
| 74-97-5 | Bromochloromethane | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 110-82-7 | Cyclohexane | 16 | U |
| 56-23-5 | Carbon tetrachloride | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 108-87-2 | Methylcyclohexane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |

act
12-10-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-005
 Sample wt/vol: 3.61 (g/mL) 9 Lab File ID: 131025A09
 % Solids: 44.3 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 31 | U |
| 108-88-3 | Toluene | 16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 591-78-6 | 2-Hexanone | 42 | B |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 106-93-4 | 1,2-Dibromoethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 179601-23-1 | m, p-Xylene | 16 | U |
| 95-47-6 | o-Xylene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 98-82-8 | Isopropylbenzene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 16 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 16 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 16 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 16 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 16 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 16 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 44.3
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-005
 Lab File ID: 131025A09
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/25/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|------------------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- C.C. | 12.18 | 20 | NJ U |
| 02 | 106-68-3 | 3-Octanone | 12.66 | 24 | NJ |
| 03 | 470-82-6 | Eucalyptol | 13.03 | 23 | NJ |
| 04 | | Unknown-01 | 13.54 | 43 | JB |
| 05 | | Unknown-02 | 14.71 | 130 | JB |
| 06 | | Unknown-03 | 15.90 | 100 | JB |
| 07 | | | | | |
| 08 | | | | | |
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| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MS

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.98 (g/mL) g
 % Solids: 44.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-005MS
 Lab File ID: 131025A12
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|--------------|
| 75-71-8 | Dichlorodifluoromethane | 14 | U |
| 74-87-3 | Chloromethane | 14 | U |
| 75-01-4 | Vinyl chloride | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-69-4 | Trichlorofluoromethane | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 99 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 14 | U |
| 67-64-1 | Acetone | 29 | U |
| 75-15-0 | Carbon disulfide | 14 | U |
| 79-20-9 | Methyl acetate | 6.9 | J |
| 75-09-2 | Methylene chloride | 14 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 14 | U |
| 1634-04-4 | Methyl tert-butyl ether | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 14 | U |
| 78-93-3 | 2-Butanone | 28 | U |
| 74-97-5 | Bromochloromethane | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 110-82-7 | Cyclohexane | 14 | U |
| 56-23-5 | Carbon tetrachloride | 14 | U |
| 71-43-2 | Benzene | 180 | |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 79-01-6 | Trichloroethene | 100 | |
| 108-87-2 | Methylcyclohexane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |

ack
 12-10-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-005MS
 Sample wt/vol: 3.98 (g/mL) g Lab File ID: 131025A12
 % Solids: 44.3 Date Received: 10/23/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|--------------|
| 75-27-4 | Bromodichloromethane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 28 | U |
| 108-88-3 | Toluene | 140 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 591-78-6 | 2-Hexanone | 48 | U |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 106-93-4 | 1,2-Dibromoethane | 14 | U |
| 108-90-7 | Chlorobenzene | 84 | |
| 100-41-4 | Ethylbenzene | 14 | U |
| 179601-23-1 | m, p-Xylene | 14 | U |
| 95-47-6 | o-Xylene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 98-82-8 | Isopropylbenzene | 14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 14 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 14 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 14 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 14 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 14 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 14 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MSD

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.52 (g/mL) g
 % Solids: 44.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-005MD
 Lab File ID: 131025A13
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 16 | U |
| 74-87-3 | Chloromethane | 16 | U |
| 75-01-4 | Vinyl chloride | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-69-4 | Trichlorofluoromethane | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 120 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 16 | U |
| 67-64-1 | Acetone | 37 | B |
| 75-15-0 | Carbon disulfide | 16 | U |
| 79-20-9 | Methyl acetate | 8.9 | J |
| 75-09-2 | Methylene chloride | 16 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 16 | U |
| 1634-04-4 | Methyl tert-butyl ether | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 16 | U |
| 78-93-3 | 2-Butanone | 32 | U |
| 74-97-5 | Bromochloromethane | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 110-82-7 | Cyclohexane | 16 | U |
| 56-23-5 | Carbon tetrachloride | 16 | U |
| 71-43-2 | Benzene | 210 | |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 79-01-6 | Trichloroethene | 130 | |
| 108-87-2 | Methylcyclohexane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |

act
12-10-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MSD

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.52 (g/mL) g
 % Solids: 44.3
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-005MD
 Lab File ID: 131025A13
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 32 | U |
| 108-88-3 | Toluene | 170 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 591-78-6 | 2-Hexanone | 47 | B |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 106-93-4 | 1,2-Dibromoethane | 16 | U |
| 108-90-7 | Chlorobenzene | 110 | |
| 100-41-4 | Ethylbenzene | 16 | U |
| 179601-23-1 | m, p-Xylene | 16 | U |
| 95-47-6 | o-Xylene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 98-82-8 | Isopropylbenzene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 16 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 16 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 16 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 16 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 16 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 16 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131025A10
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 9.8 | U |
| 74-87-3 | Chloromethane | 9.8 | U |
| 75-01-4 | Vinyl chloride | 9.8 | U |
| 74-83-9 | Bromomethane | 9.8 | U |
| 75-00-3 | Chloroethane | 9.8 | U |
| 75-69-4 | Trichlorofluoromethane | 9.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 9.8 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.8 | U |
| 67-64-1 | Acetone | 19 | J |
| 75-15-0 | Carbon disulfide | 9.8 | U |
| 79-20-9 | Methyl acetate | 9.8 | U |
| 75-09-2 | Methylene chloride | 9.8 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 9.8 | U |
| 1634-04-4 | Methyl tert-butyl ether | 9.8 | U |
| 75-34-3 | 1,1-Dichloroethane | 9.8 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.8 | U |
| 78-93-3 | 2-Butanone | 20 | U |
| 74-97-5 | Bromochloromethane | 9.8 | U |
| 67-66-3 | Chloroform | 9.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.8 | U |
| 110-82-7 | Cyclohexane | 9.8 | U |
| 56-23-5 | Carbon tetrachloride | 9.8 | U |
| 71-43-2 | Benzene | 9.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.8 | U |
| 79-01-6 | Trichloroethene | 9.8 | U |
| 108-87-2 | Methylcyclohexane | 5.4 | J |
| 78-87-5 | 1,2-Dichloropropane | 9.8 | U |

act
12-10-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated. (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131025A10
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 9.8 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| 108-88-3 | Toluene | 9.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 9.8 | U |
| 127-18-4 | Tetrachloroethene | 9.8 | U |
| 591-78-6 | 2-Hexanone | 20 | U |
| 124-48-1 | Dibromochloromethane | 9.8 | U |
| 106-93-4 | 1,2-Dibromoethane | 9.8 | U |
| 108-90-7 | Chlorobenzene | 9.8 | U |
| 100-41-4 | Ethylbenzene | 9.8 | U |
| 179601-23-1 | m, p-Xylene | 9.8 | U |
| 95-47-6 | o-Xylene | 9.8 | U |
| 100-42-5 | Styrene | 9.8 | U |
| 75-25-2 | Bromoform | 9.8 | U |
| 98-82-8 | Isopropylbenzene | 9.8 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9.8 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 9.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9.8 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SEA SAMPLE NO.
ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131025A10
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------------|---------------|-------|------------|----|
| 01 | Unknown-01 | 13.54 | 24 | JB |
| 02 | Unknown-02 | 14.71 | 56 | JB |
| 03 | Unknown-03 | 15.90 | 27 | JB |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
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| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.12 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131029A08
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 8.6 | U |
| 74-87-3 | Chloromethane | 8.6 | U |
| 75-01-4 | Vinyl chloride | 8.6 | U |
| 74-83-9 | Bromomethane | 8.6 | U |
| 75-00-3 | Chloroethane | 8.6 | U |
| 75-69-4 | Trichlorofluoromethane | 8.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.6 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.6 | U |
| 67-64-1 | Acetone | 14 | J |
| 75-15-0 | Carbon disulfide | 8.6 | U |
| 79-20-9 | Methyl acetate | 8.6 | U |
| 75-09-2 | Methylene chloride | 8.6 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 8.6 | U |
| 1634-04-4 | Methyl tert-butyl ether | 8.6 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.6 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8.6 | U |
| 78-93-3 | 2-Butanone | 17 | U |
| 74-97-5 | Bromochloromethane | 8.6 | U |
| 67-66-3 | Chloroform | 8.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.6 | U |
| 110-82-7 | Cyclohexane | 8.6 | U |
| 56-23-5 | Carbon tetrachloride | 8.6 | U |
| 71-43-2 | Benzene | 8.6 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.6 | U |
| 79-01-6 | Trichloroethene | 8.6 | U |
| 108-87-2 | Methylcyclohexane | 2.4 | J |
| 78-87-5 | 1,2-Dichloropropane | 8.6 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7RE

*Not Used
 ACH
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.12 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131029A08
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 8.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.6 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 17 | U |
| 108-88-3 | Toluene | 8.6 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 8.6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 8.6 | U |
| 127-18-4 | Tetrachloroethene | 8.6 | U |
| 591-78-6 | 2-Hexanone | 17 | U |
| 124-48-1 | Dibromochloromethane | 8.6 | U |
| 106-93-4 | 1,2-Dibromoethane | 8.6 | U |
| 108-90-7 | Chlorobenzene | 8.6 | U |
| 100-41-4 | Ethylbenzene | 8.6 | U |
| 179601-23-1 | m, p-Xylene | 8.6 | U |
| 95-47-6 | o-Xylene | 8.6 | U |
| 100-42-5 | Styrene | 8.6 | U |
| 75-25-2 | Bromoform | 8.6 | U |
| 98-82-8 | Isopropylbenzene | 8.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8.6 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 8.6 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 8.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.6 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.6 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP7RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.12 (g/mL) g
 % Solids: 70.5
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-006
 Lab File ID: 131029A08
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/29/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | | Unknown-01 | 13.54 | 14 | JB |
| 02 | | Unknown-02 | 14.71 | 50 | JB |
| 03 | | Unknown-03 | 15.90 | 48 | JB |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131029A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 9.9 | U |
| 74-87-3 | Chloromethane | 9.9 | U |
| 75-01-4 | Vinyl chloride | 9.9 | U |
| 74-83-9 | Bromomethane | 9.9 | U |
| 75-00-3 | Chloroethane | 9.9 | U |
| 75-69-4 | Trichlorofluoromethane | 9.9 | U |
| 75-35-4 | 1,1-Dichloroethene | 9.9 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.9 | U |
| 67-64-1 | Acetone | 20 | U |
| 75-15-0 | Carbon disulfide | 9.9 | U |
| 79-20-9 | Methyl acetate | 9.9 | U |
| 75-09-2 | Methylene chloride | 9.9 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 9.9 | U |
| 1634-04-4 | Methyl tert-butyl ether | 9.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 9.9 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.9 | U |
| 78-93-3 | 2-Butanone | 20 | U |
| 74-97-5 | Bromochloromethane | 9.9 | U |
| 67-66-3 | Chloroform | 9.9 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.9 | U |
| 110-82-7 | Cyclohexane | 9.9 | U |
| 56-23-5 | Carbon tetrachloride | 9.9 | U |
| 71-43-2 | Benzene | 9.9 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.9 | U |
| 79-01-6 | Trichloroethene | 9.9 | U |
| 108-87-2 | Methylcyclohexane | 9.9 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.9 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131029A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 9.9 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| 108-88-3 | Toluene | 9.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 9.9 | U |
| 127-18-4 | Tetrachloroethene | 9.9 | U |
| 591-78-6 | 2-Hexanone | 20 | U |
| 124-48-1 | Dibromochloromethane | 9.9 | U |
| 106-93-4 | 1,2-Dibromoethane | 9.9 | U |
| 108-90-7 | Chlorobenzene | 9.9 | U |
| 100-41-4 | Ethylbenzene | 9.9 | U |
| 179601-23-1 | m, p-Xylene | 9.9 | U |
| 95-47-6 | o-Xylene | 9.9 | U |
| 100-42-5 | Styrene | 9.9 | U |
| 75-25-2 | Bromoform | 9.9 | U |
| 98-82-8 | Isopropylbenzene | 9.9 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9.9 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 9.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.9 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9.9 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.61 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131029A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <u>C. C.</u> | 12.19 | 9.9 | <u>NJB</u> |
| 02 | 106-68-3 | 3-Octanone | 12.66 | 33 | NJ |
| 03 | | Unknown-01 | 13.54 | 31 | JB |
| 04 | | Unknown-02 | 14.71 | 30 | JB |
| 05 | | | | | |
| 06 | | | | | |
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| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

act
12-10-18

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8RE

*Not Used
 ACK
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.6 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131031A09
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 9.9 | U |
| 74-87-3 | Chloromethane | 9.9 | U |
| 75-01-4 | Vinyl chloride | 9.9 | U |
| 74-83-9 | Bromomethane | 9.9 | U |
| 75-00-3 | Chloroethane | 9.9 | U |
| 75-69-4 | Trichlorofluoromethane | 9.9 | U |
| 75-35-4 | 1,1-Dichloroethene | 9.9 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.9 | U |
| 67-64-1 | Acetone | 9.0 | J |
| 75-15-0 | Carbon disulfide | 9.9 | U |
| 79 20 9 | Methyl acetate | 9.9 | U |
| 75-09-2 | Methylene chloride | 9.9 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 9.9 | U |
| 1634-04-4 | Methyl tert-butyl ether | 9.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 9.9 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.9 | U |
| 78-93-3 | 2-Butanone | 20 | U |
| 74-97-5 | Bromochloromethane | 9.9 | U |
| 67-66-3 | Chloroform | 9.9 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6.6 | J |
| 110-82-7 | Cyclohexane | 9.9 | U |
| 56-23-5 | Carbon tetrachloride | 9.9 | U |
| 71-43-2 | Benzene | 9.9 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.9 | U |
| 79-01-6 | Trichloroethene | 9.9 | U |
| 108-87-2 | Methylcyclohexane | 9.9 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.9 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.6 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131031A09
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 9.9 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| 108-88-3 | Toluene | 9.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 9.9 | U |
| 127-18-4 | Tetrachloroethene | 9.9 | U |
| 591-78-6 | 2-Hexanone | 20 | U |
| 124-48-1 | Dibromochloromethane | 9.9 | U |
| 106-93-4 | 1,2-Dibromoethane | 9.9 | U |
| 108-90-7 | Chlorobenzene | 9.9 | U |
| 100-41-4 | Ethylbenzene | 9.9 | U |
| 179601-23-1 | m, p-Xylene | 9.9 | U |
| 95-47-6 | o-Xylene | 9.9 | U |
| 100-42-5 | Styrene | 9.9 | U |
| 75-25-2 | Bromoform | 9.9 | U |
| 98-82-8 | Isopropylbenzene | 9.9 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9.9 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 9.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.9 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9.9 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP8RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.6 (g/mL) g
 % Solids: 70.2
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 131031A09
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | 106-68-3 | 3-Octanone | 12.66 | 23 | NJ |
| 02 | | Unknown-01 | 13.54 | 17 | JB |
| 03 | | Unknown-02 | 14.71 | 17 | J |
| 04 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.02 (g/mL) g
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131029A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 6.4 | U |
| 74-87-3 | Chloromethane | 6.4 | U |
| 75-01-4 | Vinyl chloride | 6.4 | U |
| 74-83-9 | Bromomethane | 6.4 | U |
| 75-00-3 | Chloroethane | 6.4 | U |
| 75-69-4 | Trichlorofluoromethane | 6.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.4 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 6.4 | U |
| 67-64-1 | Acetone | 13 | U |
| 75-15-0 | Carbon disulfide | 6.4 | U |
| 79-20-9 | Methyl acetate | 6.4 | U |
| 75-09-2 | Methylene chloride | 6.4 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 6.4 | U |
| 1634-04-4 | Methyl tert-butyl ether | 6.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 6.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.4 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 74-97-5 | Bromochloromethane | 6.4 | U |
| 67-66-3 | Chloroform | 6.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6.4 | U |
| 110-82-7 | Cyclohexane | 6.4 | U |
| 56-23-5 | Carbon tetrachloride | 6.4 | U |
| 71-43-2 | Benzene | 6.4 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.4 | U |
| 79-01-6 | Trichloroethene | 6.4 | U |
| 108-87-2 | Methylcyclohexane | 6.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 6.4 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.02 (g/mL) 9
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131029A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 6.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.4 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 13 | U |
| 108-88-3 | Toluene | 6.4 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.4 | U |
| 127-18-4 | Tetrachloroethene | 6.4 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 124-48-1 | Dibromochloromethane | 6.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 6.4 | U |
| 108-90-7 | Chlorobenzene | 6.4 | U |
| 100-41-4 | Ethylbenzene | 6.4 | U |
| 179601-23-1 | m, p-Xylene | 6.4 | U |
| 95-47-6 | o-Xylene | 6.4 | U |
| 100-42-5 | Styrene | 6.4 | U |
| 75-25-2 | Bromoform | 6.4 | U |
| 98-82-8 | Isopropylbenzene | 6.4 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 6.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 6.4 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.02 (g/mL) g
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131029A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|-----------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.19 | 7.7 | NJBV |
| 02 | 106-68-3 | 3-Octanone | 12.66 | 7.2 | NJ |
| 03 | | Unknown-01 | 13.54 | 17 | JB |
| 04 | | Unknown-02 | 14.71 | 11 | JB |
| 05 | | | | | |
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| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

act
12-10-19

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9RE

*Not Used
 COX
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.81 (g/mL) 9
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131031A10
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 6.7 | U |
| 74-87-3 | Chloromethane | 6.7 | U |
| 75-01-4 | Vinyl chloride | 6.7 | U |
| 74-83-9 | Bromomethane | 6.7 | U |
| 75-00-3 | Chloroethane | 6.7 | U |
| 75-69-4 | Trichlorofluoromethane | 6.7 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.7 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 6.7 | U |
| 67-64-1 | Acetone | 3.7 | J |
| 75-15-0 | Carbon disulfide | 6.7 | U |
| 79-20-9 | Methyl acetate | 6.7 | U |
| 75-09-2 | Methylene chloride | 6.7 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 6.7 | U |
| 1634-04-4 | Methyl tert-butyl ether | 6.7 | U |
| 75-34-3 | 1,1-Dichloroethane | 6.7 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.7 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 74-97-5 | Bromochloromethane | 6.7 | U |
| 67-66-3 | Chloroform | 6.7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6.7 | U |
| 110-82-7 | Cyclohexane | 6.7 | U |
| 56-23-5 | Carbon tetrachloride | 6.7 | U |
| 71-43-2 | Benzene | 6.7 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.7 | U |
| 79-01-6 | Trichloroethene | 6.7 | U |
| 108-87-2 | Methylcyclohexane | 6.7 | U |
| 78-87-5 | 1,2-Dichloropropane | 6.7 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9RE

*Not Used
 ACA
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.81 (g/mL) g
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131031A10
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 6.7 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.7 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 13 | U |
| 108-88-3 | Toluene | 6.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.7 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.7 | U |
| 127-18-4 | Tetrachloroethene | 6.7 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 124-48-1 | Dibromochloromethane | 6.7 | U |
| 106-93-4 | 1,2-Dibromoethane | 6.7 | U |
| 108-90-7 | Chlorobenzene | 6.7 | U |
| 100-41-4 | Ethylbenzene | 6.7 | U |
| 179601-23-1 | m, p-Xylene | 6.7 | U |
| 95-47-6 | o-Xylene | 6.7 | U |
| 100-42-5 | Styrene | 6.7 | U |
| 75-25-2 | Bromoform | 6.7 | U |
| 98-82-8 | Isopropylbenzene | 6.7 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.7 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.7 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 6.7 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.7 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 6.7 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP9RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.81 (g/mL) g
 % Solids: 77.6
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 131031A10
 Date Received: 10/24/2018
 Date Extracted:
 Date Analyzed: 10/31/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | 106-68-3 | 3-Octanone | 12.66 | 11 | NJ |
| 02 | | Unknown-01 | 13.54 | 11 | JB |
| 03 | | Unknown-02 | 14.71 | 8.4 | J |
| 04 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQO

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.35 (g/mL) g
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131025A11
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 8.7 | U |
| 74-87-3 | Chloromethane | 8.7 | U |
| 75-01-4 | Vinyl chloride | 8.7 | U |
| 74-83-9 | Bromomethane | 8.7 | U |
| 75-00-3 | Chloroethane | 8.7 | U |
| 75-69-4 | Trichlorofluoromethane | 8.7 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.7 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.7 | U |
| 67-64-1 | Acetone | 17 | U |
| 75-15-0 | Carbon disulfide | 3.7 | J |
| 79-20-9 | Methyl acetate | 8.7 | U |
| 75-09-2 | Methylene chloride | 8.7 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 8.7 | U |
| 1634-04-4 | Methyl tert-butyl ether | 8.7 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.7 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8.7 | U |
| 78-93-3 | 2-Butanone | 17 | U |
| 74-97-5 | Bromochloromethane | 8.7 | U |
| 67-66-3 | Chloroform | 8.7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.7 | U |
| 110-82-7 | Cyclohexane | 8.7 | U |
| 56-23-5 | Carbon tetrachloride | 8.7 | U |
| 71-43-2 | Benzene | 8.7 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.7 | U |
| 79-01-6 | Trichloroethene | 8.7 | U |
| 108-87-2 | Methylcyclohexane | 8.7 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.7 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.35 (g/mL) 9
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131025A11
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 8.7 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.7 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 17 | U |
| 108-88-3 | Toluene | 8.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 8.7 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 8.7 | U |
| 127-18-4 | Tetrachloroethene | 8.7 | U |
| 591-78-6 | 2-Hexanone | 23 | B |
| 124-48-1 | Dibromochloromethane | 8.7 | U |
| 106-93-4 | 1,2-Dibromoethane | 8.7 | U |
| 108-90-7 | Chlorobenzene | 8.7 | U |
| 100-41-4 | Ethylbenzene | 8.7 | U |
| 179601-23-1 | m, p-Xylene | 8.7 | U |
| 95-47-6 | o-Xylene | 8.7 | U |
| 100-42-5 | Styrene | 8.7 | U |
| 75-25-2 | Bromoform | 8.7 | U |
| 98-82-8 | Isopropylbenzene | 8.7 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.7 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 8.7 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 8.7 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.7 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.7 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ0

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.35 (g/mL) g
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131025A11
 Date Received: 10/23/2018
 Date Extracted:
 Date Analyzed: 10/25/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------|-------|------------|----|
| 01 | | Unknown-01 | 13.54 | 28 | JB |
| 02 | | Unknown-02 | 14.71 | 43 | JB |
| 03 | | Unknown-03 | 15.90 | 16 | JB |
| 04 | | | | | |
| 05 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0RE

*Not Used
 AC4
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.08 (g/mL) g
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131029A09
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 9.3 | U |
| 74-87-3 | Chloromethane | 9.3 | U |
| 75-01-4 | Vinyl chloride | 9.3 | U |
| 74-83-9 | Bromomethane | 9.3 | U |
| 75-00-3 | Chloroethane | 9.3 | U |
| 75-69-4 | Trichlorofluoromethane | 9.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 9.3 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.3 | U |
| 67-64-1 | Acetone | 19 | U |
| 75-15-0 | Carbon disulfide | 3.1 | J |
| 79-20-9 | Methyl acetate | 9.3 | U |
| 75-09-2 | Methylene chloride | 9.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 9.3 | U |
| 1634-04-4 | Methyl tert-butyl ether | 9.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 9.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 9.3 | U |
| 78-93-3 | 2-Butanone | 19 | U |
| 74-97-5 | Bromochloromethane | 9.3 | U |
| 67-66-3 | Chloroform | 9.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.3 | U |
| 110-82-7 | Cyclohexane | 9.3 | U |
| 56-23-5 | Carbon tetrachloride | 9.3 | U |
| 71-43-2 | Benzene | 9.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.3 | U |
| 79-01-6 | Trichloroethene | 9.3 | U |
| 108-87-2 | Methylcyclohexane | 9.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 9.3 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.08 (g/mL) 9
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131029A09
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 9.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 19 | U |
| 108-88-3 | Toluene | 9.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 9.3 | U |
| 127-18-4 | Tetrachloroethene | 9.3 | U |
| 591-78-6 | 2-Hexanone | 20 | |
| 124-48-1 | Dibromochloromethane | 9.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 9.3 | U |
| 108-90-7 | Chlorobenzene | 9.3 | U |
| 100-41-4 | Ethylbenzene | 9.3 | U |
| 179601-23-1 | m, p-Xylene | 9.3 | U |
| 95-47-6 | o-Xylene | 9.3 | U |
| 100-42-5 | Styrene | 9.3 | U |
| 75-25-2 | Bromoform | 9.3 | U |
| 98-82-8 | Isopropylbenzene | 9.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9.3 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 9.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 9.3 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ0RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.08 (g/mL) g
 % Solids: 66.1
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-007
 Lab File ID: 131029A09
 Date Received: 10/23/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------------|---------------|-------|------------|----|
| 01 | Unknown-01 | 13.54 | 17 | JB |
| 02 | Unknown-02 | 14.71 | 26 | JB |
| 03 | Unknown-03 | 15.90 | 31 | JB |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
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| 29 | | | | |
| 30 | | | | |
| E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-018
 Sample wt/vol: 4.16 (g/mL) g Lab File ID: 131029A13
 % Solids: 81.1 Date Received: 10/24/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/29/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.4 | U |
| 74-87-3 | Chloromethane | 7.4 | U |
| 75-01-4 | Vinyl chloride | 7.4 | U |
| 74-83-9 | Bromomethane | 7.4 | U |
| 75-00-3 | Chloroethane | 7.4 | U |
| 75-69-4 | Trichlorofluoromethane | 7.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.4 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.4 | U |
| 67-64-1 | Acetone | 15 | U |
| 75-15-0 | Carbon disulfide | 7.4 | U |
| 79-20-9 | Methyl acetate | 7.4 | U |
| 75-09-2 | Methylene chloride | 7.4 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.4 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.4 | U |
| 78-93-3 | 2-Butanone | 15 | U |
| 74-97-5 | Bromochloromethane | 7.4 | U |
| 67-66-3 | Chloroform | 7.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 7.4 | U |
| 110-82-7 | Cyclohexane | 7.4 | U |
| 56-23-5 | Carbon tetrachloride | 7.4 | U |
| 71-43-2 | Benzene | 7.4 | U |
| 107-06-2 | 1,2-Dichloroethane | 7.4 | U |
| 79-01-6 | Trichloroethene | 7.4 | U |
| 108-87-2 | Methylcyclohexane | 7.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 7.4 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-018
 Sample wt/vol: 4.16 (g/mL) g Lab File ID: 131029A13
 % Solids: 81.1 Date Received: 10/24/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/29/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.4 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 15 | U |
| 108-88-3 | Toluene | 7.4 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.4 | U |
| 127-18-4 | Tetrachloroethene | 7.4 | U |
| 591-78-6 | 2-Hexanone | 15 | U |
| 124-48-1 | Dibromochloromethane | 7.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.4 | U |
| 108-90-7 | Chlorobenzene | 7.4 | U |
| 100-41-4 | Ethylbenzene | 7.4 | U |
| 179601-23-1 | m, p-Xylene | 7.4 | U |
| 95-47-6 | o-Xylene | 7.4 | U |
| 100-42-5 | Styrene | 7.4 | U |
| 75-25-2 | Bromoform | 7.4 | U |
| 98-82-8 | Isopropylbenzene | 7.4 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.4 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQ1 Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.16 (g/mL) g
 % Solids: 81.1
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 131029A13
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|-------------------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.19 | 32 | NJB <i>U</i> |
| 02 | | Unknown-01 | 13.54 | 89 | JB |
| 03 | | Unknown-02 | 14.71 | 99 | JB |
| 04 | | Unknown-03 | 15.89 | 18 | J |
| 05 | | | | | |
| 06 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

act
12-6-15

²EPA-designated Registry Number. *c.c. = common laboratory contaminants*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1RE

*Not Used
 OCH
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.27 (g/mL) g
 % Solids: 81.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 131031A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.2 | U |
| 74-87-3 | Chloromethane | 7.2 | U |
| 75-01-4 | Vinyl chloride | 7.2 | U |
| 74-83-9 | Bromomethane | 7.2 | U |
| 75-00-3 | Chloroethane | 7.2 | U |
| 75-69-4 | Trichlorofluoromethane | 7.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.2 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon disulfide | 7.2 | U |
| 79-20-9 | Methyl acetate | 7.2 | U |
| 75-09-2 | Methylene chloride | 7.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.2 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.2 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 74-97-5 | Bromochloromethane | 7.2 | U |
| 67-66-3 | Chloroform | 7.2 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.3 | J |
| 110-82-7 | Cyclohexane | 7.2 | U |
| 56-23-5 | Carbon tetrachloride | 7.2 | U |
| 71-43-2 | Benzene | 7.2 | U |
| 107-06-2 | 1,2-Dichloroethane | 7.2 | U |
| 79-01-6 | Trichloroethene | 7.2 | U |
| 108-87-2 | Methylcyclohexane | 5.8 | J |
| 78-87-5 | 1,2-Dichloropropane | 7.2 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.27 (g/mL) g
 % Solids: 81.1
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 131031A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.2 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 14 | U |
| 108-88-3 | Toluene | 7.2 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.2 | U |
| 127-18-4 | Tetrachloroethene | 7.2 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 124-48-1 | Dibromochloromethane | 7.2 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.2 | U |
| 108-90-7 | Chlorobenzene | 7.2 | U |
| 100-41-4 | Ethylbenzene | 7.2 | U |
| 179601-23-1 | m, p-Xylene | 7.2 | U |
| 95-47-6 | o-Xylene | 7.2 | U |
| 100-42-5 | Styrene | 7.2 | U |
| 75-25-2 | Bromoform | 7.2 | U |
| 98-82-8 | Isopropylbenzene | 7.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.2 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.2 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ1RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.27 (g/mL) g
 % Solids: 81.1
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 131031A11
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|----------------|-------------|
| 01 | <u>556-67-2</u> | Unknown-01 <u>Cyclotetrasiloxane, octa</u> | 12.19 | <u>c.c.</u> 31 | <u>JB</u> 0 |
| 02 | 127-91-3 | .beta.-Pinene | 12.46 | 22 | NJ |
| 03 | | Unknown-02 | 13.24 | 14 | J |
| 04 | 13466-78-9 | 3-Carene | 13.40 | 24 | NJ |
| 05 | | Unknown-03 | 13.54 | 89 | JB |
| 06 | | Unknown-04 | 14.71 | 120 | J |
| 07 | | Unknown-05 | 15.89 | 21 | J |
| 08 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

ack
 12-10-18

²EPA-designated Registry Number. *c.e. = common laboratory contaminant*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.17 (g/mL) g
 % Solids: 82.9
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 131029A14
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.2 | U |
| 74-87-3 | Chloromethane | 7.2 | U |
| 75-01-4 | Vinyl chloride | 7.2 | U |
| 74-83-9 | Bromomethane | 7.2 | U |
| 75-00-3 | Chloroethane | 7.2 | U |
| 75-69-4 | Trichlorofluoromethane | 7.2 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.2 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.2 | U |
| 67-64-1 | Acetone | 5.5 | J |
| 75-15-0 | Carbon disulfide | 7.2 | U |
| 79-20-9 | Methyl acetate | 7.2 | U |
| 75-09-2 | Methylene chloride | 7.2 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.2 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.2 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.2 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.2 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 74-97-5 | Bromochloromethane | 7.2 | U |
| 67-66-3 | Chloroform | 7.2 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 7.2 | U |
| 110-82-7 | Cyclohexane | 7.2 | U |
| 56-23-5 | Carbon tetrachloride | 7.2 | U |
| 71-43-2 | Benzene | 11 | |
| 107-06-2 | 1,2-Dichloroethane | 7.2 | U |
| 79-01-6 | Trichloroethene | 7.2 | U |
| 108-87-2 | Methylcyclohexane | 6.5 | J |
| 78-87-5 | 1,2-Dichloropropane | 7.2 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-019
 Sample wt/vol: 4.17 (g/mL) g Lab File ID: 131029A14
 % Solids: 82.9 Date Received: 10/24/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/29/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.2 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.2 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 14 | U |
| 108-88-3 | Toluene | 6.6 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.2 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.2 | U |
| 127-18-4 | Tetrachloroethene | 7.2 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 124-48-1 | Dibromochloromethane | 7.2 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.2 | U |
| 108-90-7 | Chlorobenzene | 7.2 | U |
| 100-41-4 | Ethylbenzene | 7.2 | U |
| 179601-23-1 | m, p-Xylene | 7.2 | U |
| 95-47-6 | o-Xylene | 7.2 | U |
| 100-42-5 | Styrene | 7.2 | U |
| 75-25-2 | Bromoform | 7.2 | U |
| 98-82-8 | Isopropylbenzene | 7.2 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.2 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.2 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.2 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.2 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.2 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.2 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.2 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EST. CONC. NO.
ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.17 (g/mL) g
 % Solids: 82.9
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 131029A14
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

aca
12-10-18

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|----------------|------------------------|
| 01 | <u>556-67-2</u> | Unknown-01 <u>Cyclotetrasiloxane, octa-</u> | 12.19 | <u>c.c.</u> 27 | JB <u>U</u> |
| 02 | | Unknown-02 | 13.54 | 73 | JB |
| 03 | | Unknown-03 | 14.71 | 91 | JB |
| 04 | | Unknown-04 | 15.90 | 17 | JB |
| 05 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number. *c.c. = common laboratory contaminant*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.95 (g/mL) 9
 % Solids: 82.9
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 131031A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____
 _____ ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.6 | U |
| 74-87-3 | Chloromethane | 7.6 | U |
| 75-01-4 | Vinyl chloride | 7.6 | U |
| 74-83-9 | Bromomethane | 7.6 | U |
| 75-00-3 | Chloroethane | 7.6 | U |
| 75-69-4 | Trichlorofluoromethane | 7.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.6 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.6 | U |
| 67-64-1 | Acetone | 15 | U |
| 75-15-0 | Carbon disulfide | 7.6 | U |
| 79-20-9 | Methyl acetate | 7.6 | U |
| 75-09-2 | Methylene chloride | 7.6 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.6 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.6 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.6 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.6 | U |
| 78-93-3 | 2-Butanone | 15 | U |
| 74-97-5 | Bromochloromethane | 7.6 | U |
| 67-66-3 | Chloroform | 7.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.2 | J |
| 110-82-7 | Cyclohexane | 7.6 | U |
| 56-23-5 | Carbon tetrachloride | 7.6 | U |
| 71-43-2 | Benzene | 7.6 | U |
| 107-06-2 | 1,2-Dichloroethane | 7.6 | U |
| 79-01-6 | Trichloroethene | 7.6 | U |
| 108-87-2 | Methylcyclohexane | 3.0 | J |
| 78-87-5 | 1,2-Dichloropropane | 7.6 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2RE

*Not Used
 ACK
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.95 (g/mL) g
 % Solids: 82.9
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 131031A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.6 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 15 | U |
| 108-88-3 | Toluene | 7.6 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.6 | U |
| 127-18-4 | Tetrachloroethene | 7.6 | U |
| 591-78-6 | 2-Hexanone | 15 | U |
| 124-48-1 | Dibromochloromethane | 7.6 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.6 | U |
| 108-90-7 | Chlorobenzene | 7.6 | U |
| 100-41-4 | Ethylbenzene | 7.6 | U |
| 179601-23-1 | m, p-Xylene | 7.6 | U |
| 95-47-6 | o-Xylene | 7.6 | U |
| 100-42-5 | Styrene | 7.6 | U |
| 75-25-2 | Bromoform | 7.6 | U |
| 98-82-8 | Isopropylbenzene | 7.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.6 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.6 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.6 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.6 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ2RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.95 (g/mL) g
 % Solids: 82.9
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 131031A12
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------------|--|--------------|---------------|-----------|
| 01 | <u>556-67-2</u> | <u>Unknown-01 Cyclohexasiloxane, octa-</u> | <u>12.19</u> | <u>c.c 39</u> | <u>JB</u> |
| 02 | | <u>Unknown-02</u> | <u>13.54</u> | <u>80</u> | <u>JB</u> |
| 03 | | <u>Unknown-03</u> | <u>14.71</u> | <u>66</u> | <u>J</u> |
| 04 | | <u>Unknown-04</u> | <u>15.90</u> | <u>47</u> | <u>J</u> |
| 05 | | | | | |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | <u>E966796²</u> | <u>Total Alkanes</u> | <u>N/A</u> | | |

act
 12-10-18

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

*Not Used
 ACK
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.87 (g/mL) g
 % Solids: 81.4
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 131029A15
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.9 | U |
| 74-87-3 | Chloromethane | 7.9 | U |
| 75-01-4 | Vinyl chloride | 7.9 | U |
| 74-83-9 | Bromomethane | 7.9 | U |
| 75-00-3 | Chloroethane | 7.9 | U |
| 75-69-4 | Trichlorofluoromethane | 7.9 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.9 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.9 | U |
| 67-64-1 | Acetone | 16 | U |
| 75-15-0 | Carbon disulfide | 7.9 | U |
| 79-20-9 | Methyl acetate | 7.9 | U |
| 75-09-2 | Methylene chloride | 7.9 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.9 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.9 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.9 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 74-97-5 | Bromochloromethane | 7.9 | U |
| 67-66-3 | Chloroform | 7.9 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 7.9 | U |
| 110-82-7 | Cyclohexane | 7.9 | U |
| 56-23-5 | Carbon tetrachloride | 7.9 | U |
| 71-43-2 | Benzene | 7.9 | U |
| 107-06-2 | 1,2-Dichloroethane | 7.9 | U |
| 79-01-6 | Trichloroethene | 7.9 | U |
| 108-87-2 | Methylcyclohexane | 7.9 | U |
| 78-87-5 | 1,2-Dichloropropane | 7.9 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.87 (g/mL) g
 % Solids: 81.4
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 131029A15
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.9 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 16 | U |
| 108-88-3 | Toluene | 7.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.9 | U |
| 127-18-4 | Tetrachloroethene | 7.9 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 124-48-1 | Dibromochloromethane | 7.9 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.9 | U |
| 108-90-7 | Chlorobenzene | 7.9 | U |
| 100-41-4 | Ethylbenzene | 7.9 | U |
| 179601-23-1 | m, p-Xylene | 7.9 | U |
| 95-47-6 | o-Xylene | 7.9 | U |
| 100-42-5 | Styrene | 7.9 | U |
| 75-25-2 | Bromoform | 7.9 | U |
| 98-82-8 | Isopropylbenzene | 7.9 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.9 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.9 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.9 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 3.87 (g/mL) g
 % Solids: 81.4
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 131029A15
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------------|---------------|-----|------------|---|
| 01 | | | | |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
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| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.35 (g/mL) 9
 % Solids: 81.4
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 131031A13
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 7.1 | U |
| 74-87-3 | Chloromethane | 7.1 | U |
| 75-01-4 | Vinyl chloride | 7.1 | U |
| 74-83-9 | Bromomethane | 7.1 | U |
| 75-00-3 | Chloroethane | 7.1 | U |
| 75-69-4 | Trichlorofluoromethane | 7.1 | U |
| 75-35-4 | 1,1-Dichloroethene | 7.1 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 7.1 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon disulfide | 7.1 | U |
| 79-20-9 | Methyl acetate | 7.1 | U |
| 75-09-2 | Methylene chloride | 7.1 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.1 | U |
| 1634-04-4 | Methyl tert-butyl ether | 7.1 | U |
| 75-34-3 | 1,1-Dichloroethane | 7.1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.1 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 74-97-5 | Bromochloromethane | 7.1 | U |
| 67-66-3 | Chloroform | 7.1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2.5 | J |
| 110-82-7 | Cyclohexane | 7.1 | U |
| 56-23-5 | Carbon tetrachloride | 7.1 | U |
| 71-43-2 | Benzene | 4.1 | J |
| 107-06-2 | 1,2-Dichloroethane | 7.1 | U |
| 79-01-6 | Trichloroethene | 7.1 | U |
| 108-87-2 | Methylcyclohexane | 3.3 | J |
| 78-87-5 | 1,2-Dichloropropane | 7.1 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-020
 Sample wt/vol: 4.35 (g/mL) g Lab File ID: 131031A13
 % Solids: 81.4 Date Received: 10/24/2018
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/31/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 7.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 14 | U |
| 108-88-3 | Toluene | 2.0 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 7.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 7.1 | U |
| 127-18-4 | Tetrachloroethene | 7.1 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 124-48-1 | Dibromochloromethane | 7.1 | U |
| 106-93-4 | 1,2-Dibromoethane | 7.1 | U |
| 108-90-7 | Chlorobenzene | 7.1 | U |
| 100-41-4 | Ethylbenzene | 7.1 | U |
| 179601-23-1 | m, p-Xylene | 7.1 | U |
| 95-47-6 | o-Xylene | 7.1 | U |
| 100-42-5 | Styrene | 7.1 | U |
| 75-25-2 | Bromoform | 7.1 | U |
| 98-82-8 | Isopropylbenzene | 7.1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 7.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 7.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 7.1 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 7.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7.1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.1 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ3RE

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 4.35 (g/mL) g
 % Solids: 81.4
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 131031A13
 Date Received: 10/24/2018
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|----------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.19 | 11 | NJU |
| 02 | 127-91-3 | .beta.-Pinene | 12.46 | 7.2 | NJ |
| 03 | | Unknown-01 | 13.54 | 34 | JB |
| 04 | | Unknown-02 | 14.71 | 48 | J |
| 05 | | Unknown-03 | 15.90 | 17 | J |
| 06 | | Unknown-04 | 16.70 | 15 | J |
| 07 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

ack
12-10-18

²EPA-designated Registry Number. *c.c. = common laboratory contaminant*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKAZ

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.07 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87946-001
 Lab File ID: 131029A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 4.9 | U |
| 74-87-3 | Chloromethane | 4.9 | U |
| 75-01-4 | Vinyl chloride | 4.9 | U |
| 74-83-9 | Bromomethane | 4.9 | U |
| 75-00-3 | Chloroethane | 4.9 | U |
| 75-69-4 | Trichlorofluoromethane | 4.9 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.9 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 4.9 | U |
| 67-64-1 | Acetone | 9.9 | U |
| 75-15-0 | Carbon disulfide | 4.9 | U |
| 79-20-9 | Methyl acetate | 4.9 | U |
| 75-09-2 | Methylene chloride | 4.9 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.9 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.9 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | U |
| 78-93-3 | 2-Butanone | 9.9 | U |
| 74-97-5 | Bromochloromethane | 4.9 | U |
| 67-66-3 | Chloroform | 4.9 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.9 | U |
| 110-82-7 | Cyclohexane | 4.9 | U |
| 56-23-5 | Carbon tetrachloride | 4.9 | U |
| 71-43-2 | Benzene | 4.9 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.9 | U |
| 79-01-6 | Trichloroethene | 4.9 | U |
| 108-87-2 | Methylcyclohexane | 4.9 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.9 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKAZ

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.07 (g/mL) 9
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87946-001
 Lab File ID: 131029A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 4.9 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.9 | U |
| 108-88-3 | Toluene | 4.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.9 | U |
| 127-18-4 | Tetrachloroethene | 4.9 | U |
| 591-78-6 | 2-Hexanone | 9.9 | U |
| 124-48-1 | Dibromochloromethane | 4.9 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.9 | U |
| 108-90-7 | Chlorobenzene | 4.9 | U |
| 100-41-4 | Ethylbenzene | 4.9 | U |
| 179601-23-1 | m, p-Xylene | 4.9 | U |
| 95-47-6 | o-Xylene | 4.9 | U |
| 100-42-5 | Styrene | 4.9 | U |
| 75-25-2 | Bromoform | 4.9 | U |
| 98-82-8 | Isopropylbenzene | 4.9 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.9 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKAZ

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.07 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87946-001
 Lab File ID: 131029A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/29/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------------|---|--------------|-----------------|-----------|
| 01 | <u>556-67-2</u> | <u>Unknown-01 Cyclohexatetrahydroxane, octa</u> | <u>12.19</u> | <u>C.C. 6.3</u> | <u>JU</u> |
| 02 | | <u>Unknown-02</u> | <u>13.54</u> | <u>6.7</u> | <u>J</u> |
| 03 | | <u>Unknown-03</u> | <u>14.71</u> | <u>12</u> | <u>J</u> |
| 04 | | <u>Unknown-04</u> | <u>15.90</u> | <u>15</u> | <u>J</u> |
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| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | <u>E966796²</u> | <u>Total Alkanes</u> | <u>N/A</u> | | |

ACH
12-10-

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKCM

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.03 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ88210-001
 Lab File ID: 131031A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 74-87-3 | Chloromethane | 5.0 | U |
| 75-01-4 | Vinyl chloride | 5.0 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U |
| 67-64-1 | Acetone | 9.9 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 5.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U |
| 78-93-3 | 2-Butanone | 9.9 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 110-82-7 | Cyclohexane | 5.0 | U |
| 56-23-5 | Carbon tetrachloride | 5.0 | U |
| 71-43-2 | Benzene | 5.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U |
| 79-01-6 | Trichloroethene | 5.0 | U |
| 108-87-2 | Methylcyclohexane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKCM

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.03 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ88210-001
 Lab File ID: 131031A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.9 | U |
| 108-88-3 | Toluene | 5.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 591-78-6 | 2-Hexanone | 5.4 | J |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U |
| 108-90-7 | Chlorobenzene | 5.0 | U |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 179601-23-1 | m, p-Xylene | 5.0 | U |
| 95-47-6 | o-Xylene | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | U |
| 98-82-8 | Isopropylbenzene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCM

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.03 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ88210-001
 Lab File ID: 131031A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|-----------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.e</i> | 12.19 | 5.1 | NO U |
| 02 | | Unknown-01 | 13.54 | 5.2 | J |
| 03 | | | | | |
| 04 | | | | | |
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| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

*ack
12-10-18*

²EPA-designated Registry Number.

c.e. = common laboratory contaminant

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKYN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TQ87571-001
 Sample wt/vol: 5.04 (g/mL) g Lab File ID: 131025A04
 % Solids: 100 Date Received: _____
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/25/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 74-87-3 | Chloromethane | 5.0 | U |
| 75-01-4 | Vinyl chloride | 5.0 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U |
| 67-64-1 | Acetone | 9.9 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 5.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U |
| 78-93-3 | 2-Butanone | 9.9 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 110-82-7 | Cyclohexane | 5.0 | U |
| 56-23-5 | Carbon tetrachloride | 5.0 | U |
| 71-43-2 | Benzene | 5.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U |
| 79-01-6 | Trichloroethene | 5.0 | U |
| 108-87-2 | Methylcyclohexane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VBLKYN

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.04 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87571-001
 Lab File ID: 131025A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.9 | U |
| 108-88-3 | Toluene | 5.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 591-78-6 | 2-Hexanone | 1.9 | J |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U |
| 108-90-7 | Chlorobenzene | 5.0 | U |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 179601-23-1 | m, p-Xylene | 5.0 | U |
| 95-47-6 | o-Xylene | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | U |
| 98-82-8 | Isopropylbenzene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKYN

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.04 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87571-001
 Lab File ID: 131025A04
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/25/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

*act
12-7-18*

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|---------------|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- C.C. | 12.19 | 6.6 | NU |
| 02 | | Unknown-01 | 13.54 | 12 | J |
| 03 | | Unknown-02 | 14.71 | 18 | J |
| 04 | | Unknown-03 | 15.90 | 13 | J |
| 05 | | | | | |
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| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number. **C.C. = common lab contaminant**

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: VOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-008
 Sample wt/vol: 5.04 (g/mL) g Lab File ID: 131031A14
 % Solids: 100 Date Received: _____
 GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 10/31/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 5.0 (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|---------------------------------------|---------------|---|
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 74-87-3 | Chloromethane | 5.0 | U |
| 75-01-4 | Vinyl chloride | 5.0 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U |
| 67-64-1 | Acetone | 9.9 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 5.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U |
| 78-93-3 | 2-Butanone | 9.9 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 110-82-7 | Cyclohexane | 5.0 | U |
| 56-23-5 | Carbon tetrachloride | 5.0 | U |
| 71-43-2 | Benzene | 5.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U |
| 79-01-6 | Trichloroethene | 5.0 | U |
| 108-87-2 | Methylcyclohexane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

VHBLK01

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.04 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-008
 Lab File ID: 131031A14
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: 10/31/2018
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: _____

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-------------|-----------------------------|---------------|---|
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.9 | U |
| 108-88-3 | Toluene | 5.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 591-78-6 | 2-Hexanone | 9.9 | U |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U |
| 108-90-7 | Chlorobenzene | 5.0 | U |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 179601-23-1 | m, p-Xylene | 5.0 | U |
| 95-47-6 | o-Xylene | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | U |
| 98-82-8 | Isopropylbenzene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: VOA
 Matrix: Soil
 Sample wt/vol: 5.04 (g/mL) g
 % Solids: 100
 GC Column: DB-624 ID: 0.25 (mm)
 Extract Concentrated: (Y/N)
 Soil Aliquot (VOA): (uL)
 Heated Purge: (Y/N) Y
 Purge Volume: 5.0 (mL)
 Cleanup Types:
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-008
 Lab File ID: 131031A14
 Date Received:
 Date Extracted:
 Date Analyzed: 10/31/2018
 Extract Volume: (uL)
 Extraction Type: PT
 Injection Volume:
 pH: Dilution Factor: 1.0
 Cleanup Factor:

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|--|
| 01 | 556-67-2 | Cyclotetrasiloxane, octamethyl- <i>c.c.</i> | 12.19 | 7.2 | N/B <input checked="" type="checkbox"/> |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

c.c. = common laboratory contaminant

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: Low
 Matrix: Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): ESNP6
 Instrument ID: Agilent MSD12 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 Concentration Units (ug/L, mg/L, ug/kg): ug/kg

| ANALYTE | SPIKE ADDED | SAMPLE CONCENTRATION | MS CONCENTRATION | MS %REC # | QC LIMITS REC. |
|----------------------------|-------------|----------------------|------------------|-----------|----------------|
| Phenol | 5100 | 0 | 2200 | 86 | 26-90 |
| 2-Chlorophenol | 5100 | 0 | 2100 | 82 | 25-102 |
| N-Nitroso-di-n propylamine | 5100 | 0 | 2100 | 81 | 41-126 |
| 4-Chloro-3-methylphenol | 5100 | 0 | 2300 | 90 | 26-103 |
| Acenaphthene | 5100 | 250 | 2100 | 72 | 31-137 |
| 4-Nitrophenol | 5100 | 0 | 2300 | 91 | 11-114 |
| 2,4-Dinitrotoluene | 5100 | 0 | 2100 | 81 | 28-89 |
| Pentachlorophenol | 5100 | 0 | 2600 | 103 | 17-109 |
| Pyrene | 5100 | 11000 | 7000 | -166 * | 35-142 |

| ANALYTE | SPIKE ADDED | MSD CONCENTRATION | MSD %R # | RPD # | QC LIMITS | |
|----------------------------|-------------|-------------------|----------|-------|-----------|--------|
| | | | | | RPD | %R |
| Phenol | 5200 | 1800 | 69 | 22 | 0-35 | 26-90 |
| 2-Chlorophenol | 5200 | 1600 | 63 | 26 | 0-50 | 25-102 |
| N-Nitroso-di-n propylamine | 5200 | 1700 | 65 | 22 | 0-38 | 41-126 |
| 4-Chloro-3-methylphenol | 5200 | 2000 | 76 | 17 | 0-33 | 26-103 |
| Acenaphthene | 5200 | 1800 | 61 | 17 | 0-19 | 31-137 |
| 4-Nitrophenol | 5200 | 1900 | 72 | 23 | 0-50 | 11-114 |
| 2,4-Dinitrotoluene | 5200 | 1800 | 69 | 16 | 0-47 | 28-89 |
| Pentachlorophenol | 5200 | 2200 | 86 | 18 | 0-47 | 17-109 |
| Pyrene | 5200 | 7500 | -143 * | -15 * | 0-36 | 35-142 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC Limits

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-009
 Sample wt/vol: 30.3 (g/mL) g Lab File ID: 12110820
 % Solids: 25.4 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/08/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|---|
| 123-91-1 | 1,4-Dioxane | 260 | U |
| 100-52-7 | Benzaldehyde | 1300 | U |
| 108-95-2 | Phenol | 1300 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 1300 | U |
| 95-57-8 | 2-Chlorophenol | 660 | U |
| 95-48-7 | 2-Methylphenol | 1300 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1300 | U |
| 98-86-2 | Acetophenone | 350 | J |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 1300 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 660 | U |
| 67-72-1 | Hexachloroethane | 660 | U |
| 98-95-3 | Nitrobenzene | 660 | U |
| 78-59-1 | Isophorone | 660 | U |
| 88-75-5 | 2-Nitrophenol | 660 | U |
| 105-67-9 | 2,4-Dimethylphenol | 660 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 660 | U |
| 120-83-2 | 2,4-Dichlorophenol | 660 | U |
| 91-20-3 | Naphthalene | 120 | J |
| 106-47-8 | 4-Chloroaniline | 1300 | U |
| 87-68-3 | Hexachlorobutadiene | 660 | U |
| 105-60-2 | Caprolactam | 1300 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 660 | U |
| 91-57-6 | 2-Methylnaphthalene | 660 | U |
| 77-47-4 | Hexachlorocyclo-pentadiene | 1300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 660 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 660 | U |
| 92-52-4 | 1,1'-Biphenyl | 660 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 25.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-009
 Lab File ID: 12110820
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/08/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|---|
| 91-58-7 | 2-Chloronaphthalene | 660 | U |
| 88-74-4 | 2-Nitroaniline | 660 | U |
| 131-11-3 | Dimethylphthalate | 660 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 660 | U |
| 208-96-8 | Acenaphthylene | 170 | J |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 120 | J |
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 120 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 660 | U |
| 84-66-2 | Diethylphthalate | 660 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 660 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 660 | U |
| 86-73-7 | Fluorene | 220 | J |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 660 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 660 | U |
| 118-74-1 | Hexachlorobenzene | 660 | U |
| 1912-24-9 | Atrazine | 1300 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 630 | J |
| 120-12-7 | Anthracene | 240 | J |
| 86-74-8 | Carbazole | 1300 | U |
| 84-74-2 | Di-n-butylphthalate | 660 | U |
| 206-44-0 | Fluoranthene | 1600 | |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-009
 Sample wt/vol: 30.3 (g/mL) g Lab File ID: 12110820
 % Solids: 25.4 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/08/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|------------------------------|---------------|--------------|
| 129-00-0 | Pyrene | 1200 | |
| 85-68-7 | Butylbenzylphthalate | 660 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1300 | U |
| 56-55-3 | Benzo (a) anthracene | 740 | |
| 218-01-9 | Chrysene | 970 | |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 170 | J |
| 117-84-0 | Di-n-octylphthalate | 1300 | U |
| 205-99-2 | Benzo (b) fluoranthene | 1300 | |
| 207-08-9 | Benzo (k) fluoranthene | 460 | J |
| 50-32-8 | Benzo (a) pyrene | 820 | |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 590 | J |
| 53-70-3 | Dibenzo (a,h) anthracene | 660 | U |
| 191-24-2 | Benzo (g,h,i) perylene | 660 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 660 | U |

ack
12-10-8

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 25.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-009
 Lab File ID: 12110820
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/08/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---|-------|------------|----|
| 01 | | | | | |
| 02 | | Unknown-01 | 9.40 | 1000 | J |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | Unknown-02 | 10.26 | 2600 | J |
| 06 | | Unknown-03 | 10.43 | 660 | J |
| 07 | | Unknown-04 | 11.19 | 560 | J |
| 08 | | Unknown-05 | 12.03 | 1300 | J |
| 09 | | Unknown-06 | 12.82 | 780 | J |
| 10 | 506-52-5 | 1-Hexacosanol | 12.96 | 3800 | NJ |
| 11 | 111-02-4 | Squalene | 13.61 | 4400 | NJ |
| 12 | | Unknown-07 | 13.63 | 8900 | J |
| 13 | 36653-82-4 | 1-Hexadecanol | 14.05 | 1000 | NJ |
| 14 | | Unknown-08 | 14.12 | 1900 | J |
| 15 | | Unknown-09 | 14.71 | 10000 | J |
| 16 | | Unknown-10 | 14.99 | 820 | J |
| 17 | | Unknown-11 | 15.07 | 700 | J |
| 18 | | Unknown-12 | 15.21 | 1100 | J |
| 19 | 55373-89-2 | Pentacosanoic acid, methyl ester | 15.33 | 1700 | NJ |
| 20 | | Unknown-13 | 16.03 | 720 | J |
| 21 | | Unknown-14 | 16.31 | 1100 | J |
| 22 | | Unknown-15 | 16.67 | 680 | J |
| 23 | | Unknown-16 | 16.77 | 5900 | J |
| 24 | | Unknown-17 | 17.07 | 730 | J |
| 25 | | Unknown-18 | 17.29 | 6100 | J |
| 26 | | Unknown-19 | 17.56 | 5900 | J |
| 27 | 1000194-64-2 | 4, 4, 6a, 6b, 8a, 11, 12, 14b-Octamethyl-1, 4, 4a | 18.09 | 1500 | NJ |
| 28 | 13952-76-6 | Lup-20 (29)-en-28-ol | 18.33 | 710 | NJ |
| 29 | | Unknown-20 | 19.75 | 5200 | J |
| 30 | | Unknown-21 | 20.71 | 2700 | J |
| | E966796 ² | Total Alkanes | N/A | 6200 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) 9
 % Solids: 38.1
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-010
 Lab File ID: 12110821
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/08/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|---|
| 123-91-1 | 1,4-Dioxane | 170 | U |
| 100-52-7 | Benzaldehyde | 860 | U |
| 108-95-2 | Phenol | 860 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 860 | U |
| 95-57-8 | 2-Chlorophenol | 440 | U |
| 95-48-7 | 2-Methylphenol | 860 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 860 | U |
| 98-86-2 | Acetophenone | 860 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 860 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 440 | U |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 440 | U |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 91-20-3 | Naphthalene | 210 | J |
| 106-47-8 | 4-Chloroaniline | 860 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 105-60-2 | Caprolactam | 860 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 440 | U |
| 91-57-6 | 2-Methylnaphthalene | 160 | J |
| 77-47-4 | Hexachlorocyclo-pentadiene | 860 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 440 | U |
| 92-52-4 | 1,1'-Biphenyl | 440 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 38.1
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-010
 Lab File ID: 12110821
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/08/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|---|
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 440 | U |
| 131-11-3 | Dimethylphthalate | 440 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 208-96-8 | Acenaphthylene | 97 | J |
| 99-09-2 | 3-Nitroaniline | 860 | U |
| 83-32-9 | Acenaphthene | 89 | J |
| 51-28-5 | 2,4-Dinitrophenol | 860 | U |
| 100-02-7 | 4-Nitrophenol | 860 | U |
| 132-64-9 | Dibenzofuran | 130 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 440 | U |
| 84-66-2 | Diethylphthalate | 440 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 440 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 440 | U |
| 86-73-7 | Fluorene | 150 | J |
| 100-01-6 | 4-Nitroaniline | 860 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 860 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 440 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 440 | U |
| 118-74-1 | Hexachlorobenzene | 440 | U |
| 1912-24-9 | Atrazine | 860 | U |
| 87-86-5 | Pentachlorophenol | 860 | U |
| 85-01-8 | Phenanthrene | 490 | |
| 120-12-7 | Anthracene | 170 | J |
| 86-74-8 | Carbazole | 860 | U |
| 84-74-2 | Di-n-butylphthalate | 440 | U |
| 206-44-0 | Fluoranthene | 970 | |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 38.1
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-010
 Lab File ID: 12110821
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/08/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--------------------|-------|------------|----|
| 01 | | | | | |
| 02 | | Unknown-01 | 10.26 | 3500 | J |
| 03 | | | | | |
| 04 | | Unknown-02 | 12.03 | 740 | J |
| 05 | | Unknown-03 | 12.82 | 790 | J |
| 06 | | Unknown-04 | 12.96 | 660 | J |
| 07 | 7683-64-9 | Supraene | 13.61 | 990 | NJ |
| 08 | | | | | |
| 09 | 192-97-2 | Benzo[e]pyrene | 14.13 | 630 | NJ |
| 10 | | Unknown-05 | 14.34 | 390 | J |
| 11 | 198-55-0 | Perylene | 14.41 | 390 | NJ |
| 12 | | Unknown-06 | 14.71 | 2400 | J |
| 13 | | Unknown-07 | 14.99 | 480 | J |
| 14 | | | | | |
| 15 | | Unknown-08 | 15.52 | 440 | J |
| 16 | 516-95-0 | Epicholestanol | 15.84 | 390 | NJ |
| 17 | | Unknown-09 | 16.31 | 680 | J |
| 18 | | Unknown-10 | 16.67 | 390 | J |
| 19 | | Unknown-11 | 16.75 | 1600 | J |
| 20 | | Unknown-12 | 16.88 | 510 | J |
| 21 | | Unknown-13 | 16.98 | 570 | J |
| 22 | 83-47-6 | .gamma.-Sitosterol | 17.30 | 4800 | NJ |
| 23 | | Unknown-14 | 17.40 | 1400 | J |
| 24 | 19466-47-8 | Stigmastanol | 17.44 | 3200 | NJ |
| 25 | | Unknown-15 | 17.57 | 2700 | J |
| 26 | | Unknown-16 | 17.81 | 810 | J |
| 27 | | Unknown-17 | 18.64 | 670 | J |
| 28 | | Unknown-18 | 19.74 | 2900 | J |
| 29 | | Unknown-19 | 20.29 | 590 | J |
| 30 | | Unknown-20 | 20.72 | 1600 | J |
| | E966796 ² | Total Alkanes | N/A | 4400 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) 9
 % Solids: 42.4
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-011
 Lab File ID: 12110219
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 780 | U |
| 100-52-7 | Benzaldehyde | 3800 | U |
| 108-95-2 | Phenol | 3800 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 3800 | U |
| 95-57-8 | 2-Chlorophenol | 2000 | U |
| 95-48-7 | 2-Methylphenol | 3800 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 3800 | U |
| 98-86-2 | Acetophenone | 3800 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 3800 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 2000 | U |
| 67-72-1 | Hexachloroethane | 2000 | U |
| 98-95-3 | Nitrobenzene | 2000 | U |
| 78-59-1 | Isophorone | 2000 | U |
| 88-75-5 | 2-Nitrophenol | 2000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 2000 | U |
| 91-20-3 | Naphthalene | 1900 | J D |
| 106-47-8 | 4-Chloroaniline | 630 | J D |
| 87-68-3 | Hexachlorobutadiene | 2000 | U |
| 105-60-2 | Caprolactam | 3800 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 2000 | U |
| 91-57-6 | 2-Methylnaphthalene | 940 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 3800 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 92-52-4 | 1,1'-Biphenyl | 260 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-011
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: 12110219
 % Solids: 42.4 Date Received: 10/24/2018
 GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 2000 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 2000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2000 | U |
| 208-96-8 | Acenaphthylene | 1300 | J D |
| 99-09-2 | 3-Nitroaniline | 3800 | U |
| 83-32-9 | Acenaphthene | 300 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 3800 | U |
| 100-02-7 | 4-Nitrophenol | 3800 | U |
| 132-64-9 | Dibenzofuran | 790 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | U |
| 84-66-2 | Diethylphthalate | 2000 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 2000 | U |
| 86-73-7 | Fluorene | 590 | J D |
| 100-01-6 | 4-Nitroaniline | 3800 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3800 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 2000 | U |
| 118-74-1 | Hexachlorobenzene | 2000 | U |
| 1912-24-9 | Atrazine | 3800 | U |
| 87-86-5 | Pentachlorophenol | 3800 | U |
| 85-01-8 | Phenanthrene | 4300 | D |
| 120-12-7 | Anthracene | 1800 | J D |
| 86-74-8 | Carbazole | 540 | J D |
| 84-74-2 | Di-n-butylphthalate | 2000 | U |
| 206-44-0 | Fluoranthene | 8600 | D |

ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

ESNP4

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-011
 Sample wt/vol: 30.5 (g/mL) 9 Lab File ID: 12110219
 % Solids: 42.4 Date Received: 10/24/2018
 GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|------------------------------|---------------|-----|
| 129-00-0 | Pyrene | 7700 | D |
| 85-68-7 | Butylbenzylphthalate | 2000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 3800 | U |
| 56-55-3 | Benzo (a) anthracene | 5400 | D |
| 218-01-9 | Chrysene | 6600 | D |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 630 | J D |
| 117-84-0 | Di-n-octylphthalate | 3800 | U |
| 205-99-2 | Benzo (b) fluoranthene | 9300 | D |
| 207-08-9 | Benzo (k) fluoranthene | 3400 | D |
| 50-32-8 | Benzo (a) pyrene | 6100 | D |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 4400 | D |
| 53-70-3 | Dibenzo (a,h) anthracene | 2000 | U |
| 191-24-2 | Benzo (g,h,i) perylene | 4100 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2000 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 42.4
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-011
 Lab File ID: 12110219
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|--|-------|------------|------|
| 01 | | | | |
| 02 | Unknown-01 | 10.01 | 1800 | J D |
| 03 | | | | |
| 04 | Unknown-02 | 10.13 | 2500 | J D |
| 05 | Unknown-03 | 10.44 | 1700 | J D |
| 06 | Unknown-04 | 11.29 | 780 | J D |
| 07 | 243-17-4 11H-Benzo[b]fluorene | 11.36 | 990 | NJ D |
| 08 | 2381-21-7 Pyrene, 1-methyl- | 11.53 | 1000 | NJ D |
| 09 | | | | |
| 10 | 479-79-8 11H-Benzo[a]fluoren-11-one | 11.90 | 780 | NJ D |
| 11 | Unknown-05 | 12.05 | 2000 | J D |
| 12 | Unknown-06 | 12.56 | 1300 | J D |
| 13 | 1000305-22-4 1H-Benz[f]indene, 2-phenyl- | 12.97 | 1500 | NJ D |
| 14 | Unknown-07 | 13.17 | 980 | J D |
| 15 | Unknown-08 | 13.50 | 810 | J D |
| 16 | Unknown-09 | 13.58 | 1600 | J D |
| 17 | Unknown-10 | 13.75 | 1600 | J D |
| 18 | Unknown-11 | 13.87 | 1100 | J D |
| 19 | 198-55-0 Perylene | 14.15 | 2400 | NJ D |
| 20 | 192-97-2 Benzo[e]pyrene | 14.43 | 4700 | NJ D |
| 21 | Unknown-12 | 14.64 | 2500 | J D |
| 22 | Unknown-13 | 15.04 | 1200 | J D |
| 23 | | | | |
| 24 | Unknown-14 | 15.55 | 1200 | J D |
| 25 | Unknown-15 | 16.13 | 2100 | J D |
| 26 | Unknown-16 | 17.49 | 2300 | J D |
| 27 | Unknown-17 | 17.57 | 1600 | J D |
| 28 | | | | |
| 29 | | | | |
| 30 | E966796 ² Total Alkanes | N/A | 6800 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) 9
 % Solids: 67.0
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-012
 Lab File ID: 12110220
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 500 | U |
| 100-52-7 | Benzaldehyde | 2400 | U |
| 108-95-2 | Phenol | 2400 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 2400 | U |
| 95-57-8 | 2-Chlorophenol | 1300 | U |
| 95-48-7 | 2-Methylphenol | 2400 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 2400 | U |
| 98-86-2 | Acetophenone | 2400 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 2400 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1300 | U |
| 67-72-1 | Hexachloroethane | 1300 | U |
| 98-95-3 | Nitrobenzene | 1300 | U |
| 78-59-1 | Isophorone | 1300 | U |
| 88-75-5 | 2-Nitrophenol | 1300 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1300 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1300 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1300 | U |
| 91-20-3 | Naphthalene | 460 | J D |
| 106-47-8 | 4-Chloroaniline | 2400 | U |
| 87-68-3 | Hexachlorobutadiene | 1300 | U |
| 105-60-2 | Caprolactam | 2400 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1300 | U |
| 91-57-6 | 2-Methylnaphthalene | 520 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 2400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1300 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 92-52-4 | 1,1'-Biphenyl | 1300 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 67.0
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-012
 Lab File ID: 12110220
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1300 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 1300 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1300 | U |
| 208-96-8 | Acenaphthylene | 470 | J D |
| 99-09-2 | 3-Nitroaniline | 2400 | U |
| 83-32-9 | Acenaphthene | 1300 | U |
| 51-28-5 | 2,4-Dinitrophenol | 2400 | U |
| 100-02-7 | 4-Nitrophenol | 2400 | U |
| 132-64-9 | Dibenzofuran | 270 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 1300 | U |
| 84-66-2 | Diethylphthalate | 1300 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1300 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1300 | U |
| 86-73-7 | Fluorene | 1300 | U |
| 100-01-6 | 4-Nitroaniline | 2400 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2400 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1300 | U |
| 118-74-1 | Hexachlorobenzene | 1300 | U |
| 1912-24-9 | Atrazine | 2400 | U |
| 87-86-5 | Pentachlorophenol | 2400 | U |
| 85-01-8 | Phenanthrene | 2600 | D |
| 120-12-7 | Anthracene | 590 | J D |
| 86-74-8 | Carbazole | 330 | J D |
| 84-74-2 | Di-n-butylphthalate | 1300 | U |
| 206-44-0 | Fluoranthene | 3800 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 67.0
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-012
 Lab File ID: 12110220
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 3600 | D |
| 85-68-7 | Butylbenzylphthalate | 1300 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2400 | U |
| 56-55-3 | Benzo(a)anthracene | 2900 | D |
| 218-01-9 | Chrysene | 3400 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1300 | U |
| 117-84-0 | Di-n-octylphthalate | 2400 | U |
| 205-99-2 | Benzo(b)fluoranthene | 4800 | D |
| 207-08-9 | Benzo(k)fluoranthene | 1900 | D |
| 50-32-8 | Benzo(a)pyrene | 3100 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2500 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1300 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 2400 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1300 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 67.0
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-012
 Lab File ID: 12110220
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------------------------|-------|------------|------|
| 01 | | Unknown-01 | 9.01 | 2800 | J D |
| 02 | | Unknown-02 | 9.35 | 790 | J D |
| 03 | | Unknown-03 | 9.41 | 1300 | J D |
| 04 | | Unknown-04 | 9.74 | 1000 | J D |
| 05 | 610-48-0 | Anthracene, 1-methyl- | 10.01 | 890 | NJ D |
| 06 | 107426-38-0 | Naphtho[2,3-b]norbornadiene | 10.04 | 1100 | NJ D |
| 07 | | | | | |
| 08 | 779-02-2 | Anthracene, 9-methyl- | 10.12 | 1400 | NJ D |
| 09 | | Unknown-05 | 10.44 | 780 | J D |
| 10 | | Unknown-06 | 10.55 | 850 | J D |
| 11 | 238-84-6 | 11H-Benzo[a]fluorene | 11.28 | 570 | NJ D |
| 12 | 82-05-3 | 7H-Benz[de]anthracen-7-one | 11.90 | 600 | NJ D |
| 13 | 243-46-9 | Benzo[b]naphtho[2,3-d]thiophene | 12.05 | 1500 | NJ D |
| 14 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 12.18 | 560 | NJ D |
| 15 | | Unknown-07 | 12.51 | 510 | J D |
| 16 | | Unknown-08 | 12.62 | 680 | J D |
| 17 | 1000305-22-4 | 1H-Benz[f]indene, 2-phenyl- | 12.97 | 1100 | NJ D |
| 18 | | Unknown-09 | 13.50 | 650 | J D |
| 19 | | Unknown-10 | 13.76 | 680 | J D |
| 20 | 192-97-2 | Benzo[e]pyrene | 14.15 | 1100 | NJ D |
| 21 | | Unknown-11 | 14.27 | 720 | J D |
| 22 | 198-55-0 | Perylene | 14.43 | 3000 | NJ D |
| 23 | 205-82-3 | Benzo[j]fluoranthene | 14.64 | 1400 | NJ D |
| 24 | | Unknown-12 | 16.13 | 860 | J D |
| 25 | 213-46-7 | Picene | 16.81 | 710 | NJ D |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | 790 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-013
 Sample wt/vol: 30.3 (g/mL) g Lab File ID: 12110221
 % Solids: 51.5 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 640 | U |
| 100-52-7 | Benzaldehyde | 3200 | U |
| 108-95-2 | Phenol | 3200 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 3200 | U |
| 95-57-8 | 2-Chlorophenol | 1600 | U |
| 95-48-7 | 2-Methylphenol | 3200 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 3200 | U |
| 98-86-2 | Acetophenone | 3200 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 3200 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1600 | U |
| 67-72-1 | Hexachloroethane | 1600 | U |
| 98-95-3 | Nitrobenzene | 1600 | U |
| 78-59-1 | Isophorone | 1600 | U |
| 88-75-5 | 2-Nitrophenol | 1600 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1600 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | U |
| 91-20-3 | Naphthalene | 700 | J D |
| 106-47-8 | 4-Chloroaniline | 3200 | U |
| 87-68-3 | Hexachlorobutadiene | 1600 | U |
| 105-60-2 | Caprolactam | 3200 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | U |
| 91-57-6 | 2-Methylnaphthalene | 490 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 3200 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1600 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | U |
| 92-52-4 | 1,1'-Biphenyl | 1600 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 51.5
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013
 Lab File ID: 12110221
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1600 | U |
| 88-74-4 | 2-Nitroaniline | 1600 | U |
| 131-11-3 | Dimethylphthalate | 1600 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | U |
| 208-96-8 | Acenaphthylene | 1200 | J D |
| 99-09-2 | 3-Nitroaniline | 3200 | U |
| 83-32-9 | Acenaphthene | 250 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | U |
| 100-02-7 | 4-Nitrophenol | 3200 | U |
| 132-64-9 | Dibenzofuran | 430 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | U |
| 84-66-2 | Diethylphthalate | 1600 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1600 | U |
| 86-73-7 | Fluorene | 190 | J D |
| 100-01-6 | 4-Nitroaniline | 3200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3200 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1600 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1600 | U |
| 118-74-1 | Hexachlorobenzene | 1600 | U |
| 1912-24-9 | Atrazine | 3200 | U |
| 87-86-5 | Pentachlorophenol | 3200 | U |
| 85-01-8 | Phenanthrene | 1700 | D |
| 120-12-7 | Anthracene | 1400 | J D |
| 86-74-8 | Carbazole | 590 | J D |
| 84-74-2 | Di-n-butylphthalate | 1600 | U |
| 206-44-0 | Fluoranthene | 9500 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-013
 Sample wt/vol: 30.3 (g/mL) g Lab File ID: 12110221
 % Solids: 51.5 Date Received: 10/24/2018
 GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 11000 | D |
| 85-68-7 | Butylbenzylphthalate | 1600 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 3200 | U |
| 56-55-3 | Benzo(a)anthracene | 5900 | D |
| 218-01-9 | Chrysene | 9100 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1600 | U |
| 117-84-0 | Di-n-octylphthalate | 3200 | U |
| 205-99-2 | Benzo(b)fluoranthene | 14000 | D |
| 207-08-9 | Benzo(k)fluoranthene | 18000 | D |
| 50-32-8 | Benzo(a)pyrene | 7800 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 6400 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 2000 | D |
| 191-24-2 | Benzo(g,h,i)perylene | 5700 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1600 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 51.5
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) -----
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013
 Lab File ID: 12110221
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|------|
| 01 | | Unknown-01 | 10.62 | 1700 | J D |
| 02 | | Unknown-02 | 10.78 | 1600 | J D |
| 03 | | Unknown-03 | 10.84 | 1600 | J D |
| 04 | 1210-12-4 | 9-Anthracenecarbonitrile | 11.11 | 740 | NJ D |
| 05 | 33543-31-6 | Fluoranthene, 2-methyl- | 11.16 | 780 | NJ D |
| 06 | | Unknown-04 | 11.26 | 890 | J D |
| 07 | 243-17-4 | 11H-Benzo[b]fluorene | 11.28 | 770 | NJ D |
| 08 | 3442-78-2 | Pyrene, 2-methyl- | 11.41 | 1200 | NJ D |
| 09 | | Unknown-05 | 11.53 | 980 | J D |
| 10 | 2381-21-7 | Pyrene, 1-methyl- | 11.56 | 770 | NJ D |
| 11 | 481-74-3 | 9,10-Anthracenedione, 1,8-dihydroxy-3-me | 11.74 | 1300 | NJ D |
| 12 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 11.90 | 920 | NJ D |
| 13 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.06 | 1900 | NJ D |
| 14 | 27208-37-3 | Cyclopenta[cd]pyrene | 12.13 | 860 | NJ D |
| 15 | 80252-14-8 | 6H-Benz[de]anthracen-6-one | 12.18 | 810 | NJ D |
| 16 | 480-39-7 | 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-d | 12.29 | 830 | NJ D |
| 17 | | Unknown-06 | 12.72 | 700 | J D |
| 18 | 1705-84-6 | Triphenylene, 2-methyl- | 12.97 | 650 | NJ D |
| 19 | 1090-13-7 | 5,12-Naphthacenedione | 13.04 | 790 | NJ D |
| 20 | 50861-05-7 | 9H-Cyclopenta[a]pyrene | 13.18 | 710 | NJ D |
| 21 | | Unknown-07 | 13.50 | 1100 | J D |
| 22 | | Unknown-08 | 13.63 | 1500 | J D |
| 23 | | Unknown-09 | 13.75 | 2200 | J D |
| 24 | 192-97-2 | Benzo[e]pyrene | 14.15 | 2000 | NJ D |
| 25 | 198-55-0 | Perylene | 14.65 | 3800 | NJ D |
| 26 | 1000294-14-8 | Benzoxazole, 2-[2-(4-piperidyl)pyrimid-5 | 15.85 | 1300 | NJ D |
| 27 | | Unknown-10 | 16.39 | 2000 | J D |
| 28 | | Unknown-11 | 17.42 | 1300 | J D |
| 29 | | Unknown-12 | 18.56 | 1400 | J D |
| 30 | 1058-61-3 | Stigmast-4-en-3-one | 18.68 | 6100 | NJ D |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-013MS
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 12110222
 % Solids: 51.5 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 640 | U |
| 100-52-7 | Benzaldehyde | 3200 | U |
| 108-95-2 | Phenol | 2200 | J D |
| 111-44-4 | Bis(2-Chloroethyl) ether | 3200 | U |
| 95-57-8 | 2-Chlorophenol | 2100 | D |
| 95-48-7 | 2-Methylphenol | 3200 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 3200 | U |
| 98-86-2 | Acetophenone | 3200 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 3200 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 2100 | D |
| 67-72-1 | Hexachloroethane | 1600 | U |
| 98-95-3 | Nitrobenzene | 1600 | U |
| 78-59-1 | Isophorone | 1600 | U |
| 88-75-5 | 2-Nitrophenol | 1600 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1600 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | U |
| 91-20-3 | Naphthalene | 460 | J D |
| 106-47-8 | 4-Chloroaniline | 3200 | U |
| 87-68-3 | Hexachlorobutadiene | 1600 | U |
| 105-60-2 | Caprolactam | 3200 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 2300 | D |
| 91-57-6 | 2-Methylnaphthalene | 450 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 3200 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1600 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | U |
| 92-52-4 | 1,1'-Biphenyl | 1600 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MS

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 51.5
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013MS
 Lab File ID: 12110222
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1600 | U |
| 88-74-4 | 2-Nitroaniline | 1600 | U |
| 131-11-3 | Dimethylphthalate | 1600 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | U |
| 208-96-8 | Acenaphthylene | 1100 | J D |
| 99-09-2 | 3-Nitroaniline | 3200 | U |
| 83-32-9 | Acenaphthene | 2100 | D |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | U |
| 100-02-7 | 4-Nitrophenol | 2300 | J D |
| 132-64-9 | Dibenzofuran | 380 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 2100 | D |
| 84-66-2 | Diethylphthalate | 1600 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1600 | U |
| 86-73-7 | Fluorene | 1600 | U |
| 100-01-6 | 4-Nitroaniline | 3200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3200 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1600 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1600 | U |
| 118-74-1 | Hexachlorobenzene | 1600 | U |
| 1912-24-9 | Atrazine | 3200 | U |
| 87-86-5 | Pentachlorophenol | 2600 | J D |
| 85-01-8 | Phenanthrene | 1400 | J D |
| 120-12-7 | Anthracene | 1100 | J D |
| 86-74-8 | Carbazole | 580 | J D |
| 84-74-2 | Di-n-butylphthalate | 1600 | U |
| 206-44-0 | Fluoranthene | 4600 | D |

ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

ESNP6MS

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) 9
 % Solids: 51.5
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013MS
 Lab File ID: 12110222
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|------------------------------|---------------|----|
| 129-00-0 | Pyrene | 7000 | D |
| 85-68-7 | Butylbenzylphthalate | 1600 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 3200 | U |
| 56-55-3 | Benzo (a) anthracene | 3400 | D |
| 218-01-9 | Chrysene | 5800 | D |
| 117-81-7 | bis (2-Ethylhexyl) phthalate | 1600 | U |
| 117-84-0 | Di-n-octylphthalate | 3200 | U |
| 205-99-2 | Benzo (b) fluoranthene | 10000 | D |
| 207-08-9 | Benzo (k) fluoranthene | 2900 | D |
| 50-32-8 | Benzo (a) pyrene | 5300 | D |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 5100 | D |
| 53-70-3 | Dibenzo (a,h) anthracene | 1600 | U |
| 191-24-2 | Benzo (g,h,i) perylene | 4500 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1600 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MSD

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 51.5
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013MD
 Lab File ID: 12110223
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1700 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 1700 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1700 | U |
| 208-96-8 | Acenaphthylene | 1000 | J D |
| 99-09-2 | 3-Nitroaniline | 3200 | U |
| 83-32-9 | Acenaphthene | 1800 | D |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | J D |
| 132-64-9 | Dibenzofuran | 350 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | D |
| 84-66-2 | Diethylphthalate | 1700 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1700 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1700 | U |
| 86-73-7 | Fluorene | 1700 | U |
| 100-01-6 | 4-Nitroaniline | 3200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3200 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1700 | U |
| 118-74-1 | Hexachlorobenzene | 1700 | U |
| 1912-24-9 | Atrazine | 3200 | U |
| 87-86-5 | Pentachlorophenol | 2200 | J D |
| 85-01-8 | Phenanthrene | 1300 | J D |
| 120-12-7 | Anthracene | 1100 | J D |
| 86-74-8 | Carbazole | 470 | J D |
| 84-74-2 | Di-n-butylphthalate | 1700 | U |
| 206-44-0 | Fluoranthene | 4000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6MSD

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) 9
 % Solids: 51.5
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-013MD
 Lab File ID: 12110223
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 7500 | D |
| 85-68-7 | Butylbenzylphthalate | 1700 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 3200 | U |
| 56-55-3 | Benzo(a)anthracene | 3100 | D |
| 218-01-9 | Chrysene | 6200 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1700 | U |
| 117-84-0 | Di-n-octylphthalate | 3200 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10000 | D |
| 207-08-9 | Benzo(k)fluoranthene | 3000 | D |
| 50-32-8 | Benzo(a)pyrene | 5800 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 5500 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1700 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 4500 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1700 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 72.6
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-014
 Lab File ID: 12110224
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 460 | U |
| 100-52-7 | Benzaldehyde | 2300 | U |
| 108-95-2 | Phenol | 2300 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 2300 | U |
| 95-57-8 | 2-Chlorophenol | 1200 | U |
| 95-48-7 | 2-Methylphenol | 2300 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 2300 | U |
| 98-86-2 | Acetophenone | 2300 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 2300 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1200 | U |
| 67-72-1 | Hexachloroethane | 1200 | U |
| 98-95-3 | Nitrobenzene | 1200 | U |
| 78-59-1 | Isophorone | 1200 | U |
| 88-75-5 | 2-Nitrophenol | 1200 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1200 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1200 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1200 | U |
| 91-20-3 | Naphthalene | 1000 | J D |
| 106-47-8 | 4-Chloroaniline | 2300 | U |
| 87-68-3 | Hexachlorobutadiene | 1200 | U |
| 105-60-2 | Caprolactam | 2300 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1200 | U |
| 91-57-6 | 2-Methylnaphthalene | 1000 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 2300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1200 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 92-52-4 | 1,1'-Biphenyl | 160 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) 9
 % Solids: 72.6
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-014
 Lab File ID: 12110224
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1200 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 1200 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | U |
| 208-96-8 | Acenaphthylene | 720 | J D |
| 99-09-2 | 3-Nitroaniline | 2300 | U |
| 83-32-9 | Acenaphthene | 290 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 2300 | U |
| 100-02-7 | 4-Nitrophenol | 2300 | U |
| 132-64-9 | Dibenzofuran | 480 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | U |
| 84-66-2 | Diethylphthalate | 1200 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1200 | U |
| 86-73-7 | Fluorene | 260 | J D |
| 100-01-6 | 4-Nitroaniline | 2300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2300 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1200 | U |
| 118-74-1 | Hexachlorobenzene | 1200 | U |
| 1912-24-9 | Atrazine | 2300 | U |
| 87-86-5 | Pentachlorophenol | 2300 | U |
| 85-01-8 | Phenanthrene | 2700 | D |
| 120-12-7 | Anthracene | 900 | J D |
| 86-74-8 | Carbazole | 420 | J D |
| 84-74-2 | Di-n-butylphthalate | 1200 | U |
| 206-44-0 | Fluoranthene | 5000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 72.6
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-014
 Lab File ID: 12110224
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|-----|
| 129-00-0 | Pyrene | 5000 | D |
| 85-68-7 | Butylbenzylphthalate | 1200 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U |
| 56-55-3 | Benzo(a)anthracene | 4000 | D |
| 218-01-9 | Chrysene | 5500 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 130 | J D |
| 117-84-0 | Di-n-octylphthalate | 2300 | U |
| 205-99-2 | Benzo(b)fluoranthene | 8700 | D |
| 207-08-9 | Benzo(k)fluoranthene | 2800 | D |
| 50-32-8 | Benzo(a)pyrene | 5900 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4400 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1200 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 4200 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 72.6
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-014
 Lab File ID: 12110224
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|------|
| 01 | | Unknown-01 | 4.07 | 5300 | J D |
| 02 | | Unknown-02 | 4.31 | 3700 | J D |
| 03 | | Unknown-03 | 9.01 | 3000 | J D |
| 04 | 949-41-7 | 1H-Cyclopropa[1]phenanthrene,1a,9b-dihyd | 10.12 | 1400 | NJ D |
| 05 | | | | | |
| 06 | 243-17-4 | 11H-Benzo[b]fluorene | 11.29 | 520 | NJ D |
| 07 | | | | | |
| 08 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 11.90 | 480 | NJ D |
| 09 | | Unknown-04 | 12.05 | 1200 | J D |
| 10 | | Unknown-05 | 12.62 | 610 | J D |
| 11 | | Unknown-06 | 13.50 | 740 | J D |
| 12 | | Unknown-07 | 13.63 | 1300 | J D |
| 13 | | Unknown-08 | 13.76 | 1100 | J D |
| 14 | 205-82-3 | Benzo[j]fluoranthene | 14.15 | 1800 | NJ D |
| 15 | | Unknown-09 | 14.28 | 1000 | J D |
| 16 | 192-97-2 | Benzo[e]pyrene | 14.43 | 7300 | NJ D |
| 17 | 198-55-0 | Perylene | 14.65 | 2300 | NJ D |
| 18 | 148-03-8 | .beta.-Tocopherol | 14.93 | 7600 | NJ D |
| 19 | | | | | |
| 20 | | Unknown-10 | 15.55 | 980 | J D |
| 21 | | Unknown-11 | 16.14 | 1100 | J D |
| 22 | | Unknown-12 | 16.39 | 920 | J D |
| 23 | 213-46-7 | Picene | 16.82 | 1600 | NJ D |
| 24 | | Unknown-13 | 16.90 | 1500 | J D |
| 25 | | Unknown-14 | 18.58 | 2300 | J D |
| 26 | | Unknown-15 | 18.68 | 1700 | J D |
| 27 | | Unknown-16 | 18.74 | 1600 | J D |
| 28 | 20475-86-9 | Urs-12-en-24-oic acid, 3-oxo-, methyl es | 19.31 | 5100 | NJ D |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | 3500 | J |

²EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-015
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 12110225
 % Solids: 70.2 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 470 | U |
| 100-52-7 | Benzaldehyde | 2300 | U |
| 108-95-2 | Phenol | 2300 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 2300 | U |
| 95-57-8 | 2-Chlorophenol | 1200 | U |
| 95-48-7 | 2-Methylphenol | 2300 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 2300 | U |
| 98-86-2 | Acetophenone | 2300 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 2300 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1200 | U |
| 67-72-1 | Hexachloroethane | 1200 | U |
| 98-95-3 | Nitrobenzene | 1200 | U |
| 78-59-1 | Isophorone | 1200 | U |
| 88-75-5 | 2-Nitrophenol | 1200 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1200 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1200 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1200 | U |
| 91-20-3 | Naphthalene | 530 | J D |
| 106-47-8 | 4-Chloroaniline | 2300 | U |
| 87-68-3 | Hexachlorobutadiene | 1200 | U |
| 105-60-2 | Caprolactam | 2300 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1200 | U |
| 91-57-6 | 2-Methylnaphthalene | 720 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 2300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1200 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 92-52-4 | 1,1'-Biphenyl | 1200 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 70.2
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 12110225
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1200 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 1200 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | U |
| 208-96-8 | Acenaphthylene | 230 | J D |
| 99-09-2 | 3-Nitroaniline | 2300 | U |
| 83-32-9 | Acenaphthene | 280 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 2300 | U |
| 100-02-7 | 4-Nitrophenol | 2300 | U |
| 132-64-9 | Dibenzofuran | 410 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | U |
| 84-66-2 | Diethylphthalate | 1200 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1200 | U |
| 86-73-7 | Fluorene | 340 | J D |
| 100-01-6 | 4-Nitroaniline | 2300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2300 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1200 | U |
| 118-74-1 | Hexachlorobenzene | 1200 | U |
| 1912-24-9 | Atrazine | 2300 | U |
| 87-86-5 | Pentachlorophenol | 2300 | U |
| 85-01-8 | Phenanthrene | 4500 | D |
| 120-12-7 | Anthracene | 970 | J D |
| 86-74-8 | Carbazole | 410 | J D |
| 84-74-2 | Di-n-butylphthalate | 1200 | U |
| 206-44-0 | Fluoranthene | 4800 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-015
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 12110225
 % Solids: 70.2 Date Received: 10/24/2018
 GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|-----|
| 129-00-0 | Pyrene | 4300 | D |
| 85-68-7 | Butylbenzylphthalate | 1200 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U |
| 56-55-3 | Benzo(a)anthracene | 2700 | D |
| 218-01-9 | Chrysene | 3300 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 140 | J D |
| 117-84-0 | Di-n-octylphthalate | 2300 | U |
| 205-99-2 | Benzo(b)fluoranthene | 3700 | D |
| 207-08-9 | Benzo(k)fluoranthene | 1200 | D |
| 50-32-8 | Benzo(a)pyrene | 2700 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1900 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1200 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 1900 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 70.2
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-015
 Lab File ID: 12110225
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|------------------|
| 01 | | Unknown-01 | 4.06 | 2800 | J D |
| 02 | | Unknown-02 | 4.31 | 1800 | J D |
| 03 | | Unknown-03 | 9.01 | 2500 | J D |
| 04 | | Unknown-04 | 9.87 | 4300 | J D |
| 05 | | Unknown-05 | 9.94 | 1300 | J D |
| 06 | 613-12-7 | Anthracene, 2-methyl- | 10.01 | 940 | NJ D |
| 07 | 610-48-0 | Anthracene, 1-methyl- | 10.04 | 1400 | NJ D |
| 08 | 14905-56-7 | Tetradecane, 2,6,10-trimethyl- <i>Alkane</i> | 10.09 | 850 | NJ DU |
| 09 | 2531-84-2 | Phenanthrene, 2-methyl- | 10.12 | 1600 | NJ D |
| 10 | | Unknown-06 | 10.44 | 1300 | J D |
| 11 | 629-92-5 | Nonadecane <i>Alkane</i> | 11.20 | 520 | NJ DU |
| 12 | 243-17-4 | 11H-Benzo[b]fluorene | 11.28 | 650 | NJ D |
| 13 | | Unknown-07 | 11.36 | 680 | J D |
| 14 | 2381-21-7 | Pyrene, 1-methyl- | 11.41 | 610 | NJ D |
| 15 | | Unknown-08 | 11.56 | 500 | J D |
| 16 | 481-74-3 | 9,10-Anthracenedione, 1,8-dihydroxy-3-me | 11.74 | 1300 | NJ D |
| 17 | | Unknown-09 | 12.05 | 1400 | J D |
| 18 | | Unknown-10 | 12.18 | 520 | J D |
| 19 | | | | | |
| 20 | | Unknown-11 | 13.09 | 590 | J D |
| 21 | | Unknown-12 | 13.18 | 580 | J D |
| 22 | | Unknown-13 | 13.63 | 810 | J D |
| 23 | 198-55-0 | Perylene | 14.15 | 650 | NJ D |
| 24 | 192-97-2 | Benzo[e]pyrene | 14.43 | 2400 | NJ D |
| 25 | | | | | |
| 26 | 214-17-5 | Benzo[b]chrysene | 16.82 | 910 | NJ D |
| 27 | | Unknown-14 | 16.89 | 1000 | J D |
| 28 | | Unknown-15 | 18.66 | 1100 | J D |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | 1600 | J |

*act
1-30-19*

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 77.6
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 12110116
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|---|
| 123-91-1 | 1,4-Dioxane | 86 | U |
| 100-52-7 | Benzaldehyde | 420 | U |
| 108-95-2 | Phenol | 420 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 420 | U |
| 95-57-8 | 2-Chlorophenol | 220 | U |
| 95-48-7 | 2-Methylphenol | 420 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 420 | U |
| 98-86-2 | Acetophenone | 420 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 420 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 220 | U |
| 67-72-1 | Hexachloroethane | 220 | U |
| 98-95-3 | Nitrobenzene | 220 | U |
| 78-59-1 | Isophorone | 220 | U |
| 88-75-5 | 2-Nitrophenol | 220 | U |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 220 | U |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U |
| 91-20-3 | Naphthalene | 220 | U |
| 106-47-8 | 4-Chloroaniline | 420 | U |
| 87-68-3 | Hexachlorobutadiene | 220 | U |
| 105-60-2 | Caprolactam | 420 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U |
| 91-57-6 | 2-Methylnaphthalene | 220 | U |
| 77-47-4 | Hexachlorocyclo-pentadiene | 420 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U |
| 92-52-4 | 1,1'-Biphenyl | 220 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 77.6
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 12110116
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|---|
| 91-58-7 | 2-Chloronaphthalene | 220 | U |
| 88-74-4 | 2-Nitroaniline | 220 | U |
| 131-11-3 | Dimethylphthalate | 220 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U |
| 208-96-8 | Acenaphthylene | 220 | U |
| 99-09-2 | 3-Nitroaniline | 420 | U |
| 83-32-9 | Acenaphthene | 220 | U |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U |
| 100-02-7 | 4-Nitrophenol | 420 | U |
| 132-64-9 | Dibenzofuran | 220 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U |
| 84-66-2 | Diethylphthalate | 220 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 220 | U |
| 86-73-7 | Fluorene | 220 | U |
| 100-01-6 | 4-Nitroaniline | 420 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 420 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 220 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 220 | U |
| 118-74-1 | Hexachlorobenzene | 220 | U |
| 1912-24-9 | Atrazine | 420 | U |
| 87-86-5 | Pentachlorophenol | 420 | U |
| 85-01-8 | Phenanthrene | 220 | U |
| 120-12-7 | Anthracene | 220 | U |
| 86-74-8 | Carbazole | 420 | U |
| 84-74-2 | Di-n-butylphthalate | 220 | U |
| 206-44-0 | Fluoranthene | 82 | J |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 77.6
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 12110116
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|-------------------|-----------------|
| 129-00-0 | Pyrene | 74 | J |
| 85-68-7 | Butylbenzylphthalate | 220 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 420 | U |
| 56-55-3 | Benzo(a)anthracene | 36 | J |
| 218-01-9 | Chrysene | 59 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 220 | U |
| 117-84-0 | Di-n-octylphthalate | 420 | U |
| 205-99-2 | Benzo(b)fluoranthene | 83 | J |
| 207-08-9 | Benzo(k)fluoranthene | 27 | J |
| 50-32-8 | Benzo(a)pyrene | 56 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 41 | J |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 220 53 | JB U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U |

act
 12-10-18

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 77.6
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-016
 Lab File ID: 12110116
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---|-------|------------|----|
| 01 | Unknown-01 | 4.07 | 870 | J |
| 02 | Unknown-02 | 4.31 | 730 | J |
| 03 | Unknown-03 | 4.47 | 270 | J |
| 04 | Unknown-04 | 9.88 | 2100 | J |
| 05 | 373-49-9 Palmitoleic acid | 9.92 | 250 | NJ |
| 06 | 57-10-3 n-Hexadecanoic acid | 9.94 | 370 | NJ |
| 07 | Unknown-05 | 10.60 | 99 | J |
| 08 | Unknown-06 | 11.51 | 170 | J |
| 09 | Unknown-07 | 11.56 | 1100 | J |
| 10 | 481-74-3 9,10-Anthracenedione, 1,8-dihydroxy-3-me | 11.74 | 750 | NJ |
| 11 | Unknown-08 | 12.04 | 96 | J |
| 12 | 518-82-1 9,10-Anthracenedione, 1,3,8-trihydroxy-6 | 12.56 | 140 | NJ |
| 13 | Unknown-09 | 12.70 | 180 | J |
| 14 | Unknown-10 | 12.99 | 2200 | J |
| 15 | | | | |
| 16 | Unknown-11 | 13.63 | 110 | J |
| 17 | Unknown-12 | 14.84 | 94 | J |
| 18 | | | | |
| 19 | Unknown-13 | 15.31 | 100 | J |
| 20 | Unknown-14 | 16.78 | 1200 | J |
| 21 | Unknown-15 | 17.01 | 800 | J |
| 22 | 83-46-5 .beta.-Sitosterol | 17.36 | 100 | NJ |
| 23 | 1615-91-4 A'-Neogammacer-22(29)-ene | 17.58 | 510 | NJ |
| 24 | Unknown-16 | 17.83 | 150 | J |
| 25 | Unknown-17 | 18.53 | 540 | J |
| 26 | 1058-61-3 Stigmast-4-en-3-one | 18.66 | 800 | NJ |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| | E966796 ² Total Alkanes | N/A | 480 | J |

²EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQO

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-017
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 12110226
 % Solids: 67.7 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 490 | U |
| 100-52-7 | Benzaldehyde | 2400 | U |
| 108-95-2 | Phenol | 2400 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 2400 | U |
| 95-57-8 | 2-Chlorophenol | 1200 | U |
| 95-48-7 | 2-Methylphenol | 2400 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 2400 | U |
| 98-86-2 | Acetophenone | 2400 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 2400 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1200 | U |
| 67-72-1 | Hexachloroethane | 1200 | U |
| 98-95-3 | Nitrobenzene | 1200 | U |
| 78-59-1 | Isophorone | 1200 | U |
| 88-75-5 | 2-Nitrophenol | 1200 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1200 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1200 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1200 | U |
| 91-20-3 | Naphthalene | 4700 | D |
| 106-47-8 | 4-Chloroaniline | 2400 | U |
| 87-68-3 | Hexachlorobutadiene | 1200 | U |
| 105-60-2 | Caprolactam | 2400 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1200 | U |
| 91-57-6 | 2-Methylnaphthalene | 2400 | D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 2400 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1200 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 92-52-4 | 1,1'-Biphenyl | 590 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESN00

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 67.7
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-017
 Lab File ID: 12110226
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1200 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 1200 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | U |
| 208-96-8 | Acenaphthylene | 1100 | J D |
| 99-09-2 | 3-Nitroaniline | 2400 | U |
| 83-32-9 | Acenaphthene | 550 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 2400 | U |
| 100-02-7 | 4-Nitrophenol | 2400 | U |
| 132-64-9 | Dibenzofuran | 1400 | D |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | U |
| 84-66-2 | Diethylphthalate | 1200 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1200 | U |
| 86-73-7 | Fluorene | 610 | J D |
| 100-01-6 | 4-Nitroaniline | 2400 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2400 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 340 | J D |
| 118-74-1 | Hexachlorobenzene | 1200 | U |
| 1912-24-9 | Atrazine | 2400 | U |
| 87-86-5 | Pentachlorophenol | 2400 | U |
| 85-01-8 | Phenanthrene | 7700 | D |
| 120-12-7 | Anthracene | 2000 | D |
| 86-74-8 | Carbazole | 720 | J D |
| 84-74-2 | Di-n-butylphthalate | 1200 | U |
| 206-44-0 | Fluoranthene | 11000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-017
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 12110226
 % Solids: 67.7 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|-----|
| 129-00-0 | Pyrene | 8700 | D |
| 85-68-7 | Butylbenzylphthalate | 1200 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2400 | U |
| 56-55-3 | Benzo(a)anthracene | 6800 | D |
| 218-01-9 | Chrysene | 7300 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 440 | J D |
| 117-84-0 | Di-n-octylphthalate | 2400 | U |
| 205-99-2 | Benzo(b)fluoranthene | 9800 | D |
| 207-08-9 | Benzo(k)fluoranthene | 3400 | D |
| 50-32-8 | Benzo(a)pyrene | 7900 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 5000 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1200 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 4900 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ0

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 67.7
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-017
 Lab File ID: 12110226
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|----------------------------|-------|------------|------|
| 01 | | | | | |
| 02 | | | | | |
| 03 | 581-42-0 | Naphthalene, 2,6-dimethyl- | 7.96 | 1800 | NJ D |
| 04 | 581-40-8 | Naphthalene, 2,3-dimethyl- | 8.04 | 1700 | NJ D |
| 05 | | Unknown-01 | 8.60 | 2100 | J D |
| 06 | | | | | |
| 07 | | | | | |
| 08 | 832-69-9 | Phenanthrene, 1-methyl- | 10.04 | 2200 | NJ D |
| 09 | | Unknown-02 | 10.14 | 2000 | J D |
| 10 | | Unknown-03 | 10.44 | 2600 | J D |
| 11 | | Unknown-04 | 12.05 | 1200 | J D |
| 12 | | Unknown-05 | 12.50 | 550 | J D |
| 13 | | Unknown-06 | 12.63 | 860 | J D |
| 14 | 1705-84-6 | Triphenylene, 2-methyl- | 12.98 | 1300 | NJ D |
| 15 | | Unknown-07 | 13.22 | 540 | J D |
| 16 | | Unknown-08 | 13.50 | 660 | J D |
| 17 | | Unknown-09 | 13.59 | 2000 | J D |
| 18 | | Unknown-10 | 13.77 | 2400 | J D |
| 19 | | Unknown-11 | 13.97 | 1700 | J D |
| 20 | | Unknown-12 | 14.16 | 3600 | J D |
| 21 | | Unknown-13 | 14.29 | 2100 | J D |
| 22 | 205-82-3 | Benzo[j]fluoranthene | 14.44 | 6000 | NJ D |
| 23 | 192-97-2 | Benzo[e]pyrene | 14.66 | 2700 | NJ D |
| 24 | | Unknown-14 | 15.04 | 1600 | J D |
| 25 | | Unknown-15 | 15.28 | 1400 | J D |
| 26 | | Unknown-16 | 15.44 | 1400 | J D |
| 27 | 215-58-7 | Benzo[b]triphenylene | 16.85 | 1500 | NJ D |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | 11000 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-018
 Sample wt/vol: 30.6 (g/mL) g Lab File ID: 12110227
 % Solids: 81.1 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 400 | U |
| 100-52-7 | Benzaldehyde | 2000 | U |
| 108-95-2 | Phenol | 2000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 2000 | U |
| 95-57-8 | 2-Chlorophenol | 1000 | U |
| 95-48-7 | 2-Methylphenol | 2000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 2000 | U |
| 98-86-2 | Acetophenone | 2000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 2000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 1000 | U |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 91-20-3 | Naphthalene | 1200 | D |
| 106-47-8 | 4-Chloroaniline | 2000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 105-60-2 | Caprolactam | 2000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 840 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 2000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1000 | U |
| 92-52-4 | 1,1'-Biphenyl | 170 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 12110227
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 1000 | U |
| 131-11-3 | Dimethylphthalate | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |
| 208-96-8 | Acenaphthylene | 1100 | D |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 520 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 1300 | D |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 1000 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1000 | U |
| 86-73-7 | Fluorene | 920 | J D |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 1912-24-9 | Atrazine | 2000 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 17000 | E D |
| 120-12-7 | Anthracene | 3300 | D |
| 86-74-8 | Carbazole | 1700 | J D |
| 84-74-2 | Di-n-butylphthalate | 1000 | U |
| 206-44-0 | Fluoranthene | 22000 | E D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQ1 Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-018
 Sample wt/vol: 30.6 (g/mL) g Lab File ID: 12110227
 % Solids: 81.1 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 16000 | D |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U |
| 56-55-3 | Benzo(a)anthracene | 9500 | D |
| 218-01-9 | Chrysene | 9800 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1000 | U |
| 117-84-0 | Di-n-octylphthalate | 2000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 11000 | D |
| 207-08-9 | Benzo(k)fluoranthene | 4100 | D |
| 50-32-8 | Benzo(a)pyrene | 7900 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 4500 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 3600 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1000 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 12110227
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 5.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------------------------|-------|------------|------|
| 01 | | Unknown-01 | 9.01 | 2500 | J D |
| 02 | | Unknown-02 | 9.35 | 1600 | J D |
| 03 | 486-25-9 | 9H-Fluoren-9-one | 9.43 | 3100 | NJ D |
| 04 | 2531-84-2 | Phenanthrene, 2-methyl- | 10.01 | 2200 | NJ D |
| 05 | 610-48-0 | Anthracene, 1-methyl- | 10.04 | 2600 | NJ D |
| 06 | | Unknown-03 | 10.13 | 3900 | J D |
| 07 | 5737-13-3 | Cyclopenta(def)phenanthrenone | 10.62 | 1800 | NJ D |
| 08 | 33543-31-6 | Fluoranthene, 2-methyl- | 11.28 | 540 | NJ D |
| 09 | | Unknown-04 | 11.41 | 420 | J D |
| 10 | 80252-14-8 | 6H-Benz[de]anthracen-6-one | 11.90 | 460 | NJ D |
| 11 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.06 | 700 | NJ D |
| 12 | | Unknown-05 | 12.14 | 420 | J D |
| 13 | 82-05-3 | 7H-Benz[de]anthracen-7-one | 12.18 | 450 | NJ D |
| 14 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 12.62 | 670 | NJ D |
| 15 | | Unknown-06 | 12.73 | 420 | J D |
| 16 | 2381-31-9 | Benz[a]anthracene, 8-methyl- | 12.97 | 870 | NJ D |
| 17 | | Unknown-07 | 13.18 | 550 | J D |
| 18 | | Unknown-08 | 13.76 | 1100 | J D |
| 19 | 192-97-2 | Benzo[e]pyrene | 14.16 | 2100 | NJ D |
| 20 | 198-55-0 | Perylene | 14.44 | 6300 | NJ D |
| 21 | | Unknown-09 | 14.65 | 2900 | J D |
| 22 | 213-46-7 | Picene | 16.83 | 1300 | NJ D |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

DATA SAMPLE NO.

ESNQ1DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 12110130
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 1600 | U |
| 100-52-7 | Benzaldehyde | 8000 | U |
| 108-95-2 | Phenol | 8000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 8000 | U |
| 95-57-8 | 2-Chlorophenol | 4100 | U |
| 95-48-7 | 2-Methylphenol | 8000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 8000 | U |
| 98-86-2 | Acetophenone | 8000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 8000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 4100 | U |
| 67-72-1 | Hexachloroethane | 4100 | U |
| 98-95-3 | Nitrobenzene | 4100 | U |
| 78-59-1 | Isophorone | 4100 | U |
| 88-75-5 | 2-Nitrophenol | 4100 | U |
| 105-67-9 | 2,4-Dimethylphenol | 4100 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4100 | U |
| 120-83-2 | 2,4-Dichlorophenol | 4100 | U |
| 91-20-3 | Naphthalene | 920 | J D |
| 106-47-8 | 4-Chloroaniline | 8000 | U |
| 87-68-3 | Hexachlorobutadiene | 4100 | U |
| 105-60-2 | Caprolactam | 8000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 4100 | U |
| 91-57-6 | 2-Methylnaphthalene | 670 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 8000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 4100 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 4100 | U |
| 92-52-4 | 1,1'-Biphenyl | 4100 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 12110130
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 4100 | U |
| 88-74-4 | 2-Nitroaniline | 4100 | U |
| 131-11-3 | Dimethylphthalate | 4100 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 4100 | U |
| 208-96-8 | Acenaphthylene | 780 | J D |
| 99-09-2 | 3-Nitroaniline | 8000 | U |
| 83-32-9 | Acenaphthene | 4100 | U |
| 51-28-5 | 2,4-Dinitrophenol | 8000 | U |
| 100-02-7 | 4-Nitrophenol | 8000 | U |
| 132-64-9 | Dibenzofuran | 930 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 4100 | U |
| 84-66-2 | Diethylphthalate | 4100 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4100 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 4100 | U |
| 86-73-7 | Fluorene | 680 | J D |
| 100-01-6 | 4-Nitroaniline | 8000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 4100 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 4100 | U |
| 118-74-1 | Hexachlorobenzene | 4100 | U |
| 1912-24-9 | Atrazine | 8000 | U |
| 87-86-5 | Pentachlorophenol | 8000 | U |
| 85-01-8 | Phenanthrene | 13000 | D |
| 120-12-7 | Anthracene | 2400 | J D |
| 86-74-8 | Carbazole | 1400 | J D |
| 84-74-2 | Di-n-butylphthalate | 4100 | U |
| 206-44-0 | Fluoranthene | 15000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

LAB SAMPLE NO.
 ESNQ1DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-018
 Sample wt/vol: 30.6 (g/mL) g Lab File ID: 12110130
 % Solids: 81.1 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/01/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 20.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|-----------------------|
| 129-00-0 | Pyrene | 13000 | D |
| 85-68-7 | Butylbenzylphthalate | 4100 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 8000 | U |
| 56-55-3 | Benzo(a)anthracene | 7500 | D |
| 218-01-9 | Chrysene | 7300 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 4100 | U |
| 117-84-0 | Di-n-octylphthalate | 8000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 8400 | D |
| 207-08-9 | Benzo(k)fluoranthene | 3200 | J D |
| 50-32-8 | Benzo(a)pyrene | 6200 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3800 | J D |
| 53-70-3 | Dibenzo(a,h)anthracene | 4100 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 4100 | 3300 J DBU |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4100 | U |

ack
 12-10-18

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ1DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-018
 Lab File ID: 12110130
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------------------------|-------|------------|------|
| 01 | | | | | |
| 02 | 486-25-9 | 9H-Fluoren-9-one | 9.42 | 1800 | NJ D |
| 03 | | Unknown-01 | 10.01 | 1600 | J D |
| 04 | 610-48-0 | Anthracene, 1-methyl- | 10.04 | 2100 | NJ D |
| 05 | | Unknown-02 | 10.13 | 3200 | J D |
| 06 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.05 | 2600 | NJ D |
| 07 | 198-55-0 | Perylene | 14.42 | 4800 | NJ D |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | 2200 | J |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 82.9
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 12110131
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 1600 | U |
| 100-52-7 | Benzaldehyde | 8000 | U |
| 108-95-2 | Phenol | 8000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 8000 | U |
| 95-57-8 | 2-Chlorophenol | 4100 | U |
| 95-48-7 | 2-Methylphenol | 8000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 8000 | U |
| 98-86-2 | Acetophenone | 8000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 8000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 4100 | U |
| 67-72-1 | Hexachloroethane | 4100 | U |
| 98-95-3 | Nitrobenzene | 4100 | U |
| 78-59-1 | Isophorone | 4100 | U |
| 88-75-5 | 2-Nitrophenol | 4100 | U |
| 105-67-9 | 2,4-Dimethylphenol | 4100 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 4100 | U |
| 120-83-2 | 2,4-Dichlorophenol | 4100 | U |
| 91-20-3 | Naphthalene | 12000 | D |
| 106-47-8 | 4-Chloroaniline | 8000 | U |
| 87-68-3 | Hexachlorobutadiene | 4100 | U |
| 105-60-2 | Caprolactam | 8000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 4100 | U |
| 91-57-6 | 2-Methylnaphthalene | 2700 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 8000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 4100 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 4100 | U |
| 92-52-4 | 1,1'-Biphenyl | 700 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) 9
 % Solids: 82.9
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 12110131
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 4100 | U |
| 88-74-4 | 2-Nitroaniline | 4100 | U |
| 131-11-3 | Dimethylphthalate | 4100 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 4100 | U |
| 208-96-8 | Acenaphthylene | 9800 | D |
| 99-09-2 | 3-Nitroaniline | 8000 | U |
| 83-32-9 | Acenaphthene | 2700 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 8000 | U |
| 100-02-7 | 4-Nitrophenol | 8000 | U |
| 132-64-9 | Dibenzofuran | 3200 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 4100 | U |
| 84-66-2 | Diethylphthalate | 4100 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 4100 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 4100 | U |
| 86-73-7 | Fluorene | 3000 | J D |
| 100-01-6 | 4-Nitroaniline | 8000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 8000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 4100 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 4100 | U |
| 118-74-1 | Hexachlorobenzene | 4100 | U |
| 1912-24-9 | Atrazine | 8000 | U |
| 87-86-5 | Pentachlorophenol | 8000 | U |
| 85-01-8 | Phenanthrene | 40000 | D |
| 120-12-7 | Anthracene | 13000 | D |
| 86-74-8 | Carbazole | 4300 | J D |
| 84-74-2 | Di-n-butylphthalate | 4100 | U |
| 206-44-0 | Fluoranthene | 96000 | E D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 12110131
 % Solids: 82.9 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/01/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 20.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|-----|
| 129-00-0 | Pyrene | 74000 | E D |
| 85-68-7 | Butylbenzylphthalate | 4100 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 8000 | U |
| 56-55-3 | Benzo(a)anthracene | 61000 | D |
| 218-01-9 | Chrysene | 61000 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 460 | J D |
| 117-84-0 | Di-n-octylphthalate | 8000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 85000 | E D |
| 207-08-9 | Benzo(k)fluoranthene | 36000 | D |
| 50-32-8 | Benzo(a)pyrene | 77000 | E D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 55000 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 4100 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 53000 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 4100 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 82.9
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 12110131
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|--|-------|------------|------|
| 01 | | Unknown-01 | 10.13 | 16000 | J D |
| 02 | 238-84-6 | 11H-Benzo[a]fluorene | 11.28 | 2900 | NJ D |
| 03 | | Unknown-02 | 11.36 | 2400 | J D |
| 04 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.06 | 2000 | NJ D |
| 05 | | Unknown-03 | 12.14 | 1700 | J D |
| 06 | | Unknown-04 | 12.57 | 1600 | J D |
| 07 | | Unknown-05 | 12.73 | 1800 | J D |
| 08 | 1705-84-6 | Triphenylene, 2-methyl- | 12.98 | 2300 | NJ D |
| 09 | 477-75-8 | 9,10[1',2']-Benzenoanthracene, 9,10-dihy | 13.76 | 7200 | NJ D |
| 10 | 192-97-2 | Benzo[e]pyrene | 14.16 | 15000 | NJ D |
| 11 | | Unknown-06 | 14.28 | 7500 | J D |
| 12 | 602-55-1 | Anthracene, 9-phenyl- | 14.36 | 6800 | NJ D |
| 13 | 198-55-0 | Perylene | 14.66 | 27000 | NJ D |
| 14 | 220-97-3 | 11H-Indeno[2,1-a]phenanthrene | 14.85 | 6200 | NJ D |
| 15 | 239-85-0 | 13H-Dibenzo[a,h]fluorene | 14.91 | 8600 | NJ D |
| 16 | 215-58-7 | Benzo[b]triphenylene | 16.35 | 7100 | NJ D |
| 17 | | Unknown-07 | 16.40 | 9100 | J D |
| 18 | 214-17-5 | Benzo[b]chrysene | 16.84 | 11000 | NJ D |
| 19 | 213-46-7 | Picene | 16.92 | 7600 | NJ D |
| 20 | | Unknown-08 | 17.41 | 7200 | J D |
| 21 | 191-26-4 | Dibenzo[def,mno]chrysene | 17.54 | 15000 | NJ D |
| 22 | 5385-75-1 | Dibenz(a,e)aceanthrylene | 20.18 | 22000 | NJ D |
| 23 | 189-64-0 | 3,4:8,9-Dibenzopyrene | 20.43 | 16000 | NJ D |
| 24 | 192-65-4 | 1,2:4,5-Dibenzopyrene | 20.54 | 11000 | NJ D |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 12110213
 % Solids: 82.9 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 50.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 4000 | U |
| 100-52-7 | Benzaldehyde | 20000 | U |
| 108-95-2 | Phenol | 20000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 20000 | U |
| 95-57-8 | 2-Chlorophenol | 10000 | U |
| 95-48-7 | 2-Methylphenol | 20000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 20000 | U |
| 98-86-2 | Acetophenone | 20000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 20000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 10000 | U |
| 67-72-1 | Hexachloroethane | 10000 | U |
| 98-95-3 | Nitrobenzene | 10000 | U |
| 78-59-1 | Isophorone | 10000 | U |
| 88-75-5 | 2-Nitrophenol | 10000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10000 | U |
| 91-20-3 | Naphthalene | 14000 | D |
| 106-47-8 | 4-Chloroaniline | 20000 | U |
| 87-68-3 | Hexachlorobutadiene | 10000 | U |
| 105-60-2 | Caprolactam | 20000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10000 | U |
| 91-57-6 | 2-Methylnaphthalene | 3200 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 20000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10000 | U |
| 92-52-4 | 1,1'-Biphenyl | 10000 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 12110213
 % Solids: 82.9 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 50.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 10000 | U |
| 88-74-4 | 2-Nitroaniline | 10000 | U |
| 131-11-3 | Dimethylphthalate | 10000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10000 | U |
| 208-96-8 | Acenaphthylene | 12000 | D |
| 99-09-2 | 3-Nitroaniline | 20000 | U |
| 83-32-9 | Acenaphthene | 3700 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 20000 | U |
| 100-02-7 | 4-Nitrophenol | 20000 | U |
| 132-64-9 | Dibenzofuran | 4000 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 10000 | U |
| 84-66-2 | Diethylphthalate | 10000 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 10000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 10000 | U |
| 86-73-7 | Fluorene | 3900 | J D |
| 100-01-6 | 4-Nitroaniline | 20000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 20000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10000 | U |
| 118-74-1 | Hexachlorobenzene | 10000 | U |
| 1912-24-9 | Atrazine | 20000 | U |
| 87-86-5 | Pentachlorophenol | 20000 | U |
| 85-01-8 | Phenanthrene | 53000 | D |
| 120-12-7 | Anthracene | 17000 | D |
| 86-74-8 | Carbazole | 5500 | J D |
| 84-74-2 | Di-n-butylphthalate | 10000 | U |
| 206-44-0 | Fluoranthene | 120000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 12110213
 % Solids: 82.9 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 500 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 50.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 95000 | D |
| 85-68-7 | Butylbenzylphthalate | 10000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20000 | U |
| 56-55-3 | Benzo(a)anthracene | 80000 | D |
| 218-01-9 | Chrysene | 79000 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10000 | U |
| 117-84-0 | Di-n-octylphthalate | 20000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 120000 | D |
| 207-08-9 | Benzo(k)fluoranthene | 44000 | D |
| 50-32-8 | Benzo(a)pyrene | 96000 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 72000 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 10000 | U |
| 191-24-2 | Benzo(a,h,i)perylene | 72000 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 10000 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ2DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 82.9
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-019
 Lab File ID: 12110213
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 50.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------------------------|-------|------------|------|
| 01 | 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 10.13 | 17000 | NJ D |
| 02 | 2381-21-7 | Pyrene, 1-methyl- | 11.15 | 4200 | NJ D |
| 03 | 238-84-6 | 11H-Benzo[a]fluorene | 11.28 | 6700 | NJ D |
| 04 | 243-17-4 | 11H-Benzo[b]fluorene | 11.35 | 5900 | NJ D |
| 05 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.05 | 5200 | NJ D |
| 06 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 12.18 | 5000 | NJ D |
| 07 | 239-01-0 | 11H-Benzo[a]carbazole | 12.72 | 4300 | NJ D |
| 08 | 1705-84-6 | Triphenylene, 2-methyl- | 12.97 | 8000 | NJ D |
| 09 | | Unknown-01 | 13.75 | 11000 | J D |
| 10 | 192-97-2 | Benzo[e]pyrene | 14.15 | 23000 | NJ D |
| 11 | 207-93-2 | Dinaphtho[1,2-b:1',2'-d]furan | 14.27 | 12000 | NJ D |
| 12 | | Unknown-02 | 14.36 | 11000 | J D |
| 13 | 205-82-3 | Benzo[j]fluoranthene | 14.64 | 37000 | NJ D |
| 14 | | Unknown-03 | 16.32 | 14000 | J D |
| 15 | | Unknown-04 | 16.38 | 13000 | J D |
| 16 | 215-58-7 | Benzo[b]triphenylene | 16.81 | 19000 | NJ D |
| 17 | | Unknown-05 | 16.90 | 16000 | J D |
| 18 | 191-26-4 | Dibenzo[def,mno]chrysene | 17.50 | 24000 | NJ D |
| 19 | 189-55-9 | Dibenzo(a,i)pyrene | 20.14 | 16000 | NJ D |
| 20 | 189-64-0 | 3,4:8,9-Dibenzopyrene | 20.39 | 25000 | NJ D |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110132
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 6500 | U |
| 100-52-7 | Benzaldehyde | 32000 | U |
| 108-95-2 | Phenol | 32000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 32000 | U |
| 95-57-8 | 2-Chlorophenol | 16000 | U |
| 95-48-7 | 2-Methylphenol | 32000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 32000 | U |
| 98-86-2 | Acetophenone | 32000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 32000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 16000 | U |
| 67-72-1 | Hexachloroethane | 16000 | U |
| 98-95-3 | Nitrobenzene | 16000 | U |
| 78-59-1 | Isophorone | 16000 | U |
| 88-75-5 | 2-Nitrophenol | 16000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 16000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 16000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 16000 | U |
| 91-20-3 | Naphthalene | 79000 | D |
| 106-47-8 | 4-Chloroaniline | 32000 | U |
| 87-68-3 | Hexachlorobutadiene | 16000 | U |
| 105-60-2 | Caprolactam | 32000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 16000 | U |
| 91-57-6 | 2-Methylnaphthalene | 14000 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 32000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 16000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 16000 | U |
| 92-52-4 | 1,1'-Biphenyl | 4700 | J D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-020
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: 12110132
 % Solids: 81.4 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/01/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 2000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 20.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 16000 | U |
| 88-74-4 | 2-Nitroaniline | 16000 | U |
| 131-11-3 | Dimethylphthalate | 16000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 16000 | U |
| 208-96-8 | Acenaphthylene | 130000 | D |
| 99-09-2 | 3-Nitroaniline | 32000 | U |
| 83-32-9 | Acenaphthene | 4500 | J D |
| 51-28-5 | 2,4-Dinitrophenol | 32000 | U |
| 100-02-7 | 4-Nitrophenol | 32000 | U |
| 132-64-9 | Dibenzofuran | 27000 | D |
| 121-14-2 | 2,4-Dinitrotoluene | 16000 | U |
| 84-66-2 | Diethylphthalate | 16000 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 16000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 16000 | U |
| 86-73-7 | Fluorene | 24000 | D |
| 100-01-6 | 4-Nitroaniline | 32000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 32000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 16000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 16000 | U |
| 118-74-1 | Hexachlorobenzene | 16000 | U |
| 1912-24-9 | Atrazine | 32000 | U |
| 87-86-5 | Pentachlorophenol | 32000 | U |
| 85-01-8 | Phenanthrene | 340000 | E D |
| 120-12-7 | Anthracene | 110000 | D |
| 86-74-8 | Carbazole | 32000 | D |
| 84-74-2 | Di-n-butylphthalate | 16000 | U |
| 206-44-0 | Fluoranthene | 1000000 | E D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110132
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|------|
| 129-00-0 | Pyrene | 660000 | E D |
| 85-68-7 | Butylbenzylphthalate | 16000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 32000 | U |
| 56-55-3 | Benzo(a)anthracene | 430000 | E D |
| 218-01-9 | Chrysene | 430000 | E D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 2200 | J D |
| 117-84-0 | Di-n-octylphthalate | 32000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 590000 | E D |
| 207-08-9 | Benzo(k)fluoranthene | 240000 | D |
| 50-32-8 | Benzo(a)pyrene | 430000 | E D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 300000 | E D |
| 53-70-3 | Dibenzo(a,h)anthracene | 16000 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 290000 | E DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 16000 | U |

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110132
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 20.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|---------------------------------|-------|------------|------|
| 01 | 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 10.13 | 120000 | NJ D |
| 02 | | Unknown-01 | 10.79 | 140000 | J D |
| 03 | | Unknown-02 | 10.86 | 91000 | J D |
| 04 | 243-17-4 | 11H-Benzo[b]fluorene | 11.28 | 13000 | NJ D |
| 05 | 3442-78-2 | Pyrene, 2-methyl- | 11.36 | 8100 | NJ D |
| 06 | 239-35-0 | Benzo[b]naphtho[2,1-d]thiophene | 12.06 | 8900 | NJ D |
| 07 | | Unknown-03 | 12.14 | 8800 | J D |
| 08 | 479-79-8 | 11H-Benzo[a]fluoren-11-one | 12.19 | 7400 | NJ D |
| 09 | 82-05-3 | 7H-Benz[de]anthracen-7-one | 12.63 | 6600 | NJ D |
| 10 | | Unknown-04 | 12.73 | 6700 | J D |
| 11 | 1705-84-6 | Triphenylene, 2-methyl- | 12.98 | 7800 | NJ D |
| 12 | | Unknown-05 | 13.76 | 45000 | J D |
| 13 | 192-97-2 | Benzo[e]pyrene | 14.17 | 100000 | NJ D |
| 14 | | Unknown-06 | 14.29 | 36000 | J D |
| 15 | 198-55-0 | Perylene | 14.67 | 160000 | NJ D |
| 16 | 239-85-0 | 13H-Dibenzo[a,h]fluorene | 14.91 | 36000 | NJ D |
| 17 | 135-48-8 | Pentacene | 16.35 | 40000 | NJ D |
| 18 | 191-26-4 | Dibenzo[def,mno]chrysene | 16.40 | 64000 | NJ D |
| 19 | 214-17-5 | Benzo[b]chrysene | 16.85 | 49000 | NJ D |
| 20 | 215-58-7 | Benzo[b]triphenylene | 16.93 | 55000 | NJ D |
| 21 | 189-55-9 | Dibenzo(a,i)pyrene | 20.18 | 96000 | NJ D |
| 22 | 189-64-0 | 3,4:8,9-Dibenzopyrene | 20.44 | 79000 | NJ D |
| 23 | 192-65-4 | 1,2:4,5-Dibenzopyrene | 20.54 | 54000 | NJ D |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110214
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 100.0
 Cleanup Factor: 2
 _____ ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|---------------------------------|---------------|-----|
| 123-91-1 | 1,4-Dioxane | 32000 | U |
| 100-52-7 | Benzaldehyde | 160000 | U |
| 108-95-2 | Phenol | 160000 | U |
| 111-44-4 | Bis(2-Chloroethyl) ether | 160000 | U |
| 95-57-8 | 2-Chlorophenol | 82000 | U |
| 95-48-7 | 2-Methylphenol | 160000 | U |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 160000 | U |
| 98-86-2 | Acetophenone | 160000 | U |
| 106-44-5 | 3-Methylphenol + 4-Methylphenol | 160000 | U |
| 621-64-7 | N-Nitroso-di-n propylamine | 82000 | U |
| 67-72-1 | Hexachloroethane | 82000 | U |
| 98-95-3 | Nitrobenzene | 82000 | U |
| 78-59-1 | Isophorone | 82000 | U |
| 88-75-5 | 2-Nitrophenol | 82000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 82000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 82000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 82000 | U |
| 91-20-3 | Naphthalene | 98000 | D |
| 106-47-8 | 4-Chloroaniline | 160000 | U |
| 87-68-3 | Hexachlorobutadiene | 82000 | U |
| 105-60-2 | Caprolactam | 160000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 82000 | U |
| 91-57-6 | 2-Methylnaphthalene | 19000 | J D |
| 77-47-4 | Hexachlorocyclo-pentadiene | 160000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 82000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 82000 | U |
| 92-52-4 | 1,1'-Biphenyl | 82000 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110214
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 100.0
 Cleanup Factor: 2

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|-----|
| 91-58-7 | 2-Chloronaphthalene | 82000 | U |
| 88-74-4 | 2-Nitroaniline | 82000 | U |
| 131-11-3 | Dimethylphthalate | 82000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 82000 | U |
| 208-96-8 | Acenaphthylene | 150000 | D |
| 99-09-2 | 3-Nitroaniline | 160000 | U |
| 83-32-9 | Acenaphthene | 82000 | U |
| 51-28-5 | 2,4-Dinitrophenol | 160000 | U |
| 100-02-7 | 4-Nitrophenol | 160000 | U |
| 132-64-9 | Dibenzofuran | 37000 | J D |
| 121-14-2 | 2,4-Dinitrotoluene | 82000 | U |
| 84-66-2 | Diethylphthalate | 82000 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 82000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 82000 | U |
| 86-73-7 | Fluorene | 30000 | J D |
| 100-01-6 | 4-Nitroaniline | 160000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 160000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 82000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 82000 | U |
| 118-74-1 | Hexachlorobenzene | 82000 | U |
| 1912-24-9 | Atrazine | 160000 | U |
| 87-86-5 | Pentachlorophenol | 160000 | U |
| 85-01-8 | Phenanthrene | 420000 | D |
| 120-12-7 | Anthracene | 120000 | D |
| 86-74-8 | Carbazole | 40000 | J D |
| 84-74-2 | Di-n-butylphthalate | 82000 | U |
| 206-44-0 | Fluoranthene | 1100000 | D |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: SVOA Level: LOW
 Matrix: Soil Lab Sample ID: TJ23060-020
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: 12110214
 % Solids: 81.4 Date Received: 10/24/2018
 GC Column: Zebtron ZB-SV ID: 0.25 (mm) Date Extracted: 10/24/2018
 GC Column: _____ ID: _____ (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 2000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 100.0
 Cleanup Types: GPC Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|----|
| 129-00-0 | Pyrene | 920000 | D |
| 85-68-7 | Butylbenzylphthalate | 82000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 160000 | U |
| 56-55-3 | Benzo(a)anthracene | 570000 | D |
| 218-01-9 | Chrysene | 560000 | D |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 82000 | U |
| 117-84-0 | Di-n-octylphthalate | 160000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 810000 | D |
| 207-08-9 | Benzo(k)fluoranthene | 290000 | D |
| 50-32-8 | Benzo(a)pyrene | 560000 | D |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 420000 | D |
| 53-70-3 | Dibenzo(a,h)anthracene | 82000 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 410000 | DB |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 82000 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ESNQ3DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TJ23060-020
 Lab File ID: 12110214
 Date Received: 10/24/2018
 Date Extracted: 10/24/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 2000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 100.0
 Cleanup Factor: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----|----------------------|----------------------------------|-------|------------|------|
| 01 | 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 10.13 | 120000 | NJ D |
| 02 | 5737-13-3 | Cyclopenta(def)phenanthrenone | 10.62 | 61000 | NJ D |
| 03 | | Unknown-01 | 10.79 | 120000 | J D |
| 04 | | Unknown-02 | 10.86 | 63000 | J D |
| 05 | 243-42-5 | Benzo[b]naphtho[2,3-d]furan | 10.90 | 110000 | NJ D |
| 06 | 33543-31-6 | Fluoranthene, 2-methyl- | 11.28 | 40000 | NJ D |
| 07 | 243-46-9 | Benzo[b]naphtho[2,3-d]thiophene | 12.06 | 38000 | NJ D |
| 08 | 203-12-3 | Benzo[ghi]fluoranthene | 12.13 | 38000 | NJ D |
| 09 | 7476-08-6 | Benz(a)anthracene-7-carbonitrile | 13.75 | 82000 | NJ D |
| 10 | 192-97-2 | Benzo[e]pyrene | 14.15 | 180000 | NJ D |
| 11 | 207-93-2 | Dinaphtho[1,2-b:1',2'-d]furan | 14.27 | 58000 | NJ D |
| 12 | 198-55-0 | Perylene | 14.43 | 430000 | NJ D |
| 13 | 205-82-3 | Benzo[j]fluoranthene | 14.64 | 240000 | NJ D |
| 14 | | Unknown-03 | 15.37 | 53000 | J D |
| 15 | | Unknown-04 | 16.32 | 73000 | J D |
| 16 | | Unknown-05 | 16.37 | 78000 | J D |
| 17 | 213-46-7 | Picene | 16.81 | 73000 | NJ D |
| 18 | 215-58-7 | Benzo[b]triphenylene | 16.89 | 56000 | NJ D |
| 19 | 193-43-1 | Indeno[1,2,3-cd]fluoranthene | 17.50 | 73000 | NJ D |
| 20 | 189-64-0 | 3,4:8,9-Dibenzopyrene | 20.13 | 75000 | NJ D |
| 21 | 189-55-9 | Dibenzo(a,i)pyrene | 20.38 | 94000 | NJ D |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796 ² | Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SBLK68

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: Zebron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87468-001
 Lab File ID: 12110109
 Date Received: _____
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|-----------|-----------------------------|---------------|---|
| 91-58-7 | 2-Chloronaphthalene | 170 | U |
| 88-74-4 | 2-Nitroaniline | 170 | U |
| 131-11-3 | Dimethylphthalate | 170 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 170 | U |
| 208-96-8 | Acenaphthylene | 170 | U |
| 99-09-2 | 3-Nitroaniline | 330 | U |
| 83-32-9 | Acenaphthene | 170 | U |
| 51-28-5 | 2,4-Dinitrophenol | 330 | U |
| 100-02-7 | 4-Nitrophenol | 330 | U |
| 132-64-9 | Dibenzofuran | 170 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 170 | U |
| 84-66-2 | Diethylphthalate | 170 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 170 | U |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 170 | U |
| 86-73-7 | Fluorene | 170 | U |
| 100-01-6 | 4-Nitroaniline | 330 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 330 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 170 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 170 | U |
| 118-74-1 | Hexachlorobenzene | 170 | U |
| 1912-24-9 | Atrazine | 330 | U |
| 87-86-5 | Pentachlorophenol | 330 | U |
| 85-01-8 | Phenanthrene | 170 | U |
| 120-12-7 | Anthracene | 170 | U |
| 86-74-8 | Carbazole | 330 | U |
| 84-74-2 | Di-n-butylphthalate | 170 | U |
| 206-44-0 | Fluoranthene | 330 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

SBLK68

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87468-001
 Lab File ID: 12110109
 Date Received: _____
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|----------|----------------------------|---------------|---|
| 129-00-0 | Pyrene | 170 | U |
| 85-68-7 | Butylbenzylphthalate | 170 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3 | Benzo (a) anthracene | 170 | U |
| 218-01-9 | Chrysene | 170 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 170 | U |
| 117-84-0 | Di-n-octylphthalate | 330 | U |
| 205-99-2 | Benzo (b) fluoranthene | 170 | U |
| 207-08-9 | Benzo (k) fluoranthene | 170 | U |
| 50-32-8 | Benzo (a) pyrene | 170 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 170 | U |
| 53-70-3 | Dibenzo (a,h) anthracene | 170 | U |
| 191-24-2 | Benzo (g,h,i) perylene | 350 | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 170 | U |

FORM 1B-OR
 ORGANIC ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK68

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: SVOA
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: Zebtron ZB-SV ID: 0.25 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC
 Concentration Units (ug/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: LOW
 Lab Sample ID: TQ87468-001
 Lab File ID: 12110109
 Date Received: _____
 Date Extracted: 10/24/2018
 Date Analyzed: 11/01/2018
 Extract Volume: 500 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|------------------------------------|------|------------|---|
| 01 | Unknown-01 | 4.47 | 530 | J |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
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| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| | E966796 ² Total Alkanes | N/A | | |

²EPA-designated Registry Number.

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) 9
 % Solids: 38.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-010
 Lab File ID: 019F2001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|---------------------|
| 319-84-6 | alpha-BHC | 4.4 | U |
| 319-85-7 | beta-BHC | 4.4 | 1.4 JPBU |
| 319-86-8 | delta-BHC | 0.61 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 4.4 | U |
| 76-44-8 | Heptachlor | 4.4 | U |
| 309-00-2 | Aldrin | 0.96 | J |
| 1024-57-3 | Heptachlor epoxide | 4.4 | U |
| 959-98-8 | Endosulfan I | 4.4 | U |
| 60-57-1 | Dieldrin | 4.8 | JP |
| 72-55-9 | 4,4'-DDE | 80 | |
| 72-20-8 | Endrin | 8.5 | U |
| 33213-65-9 | Endosulfan II | 8.5 | U |
| 72-54-8 | 4,4'-DDD | 250 | E |
| 1031-07-8 | Endosulfan sulfate | 8.5 | U |
| 50-29-3 | 4,4'-DDT | 24 | |
| 72-43-5 | Methoxychlor | 44 | U |
| 53494-70-5 | Endrin ketone | 2.5 | JP |
| 7421-93-4 | Endrin aldehyde | 1.3 | JP |
| 5103-71-9 | cis-Chlordane | 4.4 | U |
| 5103-74-2 | trans-Chlordane | 24 | P |
| 8001-35-2 | Toxaphene | 440 | U |

ack
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP3DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 38.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-010
 Lab File ID: 004F0401
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 10.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|-----|
| 319-84-6 | alpha-BHC | 44 | U |
| 319-85-7 | beta-BHC | 44 | U |
| 319-86-8 | delta-BHC | 44 | U |
| 58-89-9 | gamma-BHC (Lindane) | 44 | U |
| 76-44-8 | Heptachlor | 44 | U |
| 309-00-2 | Aldrin | 44 | U |
| 1024-57-3 | Heptachlor epoxide | 44 | U |
| 959-98-8 | Endosulfan I | 44 | U |
| 60-57-1 | Dieldrin | 85 | U |
| 72-55-9 | 4,4'-DDE | 80 | J D |
| 72-20-8 | Endrin | 85 | U |
| 33213-65-9 | Endosulfan II | 85 | U |
| 72-54-8 | 4,4'-DDD | 260 | D |
| 1031-07-8 | Endosulfan sulfate | 85 | U |
| 50-29-3 | 4,4'-DDT | 85 | U |
| 72-43-5 | Methoxychlor | 16 | J D |
| 53494-70-5 | Endrin ketone | 85 | U |
| 7421-93-4 | Endrin aldehyde | 85 | U |
| 5103-71-9 | cis-Chlordane | 44 | U |
| 5103-74-2 | trans-Chlordane | 29 | J D |
| 8001-35-2 | Toxaphene | 4400 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 42.4
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-011
 Lab File ID: 028F2901
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|-----------------|
| 319-84-6 | alpha-BHC | 4.0 0.31 | JP U |
| 319-85-7 | beta-BHC | 17 | PB |
| 319-86-8 | delta-BHC | 1.7 | J |
| 58-89-9 | gamma-BHC (Lindane) | 4.0 | U |
| 76-44-8 | Heptachlor | 6.3 | P |
| 309-00-2 | Aldrin | 3.3 | JP |
| 1024-57-3 | Heptachlor epoxide | 2.8 | JP |
| 959-98-8 | Endosulfan I | 2.0 | JP |
| 60-57-1 | Dieldrin | 13 | P |
| 72-55-9 | 4,4'-DDE | 25 | P |
| 72-20-8 | Endrin | 2.6 | JP |
| 33213-65-9 | Endosulfan II | 7.8 | U |
| 72-54-8 | 4,4'-DDD | 38 | |
| 1031-07-8 | Endosulfan sulfate | 7.8 | U |
| 50-29-3 | 4,4'-DDT | 30 | P |
| 72-43-5 | Methoxychlor | 120 | |
| 53494-70-5 | Endrin ketone | 2.8 | JP |
| 7421-93-4 | Endrin aldehyde | 7.6 | J |
| 5103-71-9 | cis-Chlordane | 5.2 | P |
| 5103-74-2 | trans-Chlordane | 6.2 | P |
| 8001-35-2 | Toxaphene | 400 | U |

ack
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP4RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: PEST Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-011
 Sample wt/vol: 30.1 (g/mL) g Lab File ID: 008F0801
 % Solids: 42.4 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 5000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: GPC, Florisil Cleanup Factor: 2,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 0.65 | JP |
| 319-85-7 | beta-BHC | 22 | PB |
| 319-86-8 | delta-BHC | 0.60 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 4.0 | U |
| 76-44-8 | Heptachlor | 6.1 | P |
| 309-00-2 | Aldrin | 3.3 | JP |
| 1024-57-3 | Heptachlor epoxide | 2.7 | JP |
| 959-98-8 | Endosulfan I | 1.4 | JP |
| 60-57-1 | Dieldrin | 11 | P |
| 72-55-9 | 4,4'-DDE | 26 | P |
| 72-20-8 | Endrin | 7.8 | U |
| 33213-65-9 | Endosulfan II | 7.8 | U |
| 72-54-8 | 4,4'-DDD | 35 | |
| 1031-07-8 | Endosulfan sulfate | 0.92 | JP |
| 50-29-3 | 4,4'-DDT | 30 | P |
| 72-43-5 | Methoxychlor | 120 | |
| 53494-70-5 | Endrin ketone | 32 | |
| 7421-93-4 | Endrin aldehyde | 5.9 | JP |
| 5103-71-9 | cis-Chlordane | 5.9 | P |
| 5103-74-2 | trans-Chlordane | 6.1 | P |
| 8001-35-2 | Toxaphene | 400 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 67.0
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-012
 Lab File ID: 029F3001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|------|
| 319-84-6 | alpha-BHC | 2.5 | U |
| 319-85-7 | beta-BHC | 2.5 0.80 | JPBU |
| 319-86-8 | delta-BHC | 0.38 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 8.6 | |
| 76-44-8 | Heptachlor | 1.8 | JP |
| 309-00-2 | Aldrin | 0.86 | J |
| 1024-57-3 | Heptachlor epoxide | 0.86 | JP |
| 959-98-8 | Endosulfan I | 0.51 | JP |
| 60-57-1 | Dieldrin | 7.6 | P |
| 72-55-9 | 4,4'-DDE | 43 | |
| 72-20-8 | Endrin | 0.52 | JP |
| 33213-65-9 | Endosulfan II | 4.9 | U |
| 72-54-8 | 4,4'-DDD | 3.2 | JP |
| 1031-07-8 | Endosulfan sulfate | 1.9 | JP |
| 50-29-3 | 4,4'-DDT | 72 | |
| 72-43-5 | Methoxychlor | 110 | |
| 53494-70-5 | Endrin ketone | 0.76 | JP |
| 7421-93-4 | Endrin aldehyde | 1.0 | JP |
| 5103-71-9 | cis-Chlordane | 0.90 | JP |
| 5103-74-2 | trans-Chlordane | 0.49 | JP |
| 8001-35-2 | Toxaphene | 250 | U |

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12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP5RE

*Not Used
 ACK
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.3 (g/mL) g
 % Solids: 67.0
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-012
 Lab File ID: 009F0901
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|-------|
| 319-84-6 | alpha-BHC | 2.5 | U |
| 319-85-7 | beta-BHC | 2.5 0.78 | JP/UV |
| 319-86-8 | delta-BHC | 0.39 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 9.4 | |
| 76-44-8 | Heptachlor | 2.2 | JP |
| 309-00-2 | Aldrin | 1.0 | J |
| 1024-57-3 | Heptachlor epoxide | 0.88 | JP |
| 959-98-8 | Endosulfan I | 1.1 | J |
| 60-57-1 | Dieldrin | 7.8 | P |
| 72-55-9 | 4,4'-DDE | 44 | |
| 72-20-8 | Endrin | 0.52 | JP |
| 33213-65-9 | Endosulfan II | 4.9 | U |
| 72-54-8 | 4,4'-DDD | 3.2 | JP |
| 1031-07-8 | Endosulfan sulfate | 1.8 | JP |
| 50-29-3 | 4,4'-DDT | 73 | |
| 72-43-5 | Methoxychlor | 110 | |
| 53494-70-5 | Endrin ketone | 28 | P |
| 7421-93-4 | Endrin aldehyde | 0.98 | JP |
| 5103-71-9 | cis-Chlordane | 2.5 | U |
| 5103-74-2 | trans-Chlordane | 1.3 | JP |
| 8001-35-2 | Toxaphene | 250 | U |

*ack
 12-11-19*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.8 (g/mL) g
 % Solids: 51.5
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-013
 Lab File ID: 030F3101
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|--------------------|-----------------|
| 319-84-6 | alpha-BHC | 3.2 | U |
| 319-85-7 | beta-BHC | 3.2 1.4 | JP U |
| 319-86-8 | delta-BHC | 3.2 | U |
| 58-89-9 | gamma-BHC (Lindane) | 7.9 | |
| 76-44-8 | Heptachlor | 3.2 | U |
| 309-00-2 | Aldrin | 3.2 | U |
| 1024-57-3 | Heptachlor epoxide | 0.69 | JP |
| 959-98-8 | Endosulfan I | 3.2 | U |
| 60-57-1 | Dieldrin | 7.1 | P |
| 72-55-9 | 4,4'-DDE | 10 | |
| 72-20-8 | Endrin | 2.3 | JP |
| 33213-65-9 | Endosulfan II | 14 | P |
| 72-54-8 | 4,4'-DDD | 1.5 | JP |
| 1031-07-8 | Endosulfan sulfate | 2.7 | JP |
| 50-29-3 | 4,4'-DDT | 21 | |
| 72-43-5 | Methoxychlor | 150 | |
| 53494-70-5 | Endrin ketone | 43 | P |
| 7421-93-4 | Endrin aldehyde | 2.9 | JP |
| 5103-71-9 | cis-Chlordane | 3.2 | U |
| 5103-74-2 | trans-Chlordane | 3.2 | U |
| 8001-35-2 | Toxaphene | 320 | U |

ack
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP6RE

*Not Used
ack
1-20-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.8 (g/mL) g
 % Solids: 51.5
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-013
 Lab File ID: 010F1001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|------|
| 319-84-6 | alpha-BHC | 3.2 | U |
| 319-85-7 | beta-BHC | 3.2 | JPBU |
| 319-86-8 | delta-BHC | 0.64 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 3.2 | U |
| 76-44-8 | Heptachlor | 3.2 | U |
| 309-00-2 | Aldrin | 3.2 | U |
| 1024-57-3 | Heptachlor epoxide | 0.67 | JP |
| 959-98-8 | Endosulfan I | 3.2 | U |
| 60-57-1 | Dieldrin | 4.8 | JP |
| 72-55-9 | 4,4'-DDE | 11 | |
| 72-20-8 | Endrin | 2.4 | JP |
| 33213-65-9 | Endosulfan II | 14 | P |
| 72-54-8 | 4,4'-DDD | 1.4 | JP |
| 1031-07-8 | Endosulfan sulfate | 2.6 | JP |
| 50-29-3 | 4,4'-DDT | 22 | |
| 72-43-5 | Methoxychlor | 150 | |
| 53494-70-5 | Endrin ketone | 48 | |
| 7421-93-4 | Endrin aldehyde | 2.7 | JP |
| 5103-71-9 | cis-Chlordane | 0.42 | JP |
| 5103-74-2 | trans-Chlordane | 3.2 | U |
| 8001-35-2 | Toxaphene | 320 | U |

*ack
12-11-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014
 Lab File ID: 031F3201
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|------|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 0.96 | JPBV |
| 319-86-8 | delta-BHC | 0.47 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 15 | P |
| 76-44-8 | Heptachlor | 1.5 | JP |
| 309-00-2 | Aldrin | 2.3 | U |
| 1024-57-3 | Heptachlor epoxide | 1.5 | JP |
| 959-98-8 | Endosulfan I | 0.67 | JP |
| 60-57-1 | Dieldrin | 9.8 | P |
| 72-55-9 | 4,4'-DDE | 8.7 | P |
| 72-20-8 | Endrin | 1.0 | JP |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 0.71 | JP |
| 1031-07-8 | Endosulfan sulfate | 3.4 | JP |
| 50-29-3 | 4,4'-DDT | 25 | |
| 72-43-5 | Methoxychlor | 170 | |
| 53494-70-5 | Endrin ketone | 2.4 | JP |
| 7421-93-4 | Endrin aldehyde | 1.5 | JP |
| 5103-71-9 | cis-Chlordane | 1.8 | JP |
| 5103-74-2 | trans-Chlordane | 0.50 | JP |
| 8001-35-2 | Toxaphene | 230 | U |

ack
 12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7MS(1)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MS
 Lab File ID: 032F3301
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

*Not Used
 ACK
 1-30-19*

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|-----------------|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 0.51 | JPBU |
| 319-86-8 | delta-BHC | 0.36 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 12 | P |
| 76-44-8 | Heptachlor | 19 | P |
| 309-00-2 | Aldrin | 13 | |
| 1024-57-3 | Heptachlor epoxide | 4.3 | P |
| 959-98-8 | Endosulfan I | 1.2 | JP |
| 60-57-1 | Dieldrin | 57 | P |
| 72-55-9 | 4,4'-DDE | 8.6 | P |
| 72-20-8 | Endrin | 36 | P |
| 33213-65-9 | Endosulfan II | 14 | P |
| 72-54-8 | 4,4'-DDD | 2.3 | JP |
| 1031-07-8 | Endosulfan sulfate | 3.2 | JP |
| 50-29-3 | 4,4'-DDT | 64 | |
| 72-43-5 | Methoxychlor | 160 | |
| 53494-70-5 | Endrin ketone | 49 | P |
| 7421-93-4 | Endrin aldehyde | 10 | P |
| 5103-71-9 | cis-Chlordane | 1.7 | JP |
| 5103-74-2 | trans-Chlordane | 0.34 | JP |
| 8001-35-2 | Toxaphene | 230 | U |

*ACK
 12-11-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7MS(2)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MS
 Lab File ID: 032F3301
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2.1

*Not Used
 ACK
 1-30-19*

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|---------------------|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | 1.0 JPBU |
| 319-86-8 | delta-BHC | 1.0 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 19 | P |
| 76-44-8 | Heptachlor | 14 | P |
| 309-00-2 | Aldrin | 12 | |
| 1024-57-3 | Heptachlor epoxide | 1.3 | JP |
| 959-98-8 | Endosulfan I | 0.56 | JP |
| 60-57-1 | Dieldrin | 36 | P |
| 72-55-9 | 4,4'-DDE | 11 | P |
| 72-20-8 | Endrin | 47 | P |
| 33213-65-9 | Endosulfan II | 5.4 | P |
| 72-54-8 | 4,4'-DDD | 0.79 | JP |
| 1031-07-8 | Endosulfan sulfate | 5.3 | P |
| 50-29-3 | 4,4'-DDT | 59 | |
| 72-43-5 | Methoxychlor | 140 | |
| 53494-70-5 | Endrin ketone | 3.3 | JP |
| 7421-93-4 | Endrin aldehyde | 1.3 | JP |
| 5103-71-9 | cis-Chlordane | 2.8 | P |
| 5103-74-2 | trans-Chlordane | 14 | P |
| 8001-35-2 | Toxaphene | 230 | U |

*ack
 12-11-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7MSD(1)

*Not Used
 OK
 1-2-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MD
 Lab File ID: 033F3401
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2.1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 0.42 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 12 | P |
| 76-44-8 | Heptachlor | 21 | P |
| 309-00-2 | Aldrin | 14 | |
| 1024-57-3 | Heptachlor epoxide | 1.8 | JP |
| 959-98-8 | Endosulfan I | 1.1 | JP |
| 60-57-1 | Dieldrin | 63 | P |
| 72-55-9 | 4,4'-DDE | 8.2 | P |
| 72-20-8 | Endrin | 33 | P |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 3.0 | JP |
| 1031-07-8 | Endosulfan sulfate | 2.9 | JP |
| 50-29-3 | 4,4'-DDT | 74 | E |
| 72-43-5 | Methoxychlor | 190 | |
| 53494-70-5 | Endrin ketone | 55 | P |
| 7421-93-4 | Endrin aldehyde | 11 | P |
| 5103-71-9 | cis-Chlordane | 0.72 | JP |
| 5103-74-2 | trans-Chlordane | 2.3 | U |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7MSD(2)

*Not Used
 aca
 1-20-17*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MD
 Lab File ID: 033F3401
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 1.0 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 17 | P |
| 76-44-8 | Heptachlor | 15 | P |
| 309-00-2 | Aldrin | 13 | |
| 1024-57-3 | Heptachlor epoxide | 1.4 | JP |
| 959-98-8 | Endosulfan I | 0.50 | JP |
| 60-57-1 | Dieldrin | 39 | P |
| 72-55-9 | 4,4'-DDE | 11 | P |
| 72-20-8 | Endrin | 52 | P |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 0.74 | JP |
| 1031-07-8 | Endosulfan sulfate | 6.3 | P |
| 50-29-3 | 4,4'-DDT | 68 | |
| 72-43-5 | Methoxychlor | 160 | |
| 53494-70-5 | Endrin ketone | 2.3 | JP |
| 7421-93-4 | Endrin aldehyde | 1.4 | JP |
| 5103-71-9 | cis-Chlordane | 3.2 | P |
| 5103-74-2 | trans-Chlordane | 2.3 | U |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7RE

*Not Used
 ACX
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014
 Lab File ID: 011F1101
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 0.48 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 19 | P |
| 76-44-8 | Heptachlor | 1.7 | JP |
| 309-00-2 | Aldrin | 0.52 | JP |
| 1024-57-3 | Heptachlor epoxide | 1.7 | JP |
| 959-98-8 | Endosulfan I | 0.88 | JP |
| 60-57-1 | Dieldrin | 11 | P |
| 72-55-9 | 4,4'-DDE | 9.3 | P |
| 72-20-8 | Endrin | 1.5 | JP |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 0.55 | JP |
| 1031-07-8 | Endosulfan sulfate | 3.6 | JP |
| 50-29-3 | 4,4'-DDT | 26 | |
| 72-43-5 | Methoxychlor | 180 | |
| 53494-70-5 | Endrin ketone | 53 | |
| 7421-93-4 | Endrin aldehyde | 1.5 | JP |
| 5103-71-9 | cis-Chlordane | 1.7 | JP |
| 5103-74-2 | trans-Chlordane | 0.42 | JP |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7REMS(2)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MS
 Lab File ID: 012F1201
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 1.0 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 18 | P |
| 76-44-8 | Heptachlor | 14 | P |
| 309-00-2 | Aldrin | 13 | |
| 1024-57-3 | Heptachlor epoxide | 1.5 | J |
| 959-98-8 | Endosulfan I | 0.63 | JP |
| 60-57-1 | Dieldrin | 38 | P |
| 72-55-9 | 4,4'-DDE | 12 | P |
| 72-20-8 | Endrin | 49 | P |
| 33213-65-9 | Endosulfan II | 5.6 | P |
| 72-54-8 | 4,4'-DDD | 0.76 | JP |
| 1031-07-8 | Endosulfan sulfate | 8.3 | P |
| 50-29-3 | 4,4'-DDT | 61 | |
| 72-43-5 | Methoxychlor | 150 | |
| 53494-70-5 | Endrin ketone | 43 | |
| 7421-93-4 | Endrin aldehyde | 1.3 | JP |
| 5103-71-9 | cis-Chlordane | 2.8 | P |
| 5103-74-2 | trans-Chlordane | 20 | P |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7REMSD(1)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.2 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MD
 Lab File ID: 013F1301
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 0.43 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 14 | P |
| 76-44-8 | Heptachlor | 12 | P |
| 309-00-2 | Aldrin | 15 | |
| 1024-57-3 | Heptachlor epoxide | 0.83 | JP |
| 959-98-8 | Endosulfan I | 1.1 | JP |
| 60-57-1 | Dieldrin | 71 | P |
| 72-55-9 | 4,4'-DDE | 8.6 | P |
| 72-20-8 | Endrin | 43 | P |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 5.6 | P |
| 1031-07-8 | Endosulfan sulfate | 2.8 | JP |
| 50-29-3 | 4,4'-DDT | 83 | E |
| 72-43-5 | Methoxychlor | 200 | |
| 53494-70-5 | Endrin ketone | 58 | P |
| 7421-93-4 | Endrin aldehyde | 14 | P |
| 5103-71-9 | cis-Chlordane | 1.7 | JP |
| 5103-74-2 | trans-Chlordane | 0.72 | JP |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP7REMSD(2)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: PEST Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-014MD
 Sample wt/vol: 30.2 (g/mL) g Lab File ID: 013F1301
 % Solids: 72.6 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 11/02/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 5000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: GPC, Florisil Cleanup Factor: 2,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.3 | U |
| 319-85-7 | beta-BHC | 2.3 | U |
| 319-86-8 | delta-BHC | 1.0 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 18 | P |
| 76-44-8 | Heptachlor | 16 | P |
| 309-00-2 | Aldrin | 14 | |
| 1024-57-3 | Heptachlor epoxide | 1.5 | JP |
| 959-98-8 | Endosulfan I | 0.71 | JP |
| 60-57-1 | Dieldrin | 42 | P |
| 72-55-9 | 4,4'-DDE | 12 | P |
| 72-20-8 | Endrin | 54 | P |
| 33213-65-9 | Endosulfan II | 4.5 | U |
| 72-54-8 | 4,4'-DDD | 0.80 | JP |
| 1031-07-8 | Endosulfan sulfate | 7.1 | P |
| 50-29-3 | 4,4'-DDT | 70 | |
| 72-43-5 | Methoxychlor | 170 | |
| 53494-70-5 | Endrin ketone | 37 | P |
| 7421-93-4 | Endrin aldehyde | 1.5 | JP |
| 5103-71-9 | cis-Chlordane | 3.2 | P |
| 5103-74-2 | trans-Chlordane | 23 | P |
| 8001-35-2 | Toxaphene | 230 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

LAB SAMPLE NO.
 ESNP8

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: PEST Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-015
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: 034F3501
 % Solids: 70.2 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 10/31/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 5000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: GPC, Florisil Cleanup Factor: 2.1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|-----------------|
| 319-84-6 | alpha-BHC | 2.4 | U |
| 319-85-7 | beta-BHC | 2.4 0.53 | JPBU |
| 319-86-8 | delta-BHC | 0.32 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 6.0 | P |
| 76-44-8 | Heptachlor | 1.3 | JP |
| 309-00-2 | Aldrin | 2.4 | U |
| 1024-57-3 | Heptachlor epoxide | 0.39 | JP |
| 959-98-8 | Endosulfan I | 0.37 | JP |
| 60-57-1 | Dieldrin | 6.3 | P |
| 72-55-9 | 4,4'-DDE | 250 | E |
| 72-20-8 | Endrin | 1.3 | JP |
| 33213-65-9 | Endosulfan II | 4.6 | U |
| 72-54-8 | 4,4'-DDD | 4.7 | |
| 1031-07-8 | Endosulfan sulfate | 5.5 | P |
| 50-29-3 | 4,4'-DDT | 260 | E |
| 72-43-5 | Methoxychlor | 65 | |
| 53494-70-5 | Endrin ketone | 0.85 | JP |
| 7421-93-4 | Endrin aldehyde | 8.1 | |
| 5103-71-9 | cis-Chlordane | 2.4 | U |
| 5103-74-2 | trans-Chlordane | 2.4 | U |
| 8001-35-2 | Toxaphene | 240 | U |

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FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP8DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 70.2
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-015
 Lab File ID: 015F1501
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 10.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|------|
| 319-84-6 | alpha-BHC | 24 | U |
| 319-85-7 | beta-BHC | 24 | U |
| 319-86-8 | delta-BHC | 24 | U |
| 58-89-9 | gamma-BHC (Lindane) | 6.1 | J D |
| 76-44-8 | Heptachlor | 24 | U |
| 309-00-2 | Aldrin | 24 | U |
| 1024-57-3 | Heptachlor epoxide | 24 | U |
| 959-98-8 | Endosulfan I | 24 | U |
| 60-57-1 | Dieldrin | 46 | U |
| 72-55-9 | 4,4'-DDE | 230 | D |
| 72-20-8 | Endrin | 3.5 | J DP |
| 33213-65-9 | Endosulfan II | 46 | U |
| 72-54-8 | 4,4'-DDD | 8.6 | J D |
| 1031-07-8 | Endosulfan sulfate | 7.0 | J DP |
| 50-29-3 | 4,4'-DDT | 210 | D |
| 72-43-5 | Methoxychlor | 73 | J DP |
| 53494-70-5 | Endrin ketone | 13 | J DP |
| 7421-93-4 | Endrin aldehyde | 10 | J D |
| 5103-71-9 | cis-Chlordane | 24 | U |
| 5103-74-2 | trans-Chlordane | 24 | U |
| 8001-35-2 | Toxaphene | 2400 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.7 (g/mL) 9
 % Solids: 77.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-016
 Lab File ID: 020F2101
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----------------|
| 319-84-6 | alpha-BHC | 2.1 | U |
| 319-85-7 | beta-BHC | 2.1 | JPB |
| 319-86-8 | delta-BHC | 0.84 | J |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U |
| 76-44-8 | Heptachlor | 2.1 | U |
| 309-00-2 | Aldrin | 2.1 | U |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U |
| 959-98-8 | Endosulfan I | 0.54 | JP |
| 60-57-1 | Dieldrin | 1.3 | JP |
| 72-55-9 | 4,4'-DDE | 0.52 | J |
| 72-20-8 | Endrin | 4.2 | U |
| 33213-65-9 | Endosulfan II | 4.2 | U |
| 72-54-8 | 4,4'-DDD | 4.2 | U |
| 1031-07-8 | Endosulfan sulfate | 4.2 | U |
| 50-29-3 | 4,4'-DDT | 4.2 | U |
| 72-43-5 | Methoxychlor | 2.6 | J |
| 53494-70-5 | Endrin ketone | 4.2 | U |
| 7421-93-4 | Endrin aldehyde | 4.2 | U |
| 5103-71-9 | cis-Chlordane | 0.59 | J |
| 5103-74-2 | trans-Chlordane | 0.67 | JP |
| 8001-35-2 | Toxaphene | 210 | U |

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12-11-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.9 (g/mL) g
 % Solids: 67.7
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-017
 Lab File ID: 035F3601
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|---------------------------------|
| 319-84-6 | alpha-BHC | 2.4 | U |
| 319-85-7 | beta-BHC | 2.4 | 1.3 JPB U |
| 319-86-8 | delta-BHC | 0.41 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 8.3 | P |
| 76-44-8 | Heptachlor | 1.8 | JP |
| 309-00-2 | Aldrin | 0.28 | JP |
| 1024-57-3 | Heptachlor epoxide | 0.83 | JP |
| 959-98-8 | Endosulfan I | 1.3 | J |
| 60-57-1 | Dieldrin | 7.9 | P |
| 72-55-9 | 4,4'-DDE | 41 | |
| 72-20-8 | Endrin | 0.92 | JP |
| 33213-65-9 | Endosulfan II | 2.7 | JP |
| 72-54-8 | 4,4'-DDD | 4.3 | J |
| 1031-07-8 | Endosulfan sulfate | 1.8 | JP |
| 50-29-3 | 4,4'-DDT | 56 | |
| 72-43-5 | Methoxychlor | 130 | |
| 53494-70-5 | Endrin ketone | 5.4 | P |
| 7421-93-4 | Endrin aldehyde | 9.7 | |
| 5103-71-9 | cis-Chlordane | 2.0 | JP |
| 5103-74-2 | trans-Chlordane | 0.41 | J |
| 8001-35-2 | Toxaphene | 240 | U |

act
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ0RE

*Not Used
act
1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.9 (g/mL) g
 % Solids: 67.7
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-017
 Lab File ID: 016F1601
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2.1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 2.4 | U |
| 319-85-7 | beta-BHC | 2.4 | U |
| 319-86-8 | delta-BHC | 0.74 | J |
| 58-89-9 | gamma-BHC (Lindane) | 2.4 | U |
| 76-44-8 | Heptachlor | 2.4 | U |
| 309-00-2 | Aldrin | 2.4 | U |
| 1024-57-3 | Heptachlor epoxide | 2.4 | U |
| 959-98-8 | Endosulfan I | 2.4 | U |
| 60-57-1 | Dieldrin | 1.3 | JP |
| 72-55-9 | 4,4'-DDE | 0.60 | J |
| 72-20-8 | Endrin | 4.7 | U |
| 33213-65-9 | Endosulfan II | 4.7 | U |
| 72-54-8 | 4,4'-DDD | 4.7 | U |
| 1031-07-8 | Endosulfan sulfate | 4.7 | U |
| 50-29-3 | 4,4'-DDT | 4.7 | U |
| 72-43-5 | Methoxychlor | 3.3 | JP |
| 53494-70-5 | Endrin ketone | 4.7 | U |
| 7421-93-4 | Endrin aldehyde | 4.7 | U |
| 5103-71-9 | cis-Chlordane | 0.45 | JP |
| 5103-74-2 | trans-Chlordane | 0.69 | JP |
| 8001-35-2 | Toxaphene | 240 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-018
 Lab File ID: 036F3701
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|--------------------|-----------------|
| 319-84-6 | alpha-BHC | 0.26 | JP |
| 319-85-7 | beta-BHC | 2.1 1.1 | JP U |
| 319-86-8 | delta-BHC | 1.9 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 2.9 | P |
| 76-44-8 | Heptachlor | 4.4 | |
| 309-00-2 | Aldrin | 0.35 | JP |
| 1024-57-3 | Heptachlor epoxide | 2.1 | P |
| 959-98-8 | Endosulfan I | 1.2 | JP |
| 60-57-1 | Dieldrin | 1.1 | JP |
| 72-55-9 | 4,4'-DDE | 0.58 | JP |
| 72-20-8 | Endrin | 0.50 | JP |
| 33213-65-9 | Endosulfan II | 4.0 | U |
| 72-54-8 | 4,4'-DDD | 0.96 | JP |
| 1031-07-8 | Endosulfan sulfate | 4.9 | P |
| 50-29-3 | 4,4'-DDT | 8.3 | P |
| 72-43-5 | Methoxychlor | 130 | P |
| 53494-70-5 | Endrin ketone | 16 | P |
| 7421-93-4 | Endrin aldehyde | 1.4 | JP |
| 5103-71-9 | cis-Chlordane | 3.6 | P |
| 5103-74-2 | trans-Chlordane | 16 | P |
| 8001-35-2 | Toxaphene | 210 | U |

ack
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ1RE

*Not Used
 acct
 1-30-19*

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-018
 Lab File ID: 017F1701
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/02/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|--------------------------------|---------------|
| 319-84-6 | alpha-BHC | 2.1 | U |
| 319-85-7 | beta-BHC | 2.1 0.82 | JP |
| 319-86-8 | delta-BHC | 0.36 | JP |
| 58-89-9 | gamma-BHC (Lindane) | 7.1 | P |
| 76-44-8 | Heptachlor | 1.7 | JP |
| 309-00-2 | Aldrin | 0.77 | J |
| 1024-57-3 | Heptachlor epoxide | 0.75 | JP |
| 959-98-8 | Endosulfan I | 0.57 | JP |
| 60-57-1 | Dieldrin | 5.2 | P |
| 72-55-9 | 4,4'-DDE | 36 | |
| 72-20-8 | Endrin | 0.54 | J |
| 33213-65-9 | Endosulfan II | 4.0 | U |
| 72-54-8 | 4,4'-DDD | 2.9 | JP |
| 1031-07-8 | Endosulfan sulfate | 1.6 | JP |
| 50-29-3 | 4,4'-DDT | 45 | |
| 72-43-5 | Methoxychlor | 96 | |
| 53494-70-5 | Endrin ketone | 22 | P |
| 7421-93-4 | Endrin aldehyde | 0.93 | JP |
| 5103-71-9 | cis-Chlordane | 2.1 | U |
| 5103-74-2 | trans-Chlordane | 0.45 | JP |
| 8001-35-2 | Toxaphene | 210 | U |

*acct
 12-11-18*

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 82.9
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-019
 Lab File ID: 020F2001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/07/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|-----------------|
| 319-84-6 | alpha-BHC | 0.48 | JP |
| 319-85-7 | beta-BHC | 2.0 0.80 | JP U |
| 319-86-8 | delta-BHC | 2.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U |
| 76-44-8 | Heptachlor | 2.5 | P |
| 309-00-2 | Aldrin | 0.52 | JP |
| 1024-57-3 | Heptachlor epoxide | 0.95 | JP |
| 959-98-8 | Endosulfan I | 1.0 | JP |
| 60-57-1 | Dieldrin | 0.48 | JP |
| 72-55-9 | 4,4'-DDE | 3.9 | U |
| 72-20-8 | Endrin | 1.5 | JP |
| 33213-65-9 | Endosulfan II | 12 | P |
| 72-54-8 | 4,4'-DDD | 3.9 | U |
| 1031-07-8 | Endosulfan sulfate | 0.68 | JP |
| 50-29-3 | 4,4'-DDT | 3.9 | U |
| 72-43-5 | Methoxychlor | 560 | E |
| 53494-70-5 | Endrin ketone | 120 | E |
| 7421-93-4 | Endrin aldehyde | 1.1 | JP |
| 5103-71-9 | cis-Chlordane | 2.8 | P |
| 5103-74-2 | trans-Chlordane | 2.0 | U |
| 8001-35-2 | Toxaphene | 200 | U |

act
 12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ2DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 82.9
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-019
 Lab File ID: 020F2001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/09/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 10.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|------|
| 319-84-6 | alpha-BHC | 20 | U |
| 319-85-7 | beta-BHC | 20 | U |
| 319-86-8 | delta-BHC | 20 | U |
| 58-89-9 | gamma-BHC (Lindane) | 20 | U |
| 76-44-8 | Heptachlor | 20 | U |
| 309-00-2 | Aldrin | 20 | U |
| 1024-57-3 | Heptachlor epoxide | 2.8 | J D |
| 959-98-8 | Endosulfan I | 20 | U |
| 60-57-1 | Dieldrin | 3.9 | J DP |
| 72-55-9 | 4,4'-DDE | 39 | U |
| 72-20-8 | Endrin | 3.8 | J DP |
| 33213-65-9 | Endosulfan II | 39 | U |
| 72-54-8 | 4,4'-DDD | 39 | U |
| 1031-07-8 | Endosulfan sulfate | 39 | U |
| 50-29-3 | 4,4'-DDT | 39 | U |
| 72-43-5 | Methoxychlor | 440 | D |
| 53494-70-5 | Endrin ketone | 100 | D |
| 7421-93-4 | Endrin aldehyde | 8.2 | J D |
| 5103-71-9 | cis-Chlordane | 2.8 | J DP |
| 5103-74-2 | trans-Chlordane | 20 | U |
| 8001-35-2 | Toxaphene | 2000 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: PEST Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-020
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: 021F2101
 % Solids: 81.4 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 11/09/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 5000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 5.0
 Cleanup Types: GPC, Florisil Cleanup Factor: 2,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|------|
| 319-84-6 | alpha-BHC | 10 | U |
| 319-85-7 | beta-BHC | 10 | U |
| 319-86-8 | delta-BHC | 1.4 | J DP |
| 58-89-9 | gamma-BHC (Lindane) | 10 | U |
| 76-44-8 | Heptachlor | 8.9 | J D |
| 309-00-2 | Aldrin | 1.8 | J DP |
| 1024-57-3 | Heptachlor epoxide | 4.8 | J DP |
| 959-98-8 | Endosulfan I | 8.1 | J DP |
| 60-57-1 | Dieldrin | 1.7 | J DP |
| 72-55-9 | 4,4'-DDE | 4.2 | J DP |
| 72-20-8 | Endrin | 8.1 | J D |
| 33213-65-9 | Endosulfan II | 42 | DP |
| 72-54-8 | 4,4'-DDD | 2.6 | J DP |
| 1031-07-8 | Endosulfan sulfate | 2.3 | J DP |
| 50-29-3 | 4,4'-DDT | 20 | U |
| 72-43-5 | Methoxychlor | 3100 | E D |
| 53494-70-5 | Endrin ketone | 350 | E DP |
| 7421-93-4 | Endrin aldehyde | 4.2 | J DP |
| 5103-71-9 | cis-Chlordane | 1.6 | J DP |
| 5103-74-2 | trans-Chlordane | 1.4 | J DP |
| 8001-35-2 | Toxaphene | 1000 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3DL

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) 9
 % Solids: 81.4
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-020
 Lab File ID: 022F2201
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 11/09/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 50.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|------|
| 319-84-6 | alpha-BHC | 100 | U |
| 319-85-7 | beta-BHC | 100 | U |
| 319-86-8 | delta-BHC | 100 | U |
| 58-89-9 | gamma-BHC (Lindane) | 100 | U |
| 76-44-8 | Heptachlor | 100 | U |
| 309-00-2 | Aldrin | 100 | U |
| 1024-57-3 | Heptachlor epoxide | 100 | U |
| 959-98-8 | Endosulfan I | 17 | J DP |
| 60-57-1 | Dieldrin | 31 | J DP |
| 72-55-9 | 4,4'-DDE | 200 | U |
| 72-20-8 | Endrin | 200 | U |
| 33213-65-9 | Endosulfan II | 200 | U |
| 72-54-8 | 4,4'-DDD | 200 | U |
| 1031-07-8 | Endosulfan sulfate | 40 | J DP |
| 50-29-3 | 4,4'-DDT | 190 | J DP |
| 72-43-5 | Methoxychlor | 2800 | D |
| 53494-70-5 | Endrin ketone | 280 | DP |
| 7421-93-4 | Endrin aldehyde | 200 | U |
| 5103-71-9 | cis-Chlordane | 100 | U |
| 5103-74-2 | trans-Chlordane | 20 | J DP |
| 8001-35-2 | Toxaphene | 10000 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

PBLK72

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TQ87772-001
 Lab File ID: 016F1701
 Date Received: _____
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------|----|
| 319-84-6 | alpha-BHC | 1.7 | U |
| 319-85-7 | beta-BHC | 0.76 | JP |
| 319-86-8 | delta-BHC | 1.7 | U |
| 58-89-9 | gamma-BHC (Lindane) | 1.7 | U |
| 76-44-8 | Heptachlor | 1.7 | U |
| 309-00-2 | Aldrin | 1.7 | U |
| 1024-57-3 | Heptachlor epoxide | 1.7 | U |
| 959-98-8 | Endosulfan I | 1.7 | U |
| 60-57-1 | Dieldrin | 3.3 | U |
| 72-55-9 | 4,4'-DDE | 3.3 | U |
| 72-20-8 | Endrin | 3.3 | U |
| 33213-65-9 | Endosulfan II | 3.3 | U |
| 72-54-8 | 4,4'-DDD | 3.3 | U |
| 1031-07-8 | Endosulfan sulfate | 3.3 | U |
| 50-29-3 | 4,4'-DDT | 3.3 | U |
| 72-43-5 | Methoxychlor | 17 | U |
| 53494-70-5 | Endrin ketone | 3.3 | U |
| 7421-93-4 | Endrin aldehyde | 3.3 | U |
| 5103-71-9 | cis-Chlordane | 1.7 | U |
| 5103-74-2 | trans-Chlordane | 1.7 | U |
| 8001-35-2 | Toxaphene | 170 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

PLCS72(1)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TQ87772-002
 Lab File ID: 017F1801
 Date Received: _____
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2.1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|-------------------------------|-----------------------------|
| 319-84-6 | alpha-BHC | 1.7 | U |
| 319-85-7 | beta-BHC | 1.7 1.2 | U JBU |
| 319-86-8 | delta-BHC | 1.7 | U |
| 58-89-9 | gamma-BHC (Lindane) | 1.2 | J |
| 76-44-8 | Heptachlor | 1.7 | U |
| 309-00-2 | Aldrin | 1.7 | U |
| 1024-57-3 | Heptachlor epoxide | 1.3 | J |
| 959-98-8 | Endosulfan I | 1.7 | U |
| 60-57-1 | Dieldrin | 2.6 | J |
| 72-55-9 | 4,4'-DDE | 2.5 | J |
| 72-20-8 | Endrin | 2.6 | J |
| 33213-65-9 | Endosulfan II | 3.3 | U |
| 72-54-8 | 4,4'-DDD | 3.3 | U |
| 1031-07-8 | Endosulfan sulfate | 2.2 | J |
| 50-29-3 | 4,4'-DDT | 3.3 | U |
| 72-43-5 | Methoxychlor | 17 | U |
| 53494-70-5 | Endrin ketone | 3.3 | U |
| 7421-93-4 | Endrin aldehyde | 3.3 | U |
| 5103-71-9 | cis-Chlordane | 1.7 | U |
| 5103-74-2 | trans-Chlordane | 1.2 | J |
| 8001-35-2 | Toxaphene | 170 | U |

act
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

PLCS72(2)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: PEST
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: GPC, Florisil
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TQ87772-002
 Lab File ID: 017F1801
 Date Received: _____
 Date Extracted: 10/26/2018
 Date Analyzed: 10/31/2018
 Extract Volume: 5000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 2,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|---------------------|---------------------|------|
| 319-84-6 | alpha-BHC | 0.17 | J |
| 319-85-7 | beta-BHC | 1.7 0.80 | JPBU |
| 319-86-8 | delta-BHC | 1.7 | U |
| 58-89-9 | gamma-BHC (Lindane) | 1.3 | J |
| 76-44-8 | Heptachlor | 1.7 | U |
| 309-00-2 | Aldrin | 1.7 | U |
| 1024-57-3 | Heptachlor epoxide | 1.6 | J |
| 959-98-8 | Endosulfan I | 1.7 | U |
| 60-57-1 | Dieldrin | 2.7 | J |
| 72-55-9 | 4,4'-DDE | 2.7 | J |
| 72-20-8 | Endrin | 2.9 | J |
| 33213-65-9 | Endosulfan II | 3.3 | U |
| 72-54-8 | 4,4'-DDD | 3.3 | U |
| 1031-07-8 | Endosulfan sulfate | 1.9 | J |
| 50-29-3 | 4,4'-DDT | 3.3 | U |
| 72-43-5 | Methoxychlor | 17 | U |
| 53494-70-5 | Endrin ketone | 3.3 | U |
| 7421-93-4 | Endrin aldehyde | 3.3 | U |
| 5103-71-9 | cis-Chlordane | 1.7 | U |
| 5103-74-2 | trans-Chlordane | 1.4 | J |
| 8001-35-2 | Toxaphene | 170 | U |

act
12-11-18

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ABLK73

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) 9
 % Solids: 100
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TQ87773-001
 Lab File ID: 007F0701
 Date Received: _____
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS73(1)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 100
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TQ87773-002
 Lab File ID: 008F0801
 Date Received: _____
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 31 | J |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

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EPA SAMPLE NO.

ALCS73(2)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: ARO Level: _____
 Matrix: Soil Lab Sample ID: TQ87773-002
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 008F0801
 % Solids: 100 Date Received: _____
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 10/30/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 10000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: Sulfuric_Acid,Sulfur Cleanup Factor: 1,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 29 | J |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 28 | J |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

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EPA SAMPLE NO.

ESNP2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 25.4
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-009
 Lab File ID: 009F0901
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 130 | U |
| 11104-28-2 | Aroclor-1221 | 130 | U |
| 11141-16-5 | Aroclor-1232 | 130 | U |
| 53469-21-9 | Aroclor-1242 | 44 | J |
| 12672-29-6 | Aroclor-1248 | 130 | U |
| 11097-69-1 | Aroclor-1254 | 130 | U |
| 11096-82-5 | Aroclor-1260 | 130 | U |
| 37324-23-5 | Aroclor-1262 | 130 | U |
| 11100-14-4 | Aroclor-1268 | 130 | U |

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EPA SAMPLE NO.

ESNP3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 38.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-010
 Lab File ID: 010F1001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 85 | U |
| 11104-28-2 | Aroclor-1221 | 85 | U |
| 11141-16-5 | Aroclor-1232 | 85 | U |
| 53469-21-9 | Aroclor-1242 | 20 | JP |
| 12672-29-6 | Aroclor-1248 | 85 | U |
| 11097-69-1 | Aroclor-1254 | 85 | U |
| 11096-82-5 | Aroclor-1260 | 85 | U |
| 37324-23-5 | Aroclor-1262 | 85 | U |
| 11100-14-4 | Aroclor-1268 | 85 | U |

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EPA SAMPLE NO.

ESNP4

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.1 (g/mL) g
 % Solids: 42.4
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-011
 Lab File ID: 011F1101
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 78 | U |
| 11104-28-2 | Aroclor-1221 | 78 | U |
| 11141-16-5 | Aroclor-1232 | 78 | U |
| 53469-21-9 | Aroclor-1242 | 49 | J |
| 12672-29-6 | Aroclor-1248 | 78 | U |
| 11097-69-1 | Aroclor-1254 | 78 | U |
| 11096-82-5 | Aroclor-1260 | 49 | JP |
| 37324-23-5 | Aroclor-1262 | 78 | U |
| 11100-14-4 | Aroclor-1268 | 78 | U |

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LAB SAMPLE NO.
 ESNP5

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: ARO Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-012
 Sample wt/vol: 30.3 (g/mL) 9 Lab File ID: 012F1201
 % Solids: 67.0 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 10/30/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 10000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: Sulfuric_Acid,Sulfur Cleanup Factor: 1,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 49 | U |
| 11104-28-2 | Aroclor-1221 | 49 | U |
| 11141-16-5 | Aroclor-1232 | 49 | U |
| 53469-21-9 | Aroclor-1242 | 9.1 | JP |
| 12672-29-6 | Aroclor-1248 | 49 | U |
| 11097-69-1 | Aroclor-1254 | 49 | U |
| 11096-82-5 | Aroclor-1260 | 29 | JP |
| 37324-23-5 | Aroclor-1262 | 49 | U |
| 11100-14-4 | Aroclor-1268 | 49 | U |

ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

ESNP6

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.8 (g/mL) 9
 % Solids: 51.5
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-013
 Lab File ID: 013F1301
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 62 | U |
| 11104-28-2 | Aroclor-1221 | 62 | U |
| 11141-16-5 | Aroclor-1232 | 62 | U |
| 53469-21-9 | Aroclor-1242 | 62 | U |
| 12672-29-6 | Aroclor-1248 | 62 | U |
| 11097-69-1 | Aroclor-1254 | 62 | U |
| 11096-82-5 | Aroclor-1260 | 15 | JP |
| 37324-23-5 | Aroclor-1262 | 62 | U |
| 11100-14-4 | Aroclor-1268 | 62 | U |

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EPA SAMPLE NO.

ESNP7

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014
 Lab File ID: 014F1401
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 45 | U |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 12 | JP |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 31 | JP |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

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EPA SAMPLE NO.

ESNP7MS(1)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid, Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MS
 Lab File ID: 015F1501
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 110 | |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 110 | P |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 130 | |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

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EPA SAMPLE NO.

ESNP7MS(2)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MS
 Lab File ID: 015F1501
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 91 | |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 720 | P |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 100 | |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

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EPA SAMPLE NO.

ESNP7MSD(1)

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: ARO Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-014MD
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 016F1601
 % Solids: 72.6 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 10/30/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 10000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: Sulfuric Acid,Sulfur Cleanup Factor: 1,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 110 | |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 110 | P |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 130 | |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

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EPA SAMPLE NO.

ESNP7MSD(2)

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.0 (g/mL) g
 % Solids: 72.6
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-014MD
 Lab File ID: 016F1601
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 89 | |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 210 | P |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 100 | |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

ESNP8

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.4 (g/mL) g
 % Solids: 70.2
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-015
 Lab File ID: 017F1701
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 46 | U |
| 11104-28-2 | Aroclor-1221 | 46 | U |
| 11141-16-5 | Aroclor-1232 | 46 | U |
| 53469-21-9 | Aroclor-1242 | 9.8 | JP |
| 12672-29-6 | Aroclor-1248 | 46 | U |
| 11097-69-1 | Aroclor-1254 | 46 | U |
| 11096-82-5 | Aroclor-1260 | 18 | JP |
| 37324-23-5 | Aroclor-1262 | 46 | U |
| 11100-14-4 | Aroclor-1268 | 46 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNP9

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
 Lab Code: EQI Case No.: 47927 MA No.: _____ SDG No.: ESNP2
 Analytical Method: ARO Level: _____
 Matrix: Soil Lab Sample ID: TJ23060-016
 Sample wt/vol: 30.7 (g/mL) g Lab File ID: 018F1801
 % Solids: 77.6 Date Received: 10/24/2018
 GC Column: DB-35MS ID: 0.32 (mm) Date Extracted: 10/26/2018
 GC Column: DB-XLB ID: 0.32 (mm) Date Analyzed: 10/30/2018
 Extract Concentrated: (Y/N) Y Extract Volume: 10000 (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: SONC
 Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)
 Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0
 Cleanup Types: Sulfuric_Acid,Sulfur Cleanup Factor: 1,1
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 42 | U |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

ESNQ0

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample Wt/vol: 30.9 (g/mL) g
 % Solids: 67.7
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): ug/kg

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-017
 Lab File ID: 019F1901
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 47 | U |
| 11104-28-2 | Aroclor-1221 | 47 | U |
| 11141-16-5 | Aroclor-1232 | 47 | U |
| 53469-21-9 | Aroclor-1242 | 8.9 | JP |
| 12672-29-6 | Aroclor-1248 | 47 | U |
| 11097-69-1 | Aroclor-1254 | 47 | U |
| 11096-82-5 | Aroclor-1260 | 27 | JP |
| 37324-23-5 | Aroclor-1262 | 47 | U |
| 11100-14-4 | Aroclor-1268 | 47 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

LAB SAMPLE NO.
 ESNQ1

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 81.1
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-018
 Lab File ID: 020F2001
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 40 | U |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

ESNQ3

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.5 (g/mL) g
 % Solids: 81.4
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-020
 Lab File ID: 022F2201
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 37 | JP |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 23 | J |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

LAB SAMPLE NO.

ESNQ2

Lab Name: Shealy Environmental Services, Inc.
 Lab Code: EQI Case No.: 47927
 Analytical Method: ARO
 Matrix: Soil
 Sample wt/vol: 30.6 (g/mL) g
 % Solids: 82.9
 GC Column: DB-35MS ID: 0.32 (mm)
 GC Column: DB-XLB ID: 0.32 (mm)
 Extract Concentrated: (Y/N) Y
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge: (Y/N) _____
 Purge Volume: _____ (mL)
 Cleanup Types: Sulfuric_Acid,Sulfur
 Concentration Units (ug/L, mg/L, ug/Kg): _____

Contract: EP-W-14035
 MA No.: _____ SDG No.: ESNP2
 Level: _____
 Lab Sample ID: TJ23060-019
 Lab File ID: 021F2101
 Date Received: 10/24/2018
 Date Extracted: 10/26/2018
 Date Analyzed: 10/30/2018
 Extract Volume: 10000 (uL)
 Extraction Type: SONC
 Injection Volume: 1.0 (uL)
 pH: _____ Dilution Factor: 1.0
 Cleanup Factor: 1,1

ug/kg

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 39 | U |
| 11104-28-2 | Aroclor-1221 | 39 | U |
| 11141-16-5 | Aroclor-1232 | 39 | U |
| 53469-21-9 | Aroclor-1242 | 27 | J |
| 12672-29-6 | Aroclor-1248 | 39 | U |
| 11097-69-1 | Aroclor-1254 | 39 | U |
| 11096-82-5 | Aroclor-1260 | 29 | JP |
| 37324-23-5 | Aroclor-1262 | 39 | U |
| 11100-14-4 | Aroclor-1268 | 39 | U |

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP2

Lab Name: Bonner Analytical Testing Co.Contract: EPW14029Lab Code: BON Case No.: 47927MA No.: _____ SDG No.: MESNP2Matrix: SoilLab Sample ID: 8100326-01% Solids: 34.6Date Received: 10/24/2018Analytical method: ICP-AESConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 11500 | | 11/09/2018 | 1127 |
| 7440-36-0 | Antimony | 1.5 | J* | 11/09/2018 | 1127 |
| 7440-38-2 | Arsenic | 12.8 | | 11/09/2018 | 1127 |
| 7440-39-3 | Barium | 107 | | 11/09/2018 | 1127 |
| 7440-41-7 | Beryllium | 0.69 | J | 11/09/2018 | 1127 |
| 7440-43-9 | Cadmium | 2.3 | | 11/09/2018 | 1127 |
| 7440-70-2 | Calcium | 65500 | * | 11/09/2018 | 1127 |
| 7440-47-3 | Chromium | 28.7 | | 11/09/2018 | 1127 |
| 7440-48-4 | Cobalt | 9.7 | J | 11/09/2018 | 1127 |
| 7440-50-8 | Copper | 39.5 | | 11/09/2018 | 1127 |
| 7439-89-6 | Iron | 27800 | | 11/09/2018 | 1127 |
| 7439-92-1 | Lead | 71.8 | | 11/09/2018 | 1127 |
| 7439-95-4 | Magnesium | 16600 | * | 11/09/2018 | 1127 |
| 7439-96-5 | Manganese | 677 | * | 11/09/2018 | 1127 |
| 7440-02-0 | Nickel | 27.2 | | 11/09/2018 | 1127 |
| 7440-09-7 | Potassium | 3710 | | 11/09/2018 | 1127 |
| 7782-49-2 | Selenium | 0.73 | J | 11/09/2018 | 1127 |
| 7440-22-4 | Silver | 0.64 | J | 11/09/2018 | 1127 |
| 7440-23-5 | Sodium | 1100 | | 11/09/2018 | 1127 |
| 7440-28-0 | Thallium | 5.0 | U | 11/09/2018 | 1127 |
| 7440-62-2 | Vanadium | 28.5 | | 11/09/2018 | 1127 |
| 7440-66-6 | Zinc | 294 | | 11/09/2018 | 1127 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MESNP3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-02
 % Solids: 33.6 Date Received: 10/24/2018
 Analytical method: ICP-AES

Concentration Units (µg/L, mg/L, mg/kg dry weight or µg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 6480 | | 11/09/2018 | 1132 |
| 7440-36-0 | Antimony | 1.4 | J* | 11/09/2018 | 1132 |
| 7440-38-2 | Arsenic | 5.7 | | 11/09/2018 | 1132 |
| 7440-39-3 | Barium | 71.1 | | 11/09/2018 | 1132 |
| 7440-41-7 | Beryllium | 0.45 | J | 11/09/2018 | 1132 |
| 7440-43-9 | Cadmium | 2.2 | | 11/09/2018 | 1132 |
| 7440-70-2 | Calcium | 76100 | * | 11/09/2018 | 1132 |
| 7440-47-3 | Chromium | 24.3 | | 11/09/2018 | 1132 |
| 7440-48-4 | Cobalt | 6.9 | J | 11/09/2018 | 1132 |
| 7440-50-8 | Copper | 29.2 | | 11/09/2018 | 1132 |
| 7439-89-6 | Iron | 21200 | | 11/09/2018 | 1132 |
| 7439-92-1 | Lead | 73.3 | | 11/09/2018 | 1132 |
| 7439-95-4 | Magnesium | 22000 | * | 11/09/2018 | 1132 |
| 7439-96-5 | Manganese | 811 | * | 11/09/2018 | 1132 |
| 7440-02-0 | Nickel | 18.0 | | 11/09/2018 | 1132 |
| 7440-09-7 | Potassium | 1730 | | 11/09/2018 | 1132 |
| 7782-49-2 | Selenium | 1.6 | J | 11/09/2018 | 1132 |
| 7440-22-4 | Silver | 0.33 | J | 11/09/2018 | 1132 |
| 7440-23-5 | Sodium | 563 | J | 11/09/2018 | 1132 |
| 7440-28-0 | Thallium | 7.2 | U | 11/09/2018 | 1132 |
| 7440-62-2 | Vanadium | 20.9 | | 11/09/2018 | 1132 |
| 7440-66-6 | Zinc | 320 | | 11/09/2018 | 1132 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM I-IN
INORGANIC ANALYSIS DATA SHEET

MESNP4

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-03

% Solids: 48.5

Date Received: 10/24/2018

Analytical method: ICP-AES

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 8750 | | 11/09/2018 | 1136 |
| 7440-36-0 | Antimony | 2.5 | J* | 11/09/2018 | 1136 |
| 7440-38-2 | Arsenic | 14.5 | | 11/09/2018 | 1136 |
| 7440-39-3 | Barium | 179 | | 11/09/2018 | 1136 |
| 7440-41-7 | Beryllium | 1.3 | | 11/09/2018 | 1136 |
| 7440-43-9 | Cadmium | 4.9 | | 11/09/2018 | 1136 |
| 7440-70-2 | Calcium | 38500 | * | 11/09/2018 | 1136 |
| 7440-47-3 | Chromium | 101 | | 11/09/2018 | 1136 |
| 7440-48-4 | Cobalt | 9.4 | | 11/09/2018 | 1136 |
| 7440-50-8 | Copper | 52.2 | | 11/09/2018 | 1136 |
| 7439-89-6 | Iron | 66100 | D | 11/09/2018 | 1239 |
| 7439-92-1 | Lead | 180 | | 11/09/2018 | 1136 |
| 7439-95-4 | Magnesium | 7780 | * | 11/09/2018 | 1136 |
| 7439-96-5 | Manganese | 2980 | * | 11/09/2018 | 1136 |
| 7440-02-0 | Nickel | 22.4 | | 11/09/2018 | 1136 |
| 7440-09-7 | Potassium | 987 | | 11/09/2018 | 1136 |
| 7782-49-2 | Selenium | 2.4 | J | 11/09/2018 | 1136 |
| 7440-22-4 | Silver | 0.90 | J | 11/09/2018 | 1136 |
| 7440-23-5 | Sodium | 487 | J | 11/09/2018 | 1136 |
| 7440-28-0 | Thallium | 4.5 | U | 11/09/2018 | 1136 |
| 7440-62-2 | Vanadium | 57.1 | | 11/09/2018 | 1136 |
| 7440-66-6 | Zinc | 1010 | | 11/09/2018 | 1136 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MESNP5

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-04
 % Solids: 65.3 Date Received: 10/24/2018
 Analytical method: ICP-AES
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 7030 | | 11/09/2018 | 1140 |
| 7440-36-0 | Antimony | 1.2 | J* | 11/09/2018 | 1140 |
| 7440-38-2 | Arsenic | 12.7 | | 11/09/2018 | 1140 |
| 7440-39-3 | Barium | 179 | | 11/09/2018 | 1140 |
| 7440-41-7 | Beryllium | 1.5 | | 11/09/2018 | 1140 |
| 7440-43-9 | Cadmium | 2.1 | | 11/09/2018 | 1140 |
| 7440-70-2 | Calcium | 23200 | * | 11/09/2018 | 1140 |
| 7440-47-3 | Chromium | 47.0 | | 11/09/2018 | 1140 |
| 7440-48-4 | Cobalt | 4.4 | J | 11/09/2018 | 1140 |
| 7440-50-8 | Copper | 50.1 | | 11/09/2018 | 1140 |
| 7439-89-6 | Iron | 22600 | | 11/09/2018 | 1140 |
| 7439-92-1 | Lead | 126 | | 11/09/2018 | 1140 |
| 7439-95-4 | Magnesium | 3510 | * | 11/09/2018 | 1140 |
| 7439-96-5 | Manganese | 2310 | * | 11/09/2018 | 1140 |
| 7440-02-0 | Nickel | 14.2 | | 11/09/2018 | 1140 |
| 7440-09-7 | Potassium | 589 | J | 11/09/2018 | 1140 |
| 7782-49-2 | Selenium | 2.9 | J | 11/09/2018 | 1140 |
| 7440-22-4 | Silver | 0.44 | J | 11/09/2018 | 1140 |
| 7440-23-5 | Sodium | 271 | J | 11/09/2018 | 1140 |
| 7440-28-0 | Thallium | 3.8 | U | 11/09/2018 | 1140 |
| 7440-62-2 | Vanadium | 25.1 | | 11/09/2018 | 1140 |
| 7440-66-6 | Zinc | 524 | | 11/09/2018 | 1140 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| MESNP6 |
|--------|

Lab Name: Bonner Analytical Testing Co.Contract: EPW14029Lab Code: BON Case No.: 47927MA No.: _____ SDG No.: MESNP2Matrix: SoilLab Sample ID: 8100326-05% Solids: 42.8Date Received: 10/24/2018Analytical method: ICP-AESConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 3150 | | 11/09/2018 | 1157 |
| 7440-36-0 | Antimony | 4.3 | J* | 11/09/2018 | 1157 |
| 7440-38-2 | Arsenic | 26.8 | | 11/09/2018 | 1157 |
| 7440-39-3 | Barium | 115 | | 11/09/2018 | 1157 |
| 7440-41-7 | Beryllium | 0.56 | J | 11/09/2018 | 1157 |
| 7440-43-9 | Cadmium | 4.0 | | 11/09/2018 | 1157 |
| 7440-70-2 | Calcium | 36400 | * | 11/09/2018 | 1157 |
| 7440-47-3 | Chromium | 39.7 | | 11/09/2018 | 1157 |
| 7440-48-4 | Cobalt | 9.6 | | 11/09/2018 | 1157 |
| 7440-50-8 | Copper | 79.5 | | 11/09/2018 | 1157 |
| 7439-89-6 | Iron | 57200 | | 11/09/2018 | 1157 |
| 7439-92-1 | Lead | 123 | | 11/09/2018 | 1157 |
| 7439-95-4 | Magnesium | 13300 | * | 11/09/2018 | 1157 |
| 7439-96-5 | Manganese | 1190 | * | 11/09/2018 | 1157 |
| 7440-02-0 | Nickel | 22.8 | | 11/09/2018 | 1157 |
| 7440-09-7 | Potassium | 754 | J | 11/09/2018 | 1157 |
| 7782-49-2 | Selenium | 2.3 | J | 11/09/2018 | 1157 |
| 7440-22-4 | Silver | 0.82 | J | 11/09/2018 | 1157 |
| 7440-23-5 | Sodium | 242 | J | 11/09/2018 | 1157 |
| 7440-28-0 | Thallium | 4.6 | U | 11/09/2018 | 1157 |
| 7440-62-2 | Vanadium | 19.9 | | 11/09/2018 | 1157 |
| 7440-66-6 | Zinc | 462 | | 11/09/2018 | 1157 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MESNP7

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-06
 % Solids: 76.1 Date Received: 10/24/2018
 Analytical method: ICP-AES
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 2320 | | 11/09/2018 | 1243 |
| 7440-36-0 | Antimony | 1.7 | J* | 11/09/2018 | 1243 |
| 7440-38-2 | Arsenic | 8.7 | | 11/09/2018 | 1243 |
| 7440-39-3 | Barium | 84.0 | | 11/09/2018 | 1243 |
| 7440-41-7 | Beryllium | 0.98 | | 11/09/2018 | 1243 |
| 7440-43-9 | Cadmium | 2.8 | | 11/09/2018 | 1243 |
| 7440-70-2 | Calcium | 9540 | * | 11/09/2018 | 1243 |
| 7440-47-3 | Chromium | 21.9 | | 11/09/2018 | 1243 |
| 7440-48-4 | Cobalt | 4.7 | J | 11/09/2018 | 1243 |
| 7440-50-8 | Copper | 84.0 | | 11/09/2018 | 1243 |
| 7439-89-6 | Iron | 23100 | | 11/09/2018 | 1243 |
| 7439-92-1 | Lead | 125 | | 11/09/2018 | 1243 |
| 7439-95-4 | Magnesium | 3400 | * | 11/09/2018 | 1243 |
| 7439-96-5 | Manganese | 581 | * | 11/09/2018 | 1243 |
| 7440-02-0 | Nickel | 20.1 | | 11/09/2018 | 1243 |
| 7440-09-7 | Potassium | 441 | J | 11/09/2018 | 1243 |
| 7782-49-2 | Selenium | 1.9 | J | 11/09/2018 | 1243 |
| 7440-22-4 | Silver | 0.46 | J | 11/09/2018 | 1243 |
| 7440-23-5 | Sodium | 97.3 | J | 11/09/2018 | 1243 |
| 7440-28-0 | Thallium | 3.1 | U | 11/09/2018 | 1243 |
| 7440-62-2 | Vanadium | 24.9 | | 11/09/2018 | 1243 |
| 7440-66-6 | Zinc | 551 | | 11/09/2018 | 1243 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP8

Lab Name: Bonner Analytical Testing Co.Contract: EPW14029Lab Code: BON Case No.: 47927MA No.: _____ SDG No.: MESNP2Matrix: SoilLab Sample ID: 8100326-07% Solids: 70.8Date Received: 10/24/2018Analytical method: ICP-AESConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 4060 | | 11/09/2018 | 1205 |
| 7440-36-0 | Antimony | 4.1 | J* | 11/09/2018 | 1205 |
| 7440-38-2 | Arsenic | 15.6 | | 11/09/2018 | 1205 |
| 7440-39-3 | Barium | 106 | | 11/09/2018 | 1205 |
| 7440-41-7 | Beryllium | 1.1 | | 11/09/2018 | 1205 |
| 7440-43-9 | Cadmium | 5.9 | | 11/09/2018 | 1205 |
| 7440-70-2 | Calcium | 8190 | * | 11/09/2018 | 1205 |
| 7440-47-3 | Chromium | 35.7 | | 11/09/2018 | 1205 |
| 7440-48-4 | Cobalt | 6.3 | | 11/09/2018 | 1205 |
| 7440-50-8 | Copper | 60.5 | | 11/09/2018 | 1205 |
| 7439-89-6 | Iron | 71600 | D | 11/09/2018 | 1235 |
| 7439-92-1 | Lead | 236 | | 11/09/2018 | 1205 |
| 7439-95-4 | Magnesium | 2550 | * | 11/09/2018 | 1205 |
| 7439-96-5 | Manganese | 984 | * | 11/09/2018 | 1205 |
| 7440-02-0 | Nickel | 22.8 | | 11/09/2018 | 1205 |
| 7440-09-7 | Potassium | 581 | J | 11/09/2018 | 1205 |
| 7782-49-2 | Selenium | 0.48 | J | 11/09/2018 | 1205 |
| 7440-22-4 | Silver | 0.98 | J | 11/09/2018 | 1205 |
| 7440-23-5 | Sodium | 184 | J | 11/09/2018 | 1205 |
| 7440-28-0 | Thallium | 3.1 | U | 11/09/2018 | 1205 |
| 7440-62-2 | Vanadium | 22.9 | | 11/09/2018 | 1205 |
| 7440-66-6 | Zinc | 916 | | 11/09/2018 | 1205 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP9

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-08
 % Solids: 79.5 Date Received: 10/24/2018
 Analytical method: ICP-AES
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 3980 | | 11/09/2018 | 1210 |
| 7440-36-0 | Antimony | 2.2 | J* | 11/09/2018 | 1210 |
| 7440-38-2 | Arsenic | 8.3 | | 11/09/2018 | 1210 |
| 7440-39-3 | Barium | 90.4 | | 11/09/2018 | 1210 |
| 7440-41-7 | Beryllium | 0.59 | | 11/09/2018 | 1210 |
| 7440-43-9 | Cadmium | 3.2 | | 11/09/2018 | 1210 |
| 7440-70-2 | Calcium | 12600 | * | 11/09/2018 | 1210 |
| 7440-47-3 | Chromium | 15.3 | | 11/09/2018 | 1210 |
| 7440-48-4 | Cobalt | 4.5 | J | 11/09/2018 | 1210 |
| 7440-50-8 | Copper | 94.0 | | 11/09/2018 | 1210 |
| 7439-89-6 | Iron | 43700 | D | 11/09/2018 | 1248 |
| 7439-92-1 | Lead | 102 | | 11/09/2018 | 1210 |
| 7439-95-4 | Magnesium | 3990 | * | 11/09/2018 | 1210 |
| 7439-96-5 | Manganese | 538 | * | 11/09/2018 | 1210 |
| 7440-02-0 | Nickel | 15.0 | | 11/09/2018 | 1210 |
| 7440-09-7 | Potassium | 439 | J | 11/09/2018 | 1210 |
| 7782-49-2 | Selenium | 0.39 | J | 11/09/2018 | 1210 |
| 7440-22-4 | Silver | 0.53 | J | 11/09/2018 | 1210 |
| 7440-23-5 | Sodium | 93.7 | J | 11/09/2018 | 1210 |
| 7440-28-0 | Thallium | 2.8 | U | 11/09/2018 | 1210 |
| 7440-62-2 | Vanadium | 18.6 | | 11/09/2018 | 1210 |
| 7440-66-6 | Zinc | 251 | | 11/09/2018 | 1210 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

| |
|--------|
| MESN00 |
|--------|

Lab Name: Bonner Analytical Testing Co.Contract: EPW14029Lab Code: BON Case No.: 47927MA No.: _____ SDG No.: MESNP2Matrix: SoilLab Sample ID: 8100326-09% Solids: 66.9Date Received: 10/24/2018Analytical method: ICP-AESConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 6470 | | 11/09/2018 | 1214 |
| 7440-36-0 | Antimony | 1.1 | J* | 11/09/2018 | 1214 |
| 7440-38-2 | Arsenic | 6.6 | | 11/09/2018 | 1214 |
| 7440-39-3 | Barium | 83.1 | | 11/09/2018 | 1214 |
| 7440-41-7 | Beryllium | 0.76 | | 11/09/2018 | 1214 |
| 7440-43-9 | Cadmium | 1.3 | | 11/09/2018 | 1214 |
| 7440-70-2 | Calcium | 8180 | * | 11/09/2018 | 1214 |
| 7440-47-3 | Chromium | 20.7 | | 11/09/2018 | 1214 |
| 7440-48-4 | Cobalt | 3.4 | J | 11/09/2018 | 1214 |
| 7440-50-8 | Copper | 21.7 | | 11/09/2018 | 1214 |
| 7439-89-6 | Iron | 15000 | | 11/09/2018 | 1214 |
| 7439-92-1 | Lead | 52.0 | | 11/09/2018 | 1214 |
| 7439-95-4 | Magnesium | 1890 | * | 11/09/2018 | 1214 |
| 7439-96-5 | Manganese | 575 | * | 11/09/2018 | 1214 |
| 7440-02-0 | Nickel | 10.7 | | 11/09/2018 | 1214 |
| 7440-09-7 | Potassium | 634 | J | 11/09/2018 | 1214 |
| 7782-49-2 | Selenium | 1.0 | J | 11/09/2018 | 1214 |
| 7440-22-4 | Silver | 0.23 | J | 11/09/2018 | 1214 |
| 7440-23-5 | Sodium | 154 | J | 11/09/2018 | 1214 |
| 7440-28-0 | Thallium | 3.4 | U | 11/09/2018 | 1214 |
| 7440-62-2 | Vanadium | 24.3 | | 11/09/2018 | 1214 |
| 7440-66-6 | Zinc | 209 | | 11/09/2018 | 1214 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MESNQ1

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-10
 % Solids: 78.6 Date Received: 10/24/2018
 Analytical method: ICP-AES

Concentration Units (µg/L, mg/L, mg/kg dry weight or µg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 4220 | | 11/09/2018 | 1218 |
| 7440-36-0 | Antimony | 2.1 | J* | 11/09/2018 | 1218 |
| 7440-38-2 | Arsenic | 9.7 | | 11/09/2018 | 1218 |
| 7440-39-3 | Barium | 112 | | 11/09/2018 | 1218 |
| 7440-41-7 | Beryllium | 0.94 | | 11/09/2018 | 1218 |
| 7440-43-9 | Cadmium | 2.6 | | 11/09/2018 | 1218 |
| 7440-70-2 | Calcium | 14700 | * | 11/09/2018 | 1218 |
| 7440-47-3 | Chromium | 24.7 | | 11/09/2018 | 1218 |
| 7440-48-4 | Cobalt | 4.3 | J | 11/09/2018 | 1218 |
| 7440-50-8 | Copper | 73.2 | | 11/09/2018 | 1218 |
| 7439-89-6 | Iron | 33400 | | 11/09/2018 | 1218 |
| 7439-92-1 | Lead | 111 | | 11/09/2018 | 1218 |
| 7439-95-4 | Magnesium | 3520 | * | 11/09/2018 | 1218 |
| 7439-96-5 | Manganese | 1070 | * | 11/09/2018 | 1218 |
| 7440-02-0 | Nickel | 14.4 | | 11/09/2018 | 1218 |
| 7440-09-7 | Potassium | 495 | | 11/09/2018 | 1218 |
| 7782-49-2 | Selenium | 1.3 | J | 11/09/2018 | 1218 |
| 7440-22-4 | Silver | 0.49 | J | 11/09/2018 | 1218 |
| 7440-23-5 | Sodium | 229 | J | 11/09/2018 | 1218 |
| 7440-28-0 | Thallium | 2.4 | U | 11/09/2018 | 1218 |
| 7440-62-2 | Vanadium | 17.5 | | 11/09/2018 | 1218 |
| 7440-66-6 | Zinc | 373 | | 11/09/2018 | 1218 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ2

Lab Name: Bonner Analytical Testing Co.Contract: EPW14029Lab Code: BON Case No.: 47927MA No.: _____ SDG No.: MESNP2Matrix: SoilLab Sample ID: 8100326-11% Solids: 82.5Date Received: 10/24/2018Analytical method: ICP-AESConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 3200 | | 11/09/2018 | 1222 |
| 7440-36-0 | Antimony | 0.78 | J* | 11/09/2018 | 1222 |
| 7440-38-2 | Arsenic | 4.1 | | 11/09/2018 | 1222 |
| 7440-39-3 | Barium | 63.6 | | 11/09/2018 | 1222 |
| 7440-41-7 | Beryllium | 0.85 | | 11/09/2018 | 1222 |
| 7440-43-9 | Cadmium | 1.3 | | 11/09/2018 | 1222 |
| 7440-70-2 | Calcium | 10500 | * | 11/09/2018 | 1222 |
| 7440-47-3 | Chromium | 12.0 | | 11/09/2018 | 1222 |
| 7440-48-4 | Cobalt | 2.7 | J | 11/09/2018 | 1222 |
| 7440-50-8 | Copper | 27.2 | | 11/09/2018 | 1222 |
| 7439-89-6 | Iron | 10900 | | 11/09/2018 | 1222 |
| 7439-92-1 | Lead | 60.1 | | 11/09/2018 | 1222 |
| 7439-95-4 | Magnesium | 2350 | * | 11/09/2018 | 1222 |
| 7439-96-5 | Manganese | 258 | * | 11/09/2018 | 1222 |
| 7440-02-0 | Nickel | 10.5 | | 11/09/2018 | 1222 |
| 7440-09-7 | Potassium | 234 | J | 11/09/2018 | 1222 |
| 7782-49-2 | Selenium | 1.1 | J | 11/09/2018 | 1222 |
| 7440-22-4 | Silver | 0.15 | J | 11/09/2018 | 1222 |
| 7440-23-5 | Sodium | 144 | J | 11/09/2018 | 1222 |
| 7440-28-0 | Thallium | 2.8 | U | 11/09/2018 | 1222 |
| 7440-62-2 | Vanadium | 10.1 | | 11/09/2018 | 1222 |
| 7440-66-6 | Zinc | 174 | | 11/09/2018 | 1222 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MESNQ3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-12
 % Solids: 83.2 Date Received: 10/24/2018
 Analytical method: ICP-AES

Concentration Units (µg/L, mg/L, mg/kg dry weight or µg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum | 3660 | | 11/09/2018 | 1227 |
| 7440-36-0 | Antimony | 1.5 | J* | 11/09/2018 | 1227 |
| 7440-38-2 | Arsenic | 7.5 | | 11/09/2018 | 1227 |
| 7440-39-3 | Barium | 79.9 | | 11/09/2018 | 1227 |
| 7440-41-7 | Beryllium | 0.91 | | 11/09/2018 | 1227 |
| 7440-43-9 | Cadmium | 3.0 | | 11/09/2018 | 1227 |
| 7440-70-2 | Calcium | 7650 | * | 11/09/2018 | 1227 |
| 7440-47-3 | Chromium | 24.1 | | 11/09/2018 | 1227 |
| 7440-48-4 | Cobalt | 2.7 | J | 11/09/2018 | 1227 |
| 7440-50-8 | Copper | 21.8 | | 11/09/2018 | 1227 |
| 7439-89-6 | Iron | 38400 | D | 11/09/2018 | 1252 |
| 7439-92-1 | Lead | 246 | | 11/09/2018 | 1227 |
| 7439-95-4 | Magnesium | 1930 | * | 11/09/2018 | 1227 |
| 7439-96-5 | Manganese | 518 | * | 11/09/2018 | 1227 |
| 7440-02-0 | Nickel | 9.6 | | 11/09/2018 | 1227 |
| 7440-09-7 | Potassium | 215 | J | 11/09/2018 | 1227 |
| 7782-49-2 | Selenium | 2.8 | J | 11/09/2018 | 1227 |
| 7440-22-4 | Silver | 0.45 | J | 11/09/2018 | 1227 |
| 7440-23-5 | Sodium | 149 | J | 11/09/2018 | 1227 |
| 7440-28-0 | Thallium | 2.5 | U | 11/09/2018 | 1227 |
| 7440-62-2 | Vanadium | 12.8 | | 11/09/2018 | 1227 |
| 7440-66-6 | Zinc | 306 | | 11/09/2018 | 1227 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP2

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-01

% Solids: 34.6

Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.0 | J | 11/02/2018 | 0958 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-02
 % Solids: 33.6 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.3 | | 11/02/2018 | 0959 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP4

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-03
 % Solids: 48.5 Date Received: 10/24/2018
 Analytical method: Spectrophotometry

Concentration Units (µg/L, mg/L, mg/kg dry weight or µg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 17.9 | | 11/02/2018 | 1000 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP5

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-04
 % Solids: 65.3 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|--------------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 8.1 7.3 | | 11/02/2018 | 1001 |

NOTE: Hardness (total) is reported in mg/L

MA 2/8/19

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP6

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
Matrix: Soil Lab Sample ID: 8100326-05
% Solids: 42.8 Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.5 | | 11/02/2018 | 1005 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP7

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-06
 % Solids: 76.1 Date Received: 10/24/2018
 Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 1.2 | | 11/02/2018 | 1006 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNP8

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-07
 % Solids: 70.8 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 3.7 | | 11/02/2018 | 1007 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ1

Lab Name: Bonner Analytical Testing Co.

Contract: EPW14029

Lab Code: BON Case No.: 47927

MA No.: _____ SDG No.: MESNP2

Matrix: Soil

Lab Sample ID: 8100326-10

% Solids: 78.6

Date Received: 10/24/2018

Analytical method: Spectrophotometry

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 0.53 | | 11/02/2018 | 1011 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM I-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ2

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-11
 % Solids: 82.5 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 0.73 | | 11/02/2018 | 1012 |

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MESNQ3

Lab Name: Bonner Analytical Testing Co. Contract: EPW14029
 Lab Code: BON Case No.: 47927 MA No.: _____ SDG No.: MESNP2
 Matrix: Soil Lab Sample ID: 8100326-12
 % Solids: 83.2 Date Received: 10/24/2018
 Analytical method: Spectrophotometry
 Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight or μg): _____ mg/Kg

| CAS NO. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---------|---------|---------------|---|---------------|---------------|
| 57-12-5 | Cyanide | 47.1 | D | 11/02/2018 | 1014 |

NOTE: Hardness (total) is reported in mg/L

Comments:

Appendix C

Illinois EPA Sample Photographs

| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1300 |
| PHOTO BY: | J. Willman |
| DIRECTION: | west |
| COMMENTS: | Photo of sediment sample location X221 in Indian Ridge Marsh approximately 1,400 feet south of the culvert draining the southwest corner of the Coke Plant. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1300 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X221 in Indian Ridge Marsh approximately 1,400 feet south of the culvert draining the southwest corner of the Coke Plant. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1320 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X222 in Indian Ridge Marsh approximately 630 feet south of the culvert draining the southwest corner of the Coke Plant. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1320 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X222 in Indian Ridge Marsh approximately 630 feet south of the culvert draining the southwest corner of the Coke Plant. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1420 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X223. Sample collected approximately 8 feet south of the culvert pipe running southward from the site under 116th Street. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1420 |
| PHOTO BY: | J. Willman |
| DIRECTION: | south |
| COMMENTS: | Photo of sediment sample location X223. Sample collected approximately 8 feet south of the culvert pipe running southward from the site under 116th Street. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1500 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X224. Sample collected collected from the east side of the ditch on the north side of the culvert flowing under 116th Street and into Indian Ridge Marsh. Duplicate sample X230 collecte here also. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1500 |
| PHOTO BY: | J. Willman |
| DIRECTION: | south |
| COMMENTS: | Photo of sediment sample location X224. Sample collected collected from the east side of the ditch on the north side of the culvert flowing under 116th Street and into Indian Ridge Marsh. Duplicate sample X230 collecte here also. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1540 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X225. Sample collected collected from the eastern opening of a culvert running westward from the ditch heading beneath the railroad tracks. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1540 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X225. Sample collected collected from the eastern opening of a culvert running westward from the ditch heading beneath the railroad tracks. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1640 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X226. Sample collected from a low-lying area adjacent to the ditch running north and south along the western border of the Coke Plant property. |



| | |
|-------------------|---|
| DATE: | 10/22/2018 |
| TIME: | 1640 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X226. Sample collected from a low-lying area adjacent to the ditch running north and south along the western border of the Coke Plant property. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 0900 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of sediment sample location X227. Sample collected collected from low-lying area northwest of site that flowed into ditch running north and south along the western border of the Coke Plant property. |



| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 0900 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X227. Sample collected collected from low-lying area northwest of site that flowed into ditch running north and south along the western border of the Coke Plant property. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 0930 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of sediment sample location X228. Sample collected collected from low-lying area northwest and north of site that flowed into ditch running north and south along the western border of the Coke Plant property. |



| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 0930 |
| PHOTO BY: | J. Willman |
| DIRECTION: | south |
| COMMENTS: | Photo of sediment sample location X228. Sample collected collected from low-lying area northwest and north of site that flowed into ditch running north and south along the western border of the Coke Plant property. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILLN000509241 | COUNTY: Cook |

| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1040 |
| PHOTO BY: | J. Willman |
| DIRECTION: | west |
| COMMENTS: | Photo of waste sample location X331. Sample collected in west-central portion of site at the beginning of drainageway that once flowed south and then off-site into Indian Ridge Marsh |



| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1040 |
| PHOTO BY: | J. Willman |
| DIRECTION: | east |
| COMMENTS: | Photo of waste sample location X331. Sample collected in west-central portion of site at the beginning of drainageway that once flowed south and then off-site into Indian Ridge Marsh |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1120 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of waste sample location X333. Sample collected in east-central portion of site near foundation of historical tank foundation. |



| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1120 |
| PHOTO BY: | J. Willman |
| DIRECTION: | southeast |
| COMMENTS: | Photo of waste sample location X333. Sample collected in east-central portion of site near foundation of historical tank foundation. |



| | |
|---|---------------------|
| SITE NAME: Acme Steel Coke Plant | |
| CERCLIS ID: ILN000509241 | COUNTY: Cook |

| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1140 |
| PHOTO BY: | J. Willman |
| DIRECTION: | north |
| COMMENTS: | Photo of waste sample location X332. Sample collected in south-central portion of site where high concentrations of SVOCs identified in previous sampling events |



| | |
|-------------------|--|
| DATE: | 10/23/2018 |
| TIME: | 1140 |
| PHOTO BY: | J. Willman |
| DIRECTION: | south |
| COMMENTS: | Photo of waste sample location X332. Sample collected in south-central portion of site where high concentrations of SVOCs identified in previous sampling events |

