west virginia department of environmental protection

Environmental Remediation
601 57th Street SE
Charleston, WV 25304

Austin Caperton, Cabinet Secretary
dep.wv.gov

August 16, 2019

Justin Bleiler
Site Assessment Manager, SEMD
Environmental Protection Agency, Region 3
1650 Arch St., SD12
Philadelphia, PA 19103
215-814-3308

RE: Paden City PCE Remedial Assessment Request

Justin,

West Virginia Department of Environmental Protection (WVDEP), Office of Environmental Remediation (OER) is requesting the Environmental Protection Agency's (EPA) assistance with a remedial preliminary assessment at the above-mentioned response site. The city water supply wells are consistently being impacted by Perchloroethylene (PCE) above MCLs.

The state Bureau for Public Health (BPH) is aware and is active in communications with city officials. The city is working with Thrasher Engineering to install an updated air scrubber system to reduce the levels of PCE to below MCLs. However, levels in the influent (raw) water have increased and WVDEP has concerns over why this is occurring.

A Removal Assessment was performed by OSC Dennis Matlock and at least one source has been identified. An area around a former dry cleaner has shown very high levels of PCE. 19,000,000 µg/kg (1.9%) in soils at 14.5 fbgs and 4,700 µg/L in ground water. Please see attached draft assessment report for more analytical and site-specific information.

WVDEP is requesting a concurrent remedial assessment at the site because the preliminary results of the removal action suggest that a future remedial response is imminent. WVDEP feels it would be appropriate given that receptors are already known to be affected a more rapid approach be given to the site.

Thank You

Jason S. McDougal
Program Manager-WVDEP, OER

Promoting a healthy environment.

ecc Casey Korbini-Deputy Director for Remediation Programs, WVDEP, OER
Bill Huggins-Project Manager, WVDEP, OER

Attachment- Draft Investigation Report Removal Site Evaluation Paden City Site Assessment
Rev. 0, April 2019

Investigation Report
Removal Site Evaluation

Paden City Site Assessment
Paden City, Wetzel County, West Virginia

DCN: 03088-4-01-IS-0970
TDD No: T501-18-01-001
Contract No.: EP-S3-15-03
April 4, 2019

TechLaw

EPA Region III
START V - West
Superfund Technical Assessment and Response Team

Submitted to: Dennis Matlock, On-Scene Coordinator
United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, Pennsylvania 19103

Investigation Report
Removal Site Evaluation

Paden City Site Assessment
Paden City, Wetzel County, West Virginia

Prepared for:

U.S. Environmental Protection Agency
Region III
Wheeling, WV

EPA Contract No.:	EP-S3-15-03
TDD No.:	T501-18-01-001
EPA Work Assigner:	Dennis Matlock, On-Scene Coordinator
Date Prepared:	April 4, 2019
Prepared by:	TechLaw, Inc.

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Attachment 1 – Soil Core Logs
Attachment 2 – Chain of Custody/Traffic Reports
Attachment 3 – Groundwater Sampling Logs
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1.0 INTRODUCTION

TechLaw, Inc. (TechLaw) was tasked by the U.S. Environmental Protection Agency (EPA), Region III to conduct a Removal Assessment in Paden City, Wetzel County, West Virginia. This report provides a summary of investigation activities conducted as part of the Paden City Site Assessment. These investigation activities were conducted under EPA Superfund Technical Assessment and Response Team (START) – West contract EP-S3-15-03, Technical Direction Document (TDD) No. T501-18-01-001.

2.0 SITE DESCRIPTION

The Site consists of mixed residential and commercial areas within the City limits of Paden City, WV in the vicinity of the City's four municipal drinking water wells and water treatment plant (WTP) (Refer to **Figures 1 and 2**). The geographic coordinates for the Paden City WTP are 39.60649° latitude and -80.93588° longitude. Paden City and the investigation area are located in the Paden City Bottom of the Ohio River Valley along the left descending bank of the Ohio River. The investigation area was located outside the 100-year flood zone.

3.0 BACKGROUND

Based on background documents received by EPA, tetrachloroethene (a.k.a., PCE or tetrachloroethylene) was found in Paden City's drinking water (finished water) during water testing in 2010. The highest PCE concentration was reported at 49.6 micrograms per liter (µg/L) in municipal well # 2. Four City drinking water wells were sampled on August 15, 2017. Analytical results in the municipal wells indicated the presence of PCE at the following concentrations: 0.55 µg/L in Well #1 *(Well #1 is no longer in use)*; 15.1 µg/L in Well #2 *(Well #2 is no longer in use)*; 14.8 µg/L in Well #3; and non-detect in Well #4. Samples of raw water and finished/treated water were collected on August 21, 2017. The analytical results for the samples indicated the presence of PCE at concentrations of 7.58 µg/L in the raw water and 4.32 µg/L in the WTP treated/finished water. The Maximum Contaminant Level (MCL) for PCE (tetrachloroethylene) established under the Safe Drinking Water Act (SDWA) is 5 µg/L. A drinking water sample collected from the system on May 21, 2018 had PCE detected at a concentration of 5.53 µg/L, which slightly exceeded the MCL.

The location of a former dry cleaning facility was identified in the area near the City well field. The former Band Box Cleaners operated a dry cleaning facility at 223 North 4th Avenue in Paden City. The facility had an EPA Identifier of WVD981743578 and is listed as a generator/handler of hazardous wastes, including D039 – tetrachloroethylene (PCE). PCE is commonly used in dry cleaning operations. Documents provided by the West Virginia Department of Environmental Protection (WVDEP) indicate that the dry cleaning business was operated at that location from circa 1959 – 1975.

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4.0 INVESTIGATION ACTIVITIES

TechLaw conducted the following activities as part of this investigation: conducted site visits for meetings and to reconnoiter the area; prepared a Sampling Quality Assurance/Quality Control (QA/QC) Work Plan (SQAP); arranged for analytical services; and conducted a multi-media sampling event which included collection of subsurface soil samples, installation of four groundwater monitoring wells, and collection of groundwater samples from EPA-installed monitoring wells, municipal drinking water supply wells, and a well at a local industrial facility.

The following paragraphs summarize the investigation and sampling activities conducted at the Site and provide a synopsis of the analytical results. Site and sample location maps, photographs, data summary tables, and data validation reports are attached at the end of this report.

4.1 Site Meeting and Reconnaissance – September 27, 2018

On September 27, 2018, the EPA OSC and TechLaw mobilized to the Site to meet with Paden City officials and the West Virginia Department of Environmental Protection (WVDEP). Others in attendance included the Mayor, Mr. Clyde Hochstrasser, representatives from Thrasher Engineering, consultants for Paden City, and Mr. Lew Baker, representing the West Virginia Rural Water Association.

The City Water Plant Operator informed the group that city Well #2 had been shut down due to PCE contamination and Well #4 was shut down for repairs. Well # 3 and #5 were the wells currently in use (Well #1 had previously been put out of service and was replaced by Well #5). The Water plant Operator led the group on a tour of the city water plant, the city wells, and the location of a former dry cleaner. The former dry cleaner had operated as the Band Box Cleaners, EPA Handler identifier (ID) WVD981743578, located at 223 N 4th Avenue, Paden City, WV.

Following the tour, the group met at the City Hall building to discuss the project. EPA planned to prepare a work plan for the investigation, which would include the area surrounding the former dry cleaner property, groundwater, and sampling of the sanitary sewer. The water plant operator indicated that the sanitary sewer line in the street on the north side of the dry cleaner (Wildcat Drive) normally drained to the east to Maurice Street, then to the north and eventually to the city waste water treatment plant. The sanitary sewer line drains from the area of the former dry cleaner toward the location of City Well #2, the first well that was impacted by PCE contamination. Therefore, there was a concern that PCE contamination may have migrated toward Well #2 via the sewer and may have leaked from the terracotta sewer line. The City planned to run a camera through the sewer line to attempt to identify any potential leaks. Plans were also made to install transducers in the city wells to measure groundwater levels.

The initial investigation area is depicted in **Figure 2 – Investigation Area Map**, and includes the locations of the city wells, the WTP, and the former dry cleaning facility.

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4.2 Pre-Mobilization Activities

TechLaw prepared a Draft SQAP to outline sampling procedures for collecting subsurface soil samples, groundwater samples from monitoring walls and city municipal wells, and sanitary sewer samples (TechLaw, 2018). The SQAP also provided for installation of groundwater monitoring wells, specified analytical parameters, and detailed project quality assurance protocols. TechLaw prepared a draft Analytical Request Form (ARF) and submitted it along with the SQAP to the EPA OSC for review and approval. After the OSC approved the SQAP and ARF, TechLaw submitted the documents to the EPA Region III Office of Analytical Services and Quality Assurance (OASQA) - Client Services Team (CST) to arrange for analytical services. The CST scheduled all analytical services through Contract Laboratory Program (CLP) case number 48006. Analytical parameters for soil samples were CLP Target Analyte List (TAL) Volatiles. Parameters for groundwater and sanitary sewer samples were CLP TAL Trace Volatiles. Additionally, analytical services were scheduled for analysis of investigation-derived waste (IDW) soil cuttings and water for waste characterization. IDW samples were analyzed for the following: Toxicity Characteristic Leaching Procedure (TCLP) volatiles, semivolatiles, pesticides, and metals; CLP TAL Aroclors; and total CLP TAL Volatiles (TechLaw, 2018). Samples for TCLP metals were assigned to Chemtex, Port Arthur, TX. All other analyses were CLP organics, and were assigned to Shealey Environmental Services, West Columbia, SC.

TechLaw prepared a request for quote (RFQ) and scope of work (SOW) for drilling services, to include collection of subsurface soil cores using direct-push technology (DPT) and construction/installation of groundwater monitoring wells. The RFQ/SOW was sent to three drilling firms for competitive bid. A subcontract to perform the drilling services was awarded to J.L. Sexton & Son, North Tazewell, VA.

On November 8, 2018, the OSC and TechLaw met with WVDEP and city officials to identify specific locations for installation of groundwater monitoring wells. Locations selected for two wells were located on Paden City High School property. The group met with school officials to explain planned activities and obtained access to the property to install the wells. A background well location was selected in Sturgeon Alley, within the City right-of-way (ROW). The OSC and TechLaw met with the current owner of the former dry cleaner property (former Band Box Cleaner) and explained planned investigation activities. The OSC provided the owner an access agreement form. The owner later signed and granted EPA access to conduct the investigation on the property. TechLaw also delivered an access form to a local manufacturing plant, Wissmach Glass, to get access to collect a groundwater sample from the facility's process water well. The Plant manager later signed and granted EPA access to collect a sample from the facility well.

Prior to commencing the sampling/drilling work, a call was made to WV 811 (MISS Utility) to have underground utilities marked in the investigation area. Additional utility location in city ROWs was provided by the city Water Plant Operator during the course of the investigation.

4.3 Subsurface Soil Sampling and Monitoring Well Installation – November 26 to December 1, 2018

On November 26, 2018, TechLaw mobilized three personnel to the Site to begin a subsurface investigation. From November 26 – December 1, 2018, TechLaw and the subcontracted driller conducted the following investigation activities: collected subsurface soil core samples at 11 locations; logged, screened, and collected soil samples for laboratory analysis from the recovered cores; drilled and constructed four groundwater monitoring wells; and developed the monitoring wells. A detailed description of activities is provided in the following subsections.

4.3.1 Subsurface Soil Sampling

The initial activities involved collecting subsurface soil core samples from the area around the former dry cleaner building and along the sanitary sewer line extending along Wildcat Drive and an alleyway located north and east of the former dry cleaner. Subsurface soil core samples were collected using a track-mounted 54 Series Geoprobe® equipped with a 4-foot (ft.) macro core tube with piston point and dedicated plastic sleeve liners.

Subsurface cores were collected from 11 borehole locations. Eight of the borehole locations were located around the northern and eastern portion of the former dry cleaner building to attempt to find a potential source area of contamination around the building. Three borehole locations were along the sanitary sewer line extending in an east-northeasterly direction along Wildcat Drive and an alleyway to the north and east of the formerly dry cleaner. These boreholes were constructed in an attempt to identify if a historical release of PCE contamination from the sanitary sewer line may have occurred. Borehole/subsurface sampling locations are depicted in **Figure 3 – Subsurface Soil Sample Location map.** Sample identification (ID) numbers, sample depths, PID screening results, a general description of the soil samples, and total borehole depths are presented in **Table 1 – Borehole/Subsurface Soil Sample Descriptions.**

Soil cores were logged for lithology and screened using a photoionization detector (PID) for volatile organic compounds (VOC). The PID measurements were collected every 6 inches in the recovered cores. The logging was used to determine the presence of VOC contamination and groundwater. Logging and screening of the soil cores was used to determine discrete depth intervals with potential contamination for collecting soil samples (PID, visual, odors). Soil samples were collected from intervals of suspected contamination, from the smallest discrete zone exhibiting the highest VOC PID reading. If no contamination was observed, the samples were collected from the capillary fringe zone if groundwater was encountered or near the bottom of the borehole. Soil samples were collected using ESS Core N' One™ samplers, with the exception of SB-06-1, which was collected in 4-ounce glass jars with septa due to an excessive amount of gravel in the matrix. Soil core logs are presented in **Attachment 1 – Soil Core Logs.**

Moist-to-wet conditions in subsurface soil core samples and cold/wet weather conditions limited the effectiveness of the PID screening. No PID readings above zero were observed in many sample intervals which had low-to-moderate concentrations of PCE subsequently reported in

laboratory analytical results. However, notable PID reading were observed in soil cores collected from borehole numbers SB-05, SB-06, and SB-07. These boreholes were located on the eastern side of the building, near a garage door in the building. The highest PID reading, 59 parts per million (ppm - calibrated with isobutylene), was observed in SB-05 at approximately 14.5 ft. bgs. This borehole was located immediately north of the gravel area at the garage door. The next highest PID reading was 43.7 ppm in SB06 at a depth of 4-8 ft. bgs (note: the core sleeve split and the entire core interval was placed into a plastic ziplock bag; the PID reading was made in the headspace of the ziplock). SB-06 was located immediately south of the gravel area by the garage door. Though notable, PID readings were relatively low even for soil samples with high concentrations of PCE as reported in subsequent laboratory results. This is exemplified by soil sample SB-05-1, which had PCE detected at a concentration of 1.9% but had a PID reading of only 59 parts per million.

Boreholes were terminated at 16 ft. below ground surface (bgs) in the eight boreholes around the building (SB-01 through SB-08) due to flowing/heaving sands encountered which prevented core recoveries with the macro core tubes and piston point assembly. Boreholes located along the sanitary sewer line (SB-09, SB-10, and SB-11) were terminated at 12 ft. bgs. Moist-to-wet soils were found from near the surface to the bottom of each borehole around the building and along the sewer line. A wet-to-saturated layer was encountered around 9-10 ft. depth in many of these boreholes, even though no confining soil layers were encountered (silt or clay). Soils around the former dry cleaner building consisted primarily of sand with varying amounts of gravel. Increased moisture levels (wet, saturated) in recovered soil cores were observed primarily in depth intervals where finer sands or silty sands were observed. Static depth-to-water levels measured in boreholes prior to abandonment were (in ft. bgs): SB-01 - 7.55 ft.; SB-02 - 7.55 ft.; SB-03 – 7.85 ft.; SB-04 – 9.45 ft.; SB-05 – 8.55 ft.; SB-06 – 8.95 ft.; SB-07 – 8.35 ft.; SB-08 – 10.35 ft.; SB-09 – no observed water (borehole collapsed to 8 ft. depth); SB-10 – hole collapsed, water observed at approximately 5.5 ft.; SB-11 – no water observed. It is uncertain if the observed groundwater levels are indicative of a perched layer or due to the extremely wet conditions experienced in the area over the previous months. These water-bearing zones were encountered at depths too shallow to be in the alluvial aquifer, though connectivity to the alluvial aquifer is likely. All boreholes were abandoned in accordance with West Virginia State Code – 47CSR60.

The DPT tooling was decontaminated between boreholes. One rinsate sample was collected each day of subsurface soil sampling with the DPT to evaluate the potential for cross contamination. The rinsate samples were collected by pouring deionized ultra-filtered (DIUF) water over the DPT cutting shoe, collecting the rinse water in a dedicated aluminum pan, then filling the sample jars with the rinse water. One trip blank was also prepared using the same DIUF water and shipped in each cooler containing samples to be analyzed for TAL volatiles. The rinsate and trip blanks were analyzed for TAL volatiles.

Subsurface soil samples were stored in coolers on ice until shipment to the assigned laboratory. The samples were shipped to Shealy Environmental Services, West Columbia, SC to be analyzed for CLP TAL volatiles by CLP SOW SOM02.4 under CLP Case No. 48006. Samples were shipped daily due to the 48-hour holding time for volatiles in soil samples. The Regional copies

of the Chain of Custody/Traffic Reports (COC/TR) are provided in **Attachment 2 - Chain of Custody/Traffic Reports.**

4.3.2 Monitoring Well Installation

TechLaw directed the subcontracted driller to install four groundwater monitoring wells, designated as EPA01 through EPA04. Well locations were as follows: EPA01 was the background well, located south and presumed hydrologically upgradient of the former dry cleaning property; EPA02 was installed between the former dry cleaner and City Well #2; EPA03 was installed along the edge of Wildcat Drive, adjacent to, and on the north side of the former dry cleaner; and EPA04 was installed between the former dry cleaner and the other city wells (Well #s 3, 4, and 5). EPA monitoring well locations are depicted on **Figure 4 – EPA Well Location Map.**

The monitoring wells were installed using a truck-mounted B53 drilling rig with 3 ¼" augers, which create an 8-inch diameter borehole. A 2 ft. soil core sample was collected using a split spoon sampler in advance of each 5 ft. auger flight drilled. The soil cores were logged and screened as described in Section 4.3.1; however, soil samples for laboratory analysis were not collected. The primary purpose for logging the soil cores was to determine soil lithology, screen for VOC contaminants, and determine the depth of groundwater in order to determine well construction specifications. The wells were constructed using 2-inch inside diameter schedule 40 polyvinyl chloride (PVC) pre-packed well screens and risers. Well screen size was 0.010 inch (10-slot). All the wells were constructed with flush-mounted surface completions. A general description of the installation of each well is described in the following paragraphs. Well construction specifics such as total depth, screened intervals, and measured depth-to-water after construction are presented in **Table 2 – EPA Monitoring Well Construction/Sampling Depths**. Soil core logs are presented in **Attachment 1 – Soil Core Logs.**

EPA01.

EPA01 was installed in Sturgeon Alley, near the intersection with Work Street. Groundwater was encountered at a relatively shallow depth (saturated soil at 8.5 ft. bgs). This was not assumed to be the alluvial aquifer but possibly a perched/semi-perched zone of groundwater. City officials informed TechLaw that the area had once been a low-lying swampy area that had been filled in many years ago. The well was set with the base at 21 ft. bgs and with a 10-ft. screen interval. The groundwater level was measured at 11.71 ft. from top of casing (TOC) after the well was installed.

EPA02.

EPA02 was installed inside the fence at the Paden City High School football stadium. Groundwater was encountered at approximately 35 ft. bgs. The well was set with the base at 43 ft. bgs and a 10-ft. screen interval. The groundwater level in the well was measured at 34.75 ft. TOC.

EPA03:

EPA03 was installed at the edge of Wildcat Drive, north of the former dry cleaner building. DPT soil cores had been collected near the well location; therefore, split spoon samples were not collected. Static water levels measured in DPT boreholes near the EPA03 location varied between approximately 8 to 10 ft. bgs. The well was set at 21.5 ft. bgs with a 10-ft. screen interval. The measured DTW after the well was installed was lower than expected, at 19.03 ft. TOC.

EPA04:

EPA04 was installed in an alleyway near the intersection of Stephens Street and North 3rd Avenue, adjacent to the northwestern corner of the Paden City High School building. Split spoon core samples collected at approximately 19 ft. and 29-30 ft. bgs exhibited thin layers of saturated soils, with only moist soil below. The well was drilled and set at 59 ft. bgs with a 15 ft. screen interval. The groundwater level in the well was measured at 50.0 ft. TOC after installation.

4.4 Groundwater and Sanitary Sewer Sampling – December 11 – 12, 2018

TechLaw mobilized to the Site and collected groundwater samples and waste water samples from two sanitary sewer manholes on December 11-12, 2018. Groundwater samples were collected from the following locations: the four newly installed EPA monitoring wells; an industrial process water well; Paden City municipal Well Nos. 3, 4, and 5; influent to the City's water plant (with only Well No. 5 operating); and an effluent sample from the water plant. Two waste water samples were also collected from two sanitary sewer manholes located near the former dry cleaning property. The samples were collected in certified-clean 40-milliliter (ml) VOA vials that were pre-preserved with hydrochloric acid (HCL). Groundwater and sanitary sewer samples were stored in coolers on ice until shipment to the assigned laboratory. The samples were shipped to Shealy Environmental Services, West Columbia, SC to be analyzed for CLP Trace TAL volatiles by CLP SOW SOM02.4 under CLP Case No. 48006. The Regional copies of the COC/TR are provided in **Attachment 2 - Chain of Custody/Traffic Reports.** Sample locations are depicted in **Figure 5 – Groundwater and Sanitary Sewer Sample Location Map**. Sample identifiers, location descriptions, CLP sample Nos., and sample descriptions are provided in **Table 3 – Groundwater, Sanitary Sewer, and IDW Sample Descriptions.**

4.4.1 EPA Monitoring Well Sampling

Groundwater samples were collected from EPA01, EPA02, and EPA04 using low-flow sampling protocols as described in the approved SQAP (TechLaw, 2018). An insufficient water column height in EPA03 precluded low-flow sampling. EPA03 was sampled using a dedicated high density polyethylene (HDPE) bailer. The well was bailed dry, and the sample was collected after

allowing time for the well to recharge. Groundwater sampling logs for samples collected using low-flow protocols are provided in **Attachment 3 – Groundwater Sampling Logs.**

4.4.2 Municipal Wells and Industrial Process Well Sampling

Groundwater samples were collected directly from spigots at municipal Well No. 3 (Sample ID GW003) and an industrial process well at the Wissmach Glass facility (Sample ID GW001) after allowing the Well pumps to run long enough to purge the wells. The pump had been removed from municipal Well No. 4 for well maintenance and it was sampled using low-flow protocols (Sample ID GW005). There was no sampling valve/spigot installed on municipal Well No. 5. In order to collect a sample representative of Well No. 5, the City Water Plant Operators shut off the only other operable well (well No. 3) and a sample was collected from the influent sampling faucet inside the Water Plant (Sample ID GW006). A sample could not be collected from municipal Well No. 2 because it had been shut down and had no electric to power the pump and the pump was still in the well, which prevented sampling using the low-flow bladder pump. A sample and a field duplicate of the Water Plant effluent/finished water were collected directly from the effluent sampling faucet in the Water Plant (Sample IDs GW007 and GW012). The effluent samples were preserved with sodium thiosulfate to dechlorinate the samples, in addition to hydrochloric acid.

4.4.3 Sanitary Sewer Sampling

Waste water samples were collected from two sanitary sewer manholes: one located in Wildcat Drive, to the west of the former dry cleaner (Sample ID WW01); and one in Maurice Street, located east of the former dry cleaner. These samples were collected to attempt to identify if PCE contamination could be entering the sanitary sewer lines from a potential source area via breaks in the line. These samples were collected using dedicated, certified-clean 8-oz. glass jars that were attached to an extension pole using plastic zip ties. The waste water was transferred directly from the 8-oz. jars into the sample 40-ml VOA vials. The manhole in Maurice Street was located downstream of the former dry cleaner, but most of the water flow into the manhole at the time of sampling was from the opposite street/direction. Water flow from the manhole at the time of sampling was toward the direction of the dry cleaner, with some flow to the north in the Maurice Street sewer line.

4.5 Investigation-Derived Waste Sampling

TechLaw collected samples of IDW to characterize the wastes for disposal. IDW generated during the investigation included: drill cuttings from DPT subsurface soil sampling and drilling monitoring well boreholes; drilling equipment decontamination water; and monitoring well development and sampling purge water. The IDW was collected in 55-gallon steel drums and temporarily stored at the City Waste Water Treatment Plant until disposal arrangements could be made.

TechLaw collected two samples of IDW soil. One sample (Sample ID IDW-S-01) was collected from the drum in which the DPT soil cuttings from the subsurface sampling around the former dry cleaner and drill cuttings from installation of EPA03 (installed adjacent to the former dry cleaner property) were placed. This drum was the only soil drum expected to have potentially significant levels of contamination. The second sample (Sample ID IDW-S-02) was collected from a drum containing drill cuttings from the installation of EPA02, which was considered to be representative of the remaining drums of well drill cuttings. The sample was collected using an auger to collect a sample from the top to near the bottom of the drum. The soil was placed into an aluminum pan and thoroughly homogenized prior to filling the sample jars, with the exception of the samples for total VOCs and TCLP VOCs. The total VOC samples were collected from the auger directly into ESS Core N' One™ samplers and the TCLP VOC sample was collected directly from the auger and placed into 4-oz. glass jars with septa lids with no homogenization.

TechLaw collected one sample of IDW water from the drum containing purge water from developing and sampling the monitoring wells (Sample ID IDW-W-01). The sample was collected using a coliwasa and by stirring the drum contents and filling the sample jars directly from the drum.

IDW samples were submitted to the assigned laboratories to be analyzed for the following: TCLP volatiles, semivolatiles, pesticides, and metals; CLP TAL Aroclors; and total CLP TAL Volatiles. Samples for TCLP metals were assigned to Chemtex, Port Arthur, TX. All other analyses were CLP organics, and were assigned to Shealey Environmental Services, West Columbia, SC.

5.0 ANALYTICAL RESULTS

5.1 Data Validation

Independent third party data validation of the analytical data provided through the CLP was accomplished by the EPA Environmental Services Assistance Team (ESAT). Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage_4_Validation_Electronic_Manual). Analytical data for IDW samples did not require validation.

The data validators sometimes assign qualifiers to data based on a review of the data and quality control parameters. Lists of potential data qualifiers and definitions are provided below.

<u>Glossary of Organic Data Qualifier Codes</u>:

Validation Qualifiers	In order of descending precedence. Only one of these qualifiers may apply to any result.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

Validation Qualifiers	In order of descending precedence. Only one of these qualifiers may apply to any result.

N The analyte has been "tentatively identified" or "presumptively" as present.

B The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

5.1.1 Data Validation Issues

There were no significant issues with analysis of soil samples identified in the data validation report, though some samples required analysis at a dilution due to high PCE concentrations. This resulted in elevated quantitation levels in some samples.

A significant issue was identified with the analysis of the groundwater and sanitary sewer samples. During sample analyses on 12/22/2018, a foaming sample caused the analytical instrument to stop. The Closing Calibration Verification standard was not analyzed due to the instrument stop and thirteen samples were re-analyzed 1 to 3 days outside the 14 day technical holding time. Secondary dilutions required for two samples were also analyzed 3 days outside the 14 day technical holding time and the initial analyses of two samples were 2 to 3 days outside the technical holding time. Detected concentrations reported in the affected samples may be

estimated low and were qualified "J-". Quantitation limits were assessed as unusable and were qualified "R".

5.2 Analytical Results

Analytical results for subsurface soil, groundwater, sanitary sewer waste water, and IDW samples are discussed in the following subsections. For reference purposes, the analytical results for soil samples were compared with the *EPA Regional Screening Levels* for Resident Soil and Industrial Soil (EPA, 2018). However, it should be noted that the soil samples were collected from depths below 2 ft. bgs, and the contaminants would not be likely be readily available to the ingestion or physical contact routes of exposure to nearby residents and the public. Therefore comparison of the subsurface soil results to the RSLs may not be directly applicable. Groundwater sample results were compared to the Safe Drinking Water Act Maximum Contaminant Levels (MCL) and also the *EPA Regional Screening Levels* for tap water (EPA, 2018). Consistent with EPA Region 3 screening procedures, the RSL table considers a 1E-6 cancer risk and target hazard quotient of 0.1 to account for chemicals that may have additive effects.

5.2.1 Analytical Results for Subsurface Soil Samples

PCE, the primary contaminant of concern (COC) for this investigation, was detected in 11 of the 13 subsurface soil samples. PCE concentrations in soil samples ranged from non-detect to 19,000,000 micrograms per kilogram (µg/kg). PCE was not detected in samples SB09-1 and SB11-1. These samples were collected in Wildcat Drive at locations approximately 60 ft. west of the former dry cleaner building (SB09-1) and in an alley approximately 260 ft. east of the dry cleaner. The remaining samples, which all had detections of PCE, were collected around the perimeter of the former dry cleaner building (**Figure 3**). The highest PCE concentrations were detected in samples SB05-1 at 19,000,000 µg/kg (1.9%) and SB06-2 at 180,000 µg/kg. Both of these results exceed the RSL for industrial soils, 39,000 µg/kg. These samples were collected at locations adjacent to a partially graveled area in front of a garage door in the eastern side of the building at depths of approximately 14 ft. bgs for SB05-1 and 13 ft. bgs for SB06-2. PCE concentrations decreased in soil samples collected to the north (12,000 µg/kg in SB03-1) and south (8,500 µg/kg in SB07-1) of SB05-1 and SB06-2, indicating the *approximate* north-south extent of the main soil source plume on the eastern side of the building. Duplicate samples collected on the western side of the building, SB08-1 and SB08-2, had PCE results of 510 µg/kg and 3,800 µg/kg, respectively. This indicates that the main source area in soils is on the northeastern side of the former dry cleaner building. The main source area has not been delineated to the east of the building.

A summary of analytical results for analytes detected in one or more soil samples is presented in **Table 4 – Summary of Analytical Results for VOCs Detected in Subsurface Soil.** Table 4 also identifies sample results exceeding the RSLs for residential and industrial soils. Complete analytical results for soil samples are included in **Attachment 4 –Data Validation Report – Subsurface Soil.**

5.3 Analytical Results for Groundwater and Sanitary Sewer Samples

PCE was detected in 10 of the 11 groundwater samples collected from municipal wells, EPA monitoring wells, and an industrial process well. PCE concentrations in groundwater samples ranged from non-detect to 4,700 µg/L.

The highest concentrations of PCE were detected in duplicate samples collected from EPA monitoring well EPA03 (Sample IDs GW010 and GW013) at 4,700 J- µg/L and 4,500 J- µg/L. This exceeded both the MCL of 5 µg/L and the EPA RSL for tap water, 4.1 µg/L. EPA03 is the well located in road adjacent to the former dry cleaner. PCE was also detected in background monitoring well EPA01 (sample ID GW008) at 4.6 J- µg/L. This exceeded the EPA RSL for tap water (4.1 µg/L). EPA01 was located approximately one block hydrologically upgradient (presumably) of the former dry cleaner. It is uncertain if conditions exist in this area with apparent perched zones of groundwater that could periodically result in the groundwater flow direction from the dry cleaner toward the background well. However, the relatively low level of PCE contamination could have resulted from contaminated fill material used to backfill the area many years ago or another potential source of PCE in the area. PCE was not detected in EPA02 (sample ID GW009), which is located between the former dry cleaner and municipal well #2, and was detected at a trace level of 0.19 J µg/L in EPA04 (sample ID GW011), which is located between the dry cleaner and municipal Wells #3, #4, and #5.

PCE was detected in all the municipal wells, with concentration at: 15 µg/L in Well #3 (sample ID GW003); 0.25 J µg/L in Well #4 (sample ID GW005); and 21 J µg/L in Well #5 (sample ID GW006). Note that Well #4 was not in operation and was sampled using low-flow protocol and Well #5 was sampled from the Water Plant influent faucet with only Well #5 operating. PCE was detected in the duplicate Water Plant effluent samples (sample IDs GW007 and GW012) at 7.2 J- µg/L in both samples and also in the sample collected from the Wissmach Glass process water well (sample ID GW001) at 12 µg/L. The PCE concentrations detected exceeded both the MCL (5 µg/L) and the EPA RSL for tap water (4.1 µg/L) in municipal well samples from Well #3 and Well #5, both effluent samples, and in the Wissmach Glass well.

PCE was detected in one of the two sanitary sewer manholes, Manhole #2 (sample ID WW02) at 1.5 J µg/L.

A summary of analytical results for analytes detected in one or more groundwater or waste water samples is presented in **Table 5 – Summary of Analytical Results for VOCs Detected in Groundwater and Sewer Samples.** Table 5 also identifies sample results exceeding MCLs and/or the EPA RSLs for tap water. Complete analytical results for groundwater and sewer samples are included in **Attachment 5 - Data Validation Report – Groundwater and Sewer.**

5.4 IDW Analytical Results and T&D

Analytical results for TCLP VOCs for the IDW soil sample collected from the drummed IDW from the DPT and well installation drilling at the former dry cleaner had a PCE concentration of 2.4 milligrams per liter (mg/L). This exceeded the regulatory limit of 0.7 mg/L. That drum was

classified as hazardous waste, waste code D039, which required disposal as a hazardous waste. Results for the other IDW samples indicated the other drums of IDW were non-hazardous. Complete analytical results for IDW samples are included in **Attachment 6 – IDW Analytical Results.**

The eight drums of IDW were transported offsite on March 1, 2019 for disposal at Environmental Enterprises, Inc., 4650 Spring Grove Avenue, Cincinnati, OH 45232, OHD083377010. Copies of the waste manifests are provided in **Attachment 7 – Waste Manifests.**

6.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation has identified a significant source area of PCE contamination in subsurface soil on the eastern side of a former dry cleaner located at 223 N. 4th Avenue, Paden City, WV. PCE was detected in subsurface soil samples up to 19,000,000 µg/kg (1.9%) at a depth of approximately 14.5 ft. bgs. A monitoring well installed in a perched zone of groundwater near the former dry cleaner had PCE detected at a concentration of 4,700 J- µg/L. However, monitoring wells installed between the former dry cleaner and the municipal wells had PCE concentrations detected at only a trace level (0.19 J µg/L in EPA04) or non-detect (EPA02).

PCE levels in municipal wells remains a concern. PCE was detected in municipal Well #3 and Well #5 at concentrations of 15 µg/L and 21 µg/L, respectively. PCE was also detected in an industrial process well located to the east of the municipal Water Plant and Well #4 and #5 at a concentration of 12 µg/L. Samples collected from the effluent/finished water sampling faucet in the Water Plant (not from out in the public distribution system) had 7.2 µg/L PCE.

Recommendations for consideration for further investigation:

- Ground water elevations in monitoring wells and municipal wells should be monitored and the results should be used to do groundwater modelling to evaluate groundwater flow direction in the area. The modelling information would be used to identify locations for installing additional monitoring wells.

- Install additional monitoring wells to help define plume migration from the former dry cleaners. Installation of nested wells to evaluate shallow perched water zones as well as the deeper alluvial aquifer may be warranted.

- Additional subsurface soil sampling should be conducted to better define the contamination plume in subsurface soil near the former dry cleaner. The main source plume has not been delineated to the east. There is a residence located across the street to the east of the former dry cleaner. An evaluation of the potential for vapor intrusion in the adjacent residence should be considered.

- Additional DPT subsurface investigation should be conducted at the locations of two former dry cleaners (former Rockwell Cleaners and Bud's Cleaner) to verify that potential contamination source areas are not contributing to the contamination in the City municipal wells.

7.0 REFERENCES

EPA, 2018. EPA *Regional Screening Level (RSL) Summary Table (TR+1E-06; HQ=0.1).* November 2018.

TechLaw, 2018. *Sampling QA/QC Work Plan, Multi-Media Sampling - Removal Site Evaluation, Paden City Site Assessment,* prepared by Techlaw, Inc., Wheeling, WV. October 18, 2018.

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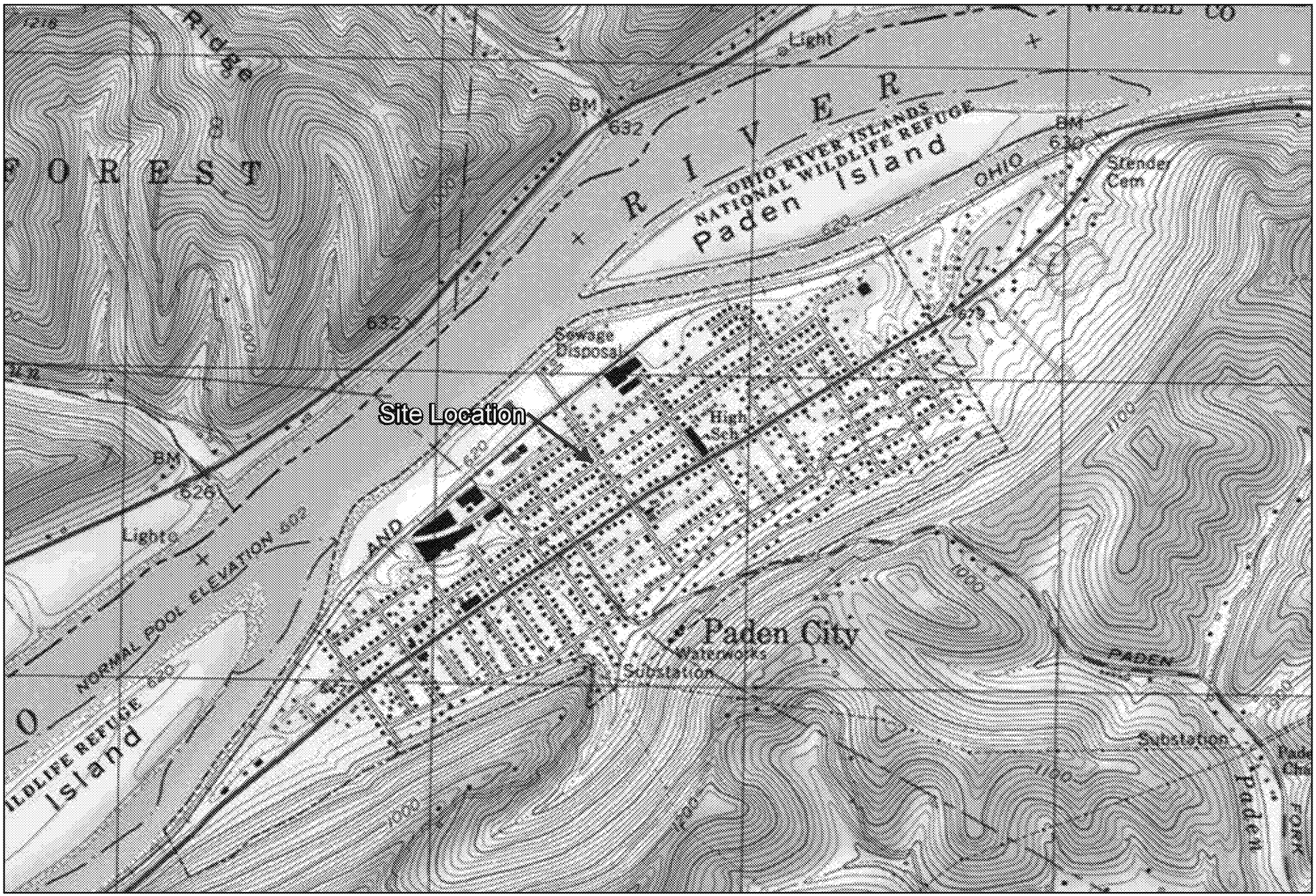
FIGURES



TechLaw
Contract No. EP-S3-15-03
TDD: T501-18-01-001

Figure 1: Site Location Map
Paden City Site Assessment
Paden City, WV

0 500 1,000 2,000 Feet
NAD 1983 - State Plane West Virginia North (ft)

TechLaw
Contract No. EP-S3-15-03
TDD: T501-18-01-001

Figure 2: Investigation Area Map
Paden City Site Assessment
Paden City, WV

N W E S
0 145 290 580 Feet
NAD 1983 - State Plane West Virginia North (ft)

TechLaw
Contract No. EP-S3-15-03
TDD: T501-18-01-001

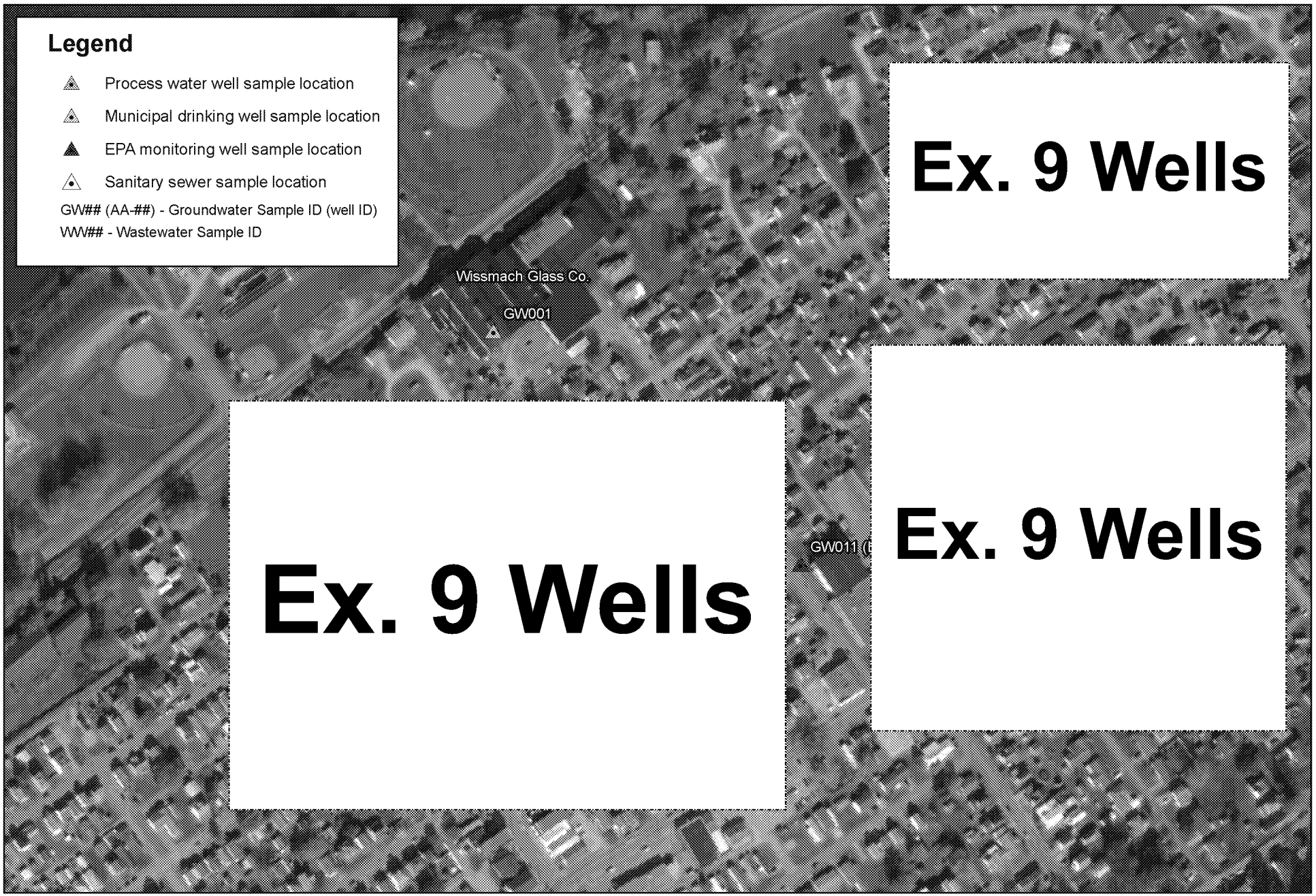
Figure 3: Subsurface Soil Sample Location Map
Paden City Site Assessment
Paden City, WV

N W E S
0 15 30 60 Feet
NAD 1983 - State Plane West Virginia North (ft)

TechLaw
Contract No. EP-S3-15-03
TDD: T501-18-01-001

Figure 4: EPA Well Location Map
Paden City Site Assessment
Paden City, WV

N W E S
0 90 180 360 Feet
NAD 1983 - State Plane West Virginia North (ft)



TechLaw
Contract No. EP-S3-15-03
TDD: T501-18-01-001

Figure 5: Groundwater and Sanitary Sewer Sample Location Map
Paden City Site Assessment
Paden City, WV

N W E S
0 115 230 460 Feet
NAD 1983 - State Plane West Virginia North (ft)

TABLES

Table 1 - Borehole/Subsurface Soil Sample Descriptions and PCE Results
Paden City Site Assessment
November 26-30, 2018

Borehole No.	Location Description	Total Borehole depth (ft bgs)	Sample ID	CLP Sample No.	PCE Result (ug/kg)	PID (PPM)	Sample Depth (ft)	Comments
SB-01	Northwestern corner of former dry cleaner property.	16'	SB01-1	C0AA0	77	0	9.3-9.5'	Sample collected at top of saturated zone. Soil type - wet, poorly graded sand and gravel, trace to little silt.
SB-02	North/northwestern side of former dry cleaner property.	16'	SB02-1	C0AA1	140	0	14.5-14.7'	Sample collected at top of saturated zone. Soil type - wet, moderately graded sand and gravel, some fines.
SB-03	Near northeastern corner of former dry cleaner property.	16'	SB03-1	C0AA2	12,000	0	13.5-14.2'	Sample collected in saturated zone. Soil type - wet, poorly graded silt and sand, little to no fines. Soil interval appeared more native/natural.
SB-04	North side of former dry cleaner building in corner where smaller and larger sections of the buliding interconnect.	16'	SB04-1	C0AA3	7,200	0	15.3-15.5'	Sample collected near the bottom of the borehole. Soil type - moist, poorly graded medium sand with some silt, little fines.
SB-05	East side of the dry cleaner building. Just north of garage door opening.	16'	SB05-1	C0AA4	19,000,000 (1.9%)	59	14.3-14.6'	Sample collected at depth interval with highest PID reading. Soil type - moist, moderately graded sand and gravel, sand medium-coarse.
SB-06	East side of former dry cleaner building. South side of garage door opening.	16'	SB06-1	C0AA9	2,200	43.7	4.0-8.0'	Core liner was split and soil from core was placed into ziplock bag. Sample collected direct from ziplock bag. Soil type - moist, poorly graded sand and gravel, coarse sand with no fines.
SB-06	East side of former dry cleaner building. South side of garage door opening.	16'	SB06-2	C0AB8	180,000	1.6	13.0-13.3'	Sample collected from depth interval where highest PID readings were observed. Soil type - moist, poorly graded sand and gravel, coarse sand.
SB-07	East side of former dry cleaner building. South of SB-06.	16'	SB07-1	C0AA5	8,500	6.6-8.7	4.0-4.3'	Sample collected from depth with highest PID readings. Soil type - wet, well-graded sand and gravel, little silt.
SB-08	West side of former dry cleaner building near hole in building wall.	16'	SB08-1	C0AA6	510	0	13.5-14.0'	Sample collected from near bottom of borehole. Soil type - moist, poorly graded sand and gravel.
SB-08	West side of former dry cleaner building near hole in building wall.	16'	SB08-2	C0AB9	3,800	0	13.5-14.0'	Duplicate sample of SB08-1.
SB-09	Northwest of former dry cleaner building near sanitary manhole/sewer line in Wildcat Drive.	12'	SB09-1	C0AA7	ND	0	9.6-9.9	Soil type - moist, poorly graded sand and gravel, sand coarse.

Table 1 - Borehole/Subsurface Soil Sample Descriptions and PCE Results
Paden City Site Assessment
November 26-30, 2018

SB-10	Northeast of former dry cleaner building in gravel alleyway along sanitary sewer line.	12'	SB10-1	C0AA8	2,200	0	10.4-10.8'	Sample collected above saturated zone. Soil type - saturated, poorly graded silt with some gravel, some sand.
SB-11	Near eastern end of gravel alleyway along sanitary sewer line. Near intersection with Maurice st.	12'	SB11-1	C0AB0	ND	0	9.2-9.4'	Soil type - moist, moderately graded sand with little gravel, sand medium-coarse.

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Table 2 - EPA Monitoring Well Construction/Sampling Depths
Paden City Site Assessment
Paden City, Wetzel Co., WV

Sample Location	Well Depth (ft bgs)	Well Depth (ft TOC)	Screen Interval (ft TOC)	DTW[1] (ft TOC)	Sampling depth (ft TOC)[2]	Sampling Method	Comments
EPA01	21	20.77	10.77-20.77	11.71	18.3	Low-Flow	
EPA02	43	42.58	32.58-42.58	34.75	39.0	Low-Flow	
EPA03	21.5	21.42	11.42-21.42	19.03	19-21.4	bailer	Water column and recharge rate insufficient for low flow.
EPA04	59	58.38	43.38-58.38	50	55.0	Low-Flow	
City Well #4[3]	unknown	unknown	unknown	40.85	70.0	Low-Flow	

Notes:

1. DTW measured on 11/30/18, except for city well #4, measured on 12/11/18.
2. Sampling depth is the sampling pump intake depth for the December 11-12 sampling event.
3. Pump was removed from the well and the sample was collected using low flow procedures.

Key:

bgs = below ground surface
ft - feet
N/A = not applicable
TOC = Top of casing

Table 3 - Groundwater, Sanitary Sewer, and IDW Sample Descriptions
Paden City Site Assessment
December 11-12, 2018

Location	Location Description	Sample ID	CLP Sample No.	Comments
Wissmach Glass co.	Spout at cooling tank located inside Wissmach Glass Company building.	GW001	C0AC2	Spout from which sample was collected is used for a cooling tank used in the glass making process. Sample was collected directly from spout.
Municipal Well #3	City Well #3 located at the city hall building.	GW003	C0AC4	Collected from spigot at well head after purging for approximately 6 minutes.
Municipal Well #4	Inside small building located adjacent to the city water treatment facility.	GW005	C0AC6	The pump was removed from the well. Sample was collected using a bladder pump and low-flow protocols. Bladderpump was set at 70 feet.
Influent (Municipal Well #5)	Spigot/faucet located inside water treatment facility building.	GW006	C0AC7	System influent with only city well #5 running. No sampling spigot available at Well #5 well head.
WTP Effluent/ finished water	Spigot/faucet located inside water treatment facility building.	GW007	C0AC8	WTP effluent/finished (treated) water. Duplicate of GW012.
WTP Effluent/ finished water	Spigot/faucet located inside water treatment facility building.	GW012	C0AC9	Duplicate of GW007. WTP effluent/finished (treated) water.
EPA01	Background monitoring well located in Sturgeon Alley, southeast of former dry cleaning facility.	GW008	C0AD0	Sample collected using low flow sampling protocols.
EPA02	Monitoring well located on east side of Paden City High School practice football field. Northeast of former dry cleaning facility.	GW009	C0AD1	Sample collected using low flow sampling protocols.
EPA03	Monitoring well located at the edge of road on the North side of the former dry cleaning facility.	GW010	C0AD2	Collected using a bailer after bailing well dry and allowing time to recharge. Duplicate of GW013.
EPA03	Monitoring well located at the edge of road on the North side of the former dry cleaning facility.	GW013	C0AD4	Duplicate of GW010.

Table 3 - Groundwater, Sanitary Sewer, and IDW Sample Descriptions
Paden City Site Assessment
December 11-12, 2018

Location	Location Description	Sample ID	CLP Sample No.	Comments
EPA04	Monitoring well located in dirt road adjacent to Paden City High School. Located west of the former dry cleaning facility	GW011	C0AD3	Sample collected using low flow sampling protocols.
Sanitary sewer manhole #1	Sanitary sewer manhole located west of the former dry cleaner facility, on Wildcat Drive.	WW01	C0AD9	Waste water sample collected from sanitary sewer manhole.
Sanitary sewer manhole #2	Sanitary sewer manhole located in Maurice Street. Located ENE of the former dry cleaner facility.	WW02	C0AE0	Waste water sample collected from sanitary sewer manhole. Water flow direction in manhole was toward former dry cleaner (west) and northward in sewer line in Maurice Street. Appears to normally flow north.
IDW water	IDW water collected from Drum D08	IDW-W-01	C0AE1/ MC0AE1	Purge water from development and sampling of wells.
IDW soil	IDW soil collected from Drum D01	IDW-S-01	C0AB5/ MC0AB5	Drill cuttings from DPT cores collected around former dry cleaner building and from installation of well EPA03.
IDW soil	IDW soil collected from Drum D03	IDW-S-02	C0AE4/ MC0AE4	Drill cuttings from installation of well EPA02.

Table 4 - Summary of Analytical Results for VOCs Detected in Subsurface Soil
Paden City Site Assessment
November 26-27, 2018

		Sample ID:	SB01-1		SB02-1		SB03-1		SB04-1		SB05-1		SB06-1		SB06-2		SB07-1		SB08-1		SB08-2		SB09-1	
		CLP Sample No.	C0AA0		C0AA1		C0AA2		C0AA3		C0AA4		C0AA9		C0AB8		C0AA5		C0AA6		C0AB9		C0AA7	
Shading:		Sample Type:	Field sample		Field sample		Field sample		Field sample		Field sample		Field sample		Field sample		Field sample		Duplicate of SB08-2		Duplicate of SB08-1		Field sample	
Yellow - Result ≥ RSL Res Soil (THQ=0.1)		Sample Date:	11/26/2018		11/26/2018		11/26/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018	
Brown - Result ≥ RSL Indus Soil (THQ=0.1)		Matrix:	soil		soil		soil		soil		soil		soil		soil		soil		soil		soil		soil	
		Units:	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Parameter	RSL_Indus ug/kg	RSL_Res ug/kg	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1-Trichloroethane	3,600,000	810,000	ND		ND		ND		1.2	J	ND		ND		ND		1.7	J	ND		ND		ND	
cis-1,2-Dichloroethene	230,000	16,000	ND		ND		ND		ND		ND		ND		ND		3	J	ND		ND		ND	
Toluene	4,700,000	490,000	ND		ND		ND		0.94	J	ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	1,900	410	ND		ND		ND		3	J	ND		ND		ND		1.7	J	ND		ND		ND	
Tetrachloroethene	39,000	8,100	77		140		12,000		7,200		19,000,000		2,200		180,000		8,500		510		3,800		ND	

Abbreviations:
CLP = Contract Laboratory Program
ID = Identifier
ND = Not detected
Q = Qualifier
RSL_Indus = EPA Regional Screening Level - inustrial soil
RSL_Res = EPA Regional Screening Level -residential soil

Data Validation Qualifiers:
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Table 4 - Summary of Analytical Results for VOCs Detected in Subsurface Soil
Paden City Site Assessment
November 26-27, 2018

		Sample ID:	SB10-1		SB11-1	
		CLP Sample No.	C0AA8		C0AB0	
Shading		Sample Type:	Field sample		Field sample	
Yellow - Result ≥ RSL Res Soil (THQ=0.1)		Sample Date:	11/27/2018		11/27/2018	
Brown - Result ≥ RSL Indus Soil (THQ=0.1)		Matrix:	soil		soil	
		Units:	ug/kg		ug/kg	
Parameter	**RSL_Indus ug/kg**	**RSL_Res ug/kg**	**Result**	**Q**	**Result**	**Q**
1,1,1-Trichloroethane	3,600,000	810,000	ND		ND	
cis-1,2-Dichloroethene	230,000	16,000	ND		ND	
Toluene	4,700,000	490,000	ND		ND	
Trichloroethene	1,900	410	ND		ND	
Tetrachloroethene	39,000	8,100	2,200		ND	

Abbreviations:
CLP = Contract Laboratory Program
ID = Identifier
ND = Not detected
Q = Qualifier

Data Validation Qualifiers:
J = The result is an estimated quantity. The associated nu

Table 5 - Summary of Analytical Results for VOCs Detected in Groundwater and Sewer Samples
Paden City Site Assessment
December 11-12, 2018

Shading
Brown - Result ≥ RSL tap water (THQ=0.1)
Yellow - Result ≥ MCL
Gray - Result ≥ RSL tap water and MCL

		Sample ID:	GW001		GW003		GW005		GW006		GW007		GW008		GW009		GW010		GW011		GW012		GW013	
		Sample Location:	Wissmach Glass		Well #3		Well #4		Influent/ Well #5		Effluent		EPA01		EPA02		EPA03		EPA04		Effluent		EPA03	
		CLP Sample No.:	C0AC2		C0AC4		C0AC6		C0AC7		C0AC8		C0AD0		C0AD1		C0AD2		C0AD3		C0AC9		C0AD4	
		Sample Type	Field sample		Field sample		Field sample		Field sample		Duplicate of GW012		Field sample		Field sample		Duplicate of GW0013		Field sample		Duplicate of GW007		Duplicate of GW0010	
		Sample Date:	12/11/2018		12/11/2018		12/11/2018		12/11/2018		12/11/2018		12/11/2018		12/12/2018		12/11/2018		12/12/2018		12/11/2018		12/11/2018	
		Matrix:	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater	
		Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Parameter	**MCL**	**RSL tap water ug/L**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
2-Butanone (MEK)	N/A	560	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acetone	N/A	1,400	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	N/A	81	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.28	J	ND	
Methy tert-butyl ether	N/A	14	ND		ND		ND		ND		ND		0.39	J	ND		ND		ND		ND		ND	
Chloroform	80	0.22	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	1,000	110	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Tetrachloroethene	5	4.1	12		15		0.25	J	21	J	7.2	J-	4.6	J-	ND		4,700	J-	0.19	J	7.2	J-	4,500	J-
Dibromochloromethane	80	0.87	ND		ND		ND		ND		0.47	J	ND		ND		ND		ND		0.45	J	ND	

Abbreviations:

CLP = Contract Laboratory Program
ID = Identifier
ND = Not detected
Q = Qualifier

Data Validation Qualifiers:

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased low.

Table 5 - Summary of Analytical Results for VOCs Detected in Groundwater and Sewer Samples
Paden City Site Assessment
December 11-12, 2018

Shading:
Brown - Result ≥ RSL tap water (THQ=0.1)
Yellow - Result ≥ MCL
Gray - Result ≥ RSL tap water and MCL

		Sample ID:	WW01		WW02		TB03		FB01		RB03		RB04	
		Sample Location:	sewer manhole #1		sewer manhole #2		QC		QC		QC		QC	
		CLP Sample No.:	C0AD9		C0AE0		C0AD5		C0AD8		C0AD7		C0AE5	
		Sample Type	Field sample		Field sample		Trip blank		Field Blank		Rinsate		Rinsate	
		Sample Date:	12/11/2018		12/11/2018		12/10/2018		12/12/2018		12/11/2018		12/12/2018	
		Matrix:	Waste water		Waste water		Water		Water		Water		Water	
		Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Parameter	**MCL**	**RSL tap water ug/L**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
2-Butanone (MEK)	N/A	560	ND		ND		4.7	J	3.0	J	2.7	J	ND	
Acetone	N/A	1,400	ND		ND		4.4	J	ND		ND		ND	
Carbon disulfide	N/A	81	ND		ND		ND		ND		ND		ND	
Methy tert-butyl ether	N/A	14	ND		ND		ND		ND		ND		ND	
Chloroform	80	0.22	ND		ND		1.0	J-	0.85	J-	0.7	J-	0.53	J-
Toluene	1,000	110	3.5	J-	ND		0.22	J	0.1	J	0.091	J	ND	
Tetrachloroethene	5	4.1	ND		1.5	J	ND		ND		ND		ND	
Dibromochloromethane	80	0.87	ND		ND		ND		ND		ND		ND	

Abbreviations:

CLP = Contract Laboratory Program
ID = Identifier
ND = Not detected
Q = Qualifier

Data Validation Qualifiers:

J = The result is an estimated quantity. The associated nume
J+ = The result is an estimated quantity, but the result may be

ATTACHMENT 1

Date:	November 26, 2018	**Location:** SB01	**Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.; jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.2 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0			0.0'								
			0.1 0.2		Top Soil, Br, roots, grass, soft moist. silt some fine sand	ML	M	-	N		IMG 5387 JC
	0.0		0.3 0.4 0.5 0.6 0.7 0.8		Gravel, some sand, some silt, moist. loose, dk. Br.	GM	M	M	N		
1	0.0		0.9 1.0'		Gravel & sand, some silt & clay gravel is rounded	GM	M	W	L		
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
2	0.0		2.0' 2.1 2.2								
			2.3 2.4 2.5 2.6 2.7 2.8 2.9		No Recovery						
3			3.0' 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
4			4.0' 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 26, 2018	**Location:**	SB01 **Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample interval	Core Interval	Geology Profile	Description Recovery: 2.7 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand & gravel, little more sand near bottom, gravel rounded, moist, yellow brown, firm	GW	M	W	N		5392 JC
5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
6	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7		Wet, same	GW	W	W	N		
7			3.0'		No Recovery						
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
8			4.0'								
			4 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9		Note: 7.5' water entered hole during 8'-12' push. Rod at 12' water come to 7.5' Piston ~~used~~ point used at 12'-16'						
			5.0'								

Date:	November 26, 2018	**Location:** SB01	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'		CMF Sand & gravel, gravel ≤ 1" moist, loose, yellow Brown	GW	M	W	N		1413 0558 BE
	0.0										
9	0.0		3.0'		Higher % of fine sand holding water						
	0.0	1435 SB01-1			Sand & gravel, trace to little silt, very soft, loose, Brownish yellow						5393 JC
10	0.0		2.0'		Saturated	GP	S	M	P	N	
	0.0										
11	0.0		3.0'		must saturated, highest % of fine sand						
	0.0				Sand & gravel	GW	W	W	N		
12	0.0		4.0'								
			5.0'		Note: Driller having difficulty At 12-16' interval, caving sands & gravel.						

Date:	November 26, 2018	**Location:** SB01	**Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample interval	Core Interval	Geology Profile	Description Recovery: - / - ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'		BAGGED SAMPLE 12'-14'						
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'		Sand & gravel - gravel ≤ 1.5" Sand coarse, medium, fine, trace silt loose, yellow brown	GW	W	W	N		0561 BE
13	0.0										
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'								
14	0.0										
	0.3		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'		BAGGED Sample 14'-16' Sand, some gravel, sand - CMF, gravel ≤ 2", saturated	GP	S	M	N		0562 BE
15											
	—		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
16											
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'		Note: Sand getting beat liner and core tube. Liner splitting. Multiple attempts by driller failed						

Date:	November 26, 2018	**Location:** SB02	**Interval:** 0'-4'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Recovery: 2.9 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Topsoil, roots, silt w/some sand gravel, moist, soft/loose, brick frag. Dk Brown.	ML	M	N	N		5394 JC
1	0.0		1.0'		Dark yellow brown gravel, sand, silt, trace of roots, non plastic, moist, soft/loose.	SM	M	P	N		
2	0.0		2.0'		Sand & gravel, dk yellow brown, gravel ≤ 1.25", subrounded, coarse sand 1" layers of silty sand, moist, loose	GM	M	M	N		
3	0.0		3.0'		Sand & gravel gravel ≤ 1", yellowish brown, subrounded gravel, moist, loose	SP	M	P	N		
4			4.0'		No Recovery						
			5.0'								

Date:	November 26, 2018	**Location:** SB02	**Interval:** 4'-8'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'		Coarse sand, some gravel, moist loose, Br.	SP	M	P	N		5396 JC
	0.0				Sand & gravel, some silt, yellowish Br. moist, soft, gravel ≤ 1.25", rounded	GM	M	P	N		
5	0.0		1.0'								
	0.0										
					Black organic layer	OL	M	P	N		
6	0.0		2.0'								
					Wet, coarse sand & gravel	SP	W	P	N		
					No Recovery						
7			3.0'								
8			4.0'								
			5.0'								

Date:	November 26, 2018	**Location:** SB62	**Interval:** 8'-12'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 3.6 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'		Sand & gravel, yellowish Br. gravel ≤ 1", soft, coarse sand, moist	GP	M	P	N		0563 BE
	0.0										
9	0.0		1.0'		Sand & gravel, yellowish Br., small gravel, soft, some silt, coarse sand	GM	M	M	N		
	0.0										
10	0.0		2.0'		Black organic layer, coarse sand	OL	M	P	N		
	0.0				Sand & silt, some gravel, yellowish Br., moist	SM	M	M	N		
					Black organic layer some gravel	OL	M	P	N		
11	0.0		3.0'		Sand & silt, some gravel, yellowish Br., moist	SM	M	M	N		
	0.0										
12			4.0'		No Recovery						
			5.0'								

Date:	November 26, 2018	**Location:**	SB02 **Interval:** 12-16'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Recovery: 4 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'		Sand & gravel, yellowish Br. gravel ≤.5, moist, soft	SM	M	M	N		0565 BE
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
13	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
14	0.0		2.0'								
	0.0	SB02-1	2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9		Sand & gravel, yellowish br. gravel ≤.5, some fines, wet, soft	SM	W	M	N		
15	0.0		3.0'								
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
16	0.0		4.0'		Dk. Br. sand & gravel, moist, soft	SP	M	P	N		
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 26, 2018	**Location:**	SB03 **Interval:** 0-4'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Topsoil, Dk Br., silt, some sand roots, grass, moist, soft	OL	M	.	L		5397 JC
1	0.0 0.0		1.0'		Silty sand & gravel, yellowish br. Subangular gravel ≤ 3/4", soft - loose moist	GM	M	W	N		
2	0.0 0.0		2.0'		Wet						
3			3.0'		No Recovery						
4			4.0'								
			5.0'								

Date:	November 26, 2018	**Location:**	SB03 **Interval:** 4'-8'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.; jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.9 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'		Gravel, sand, coarse, Brown, gravel ≤ 1" some silt, moist, soft	GP	M	P	N		
	0.0		0.5								
5	0.0		1.0'								
	0.0		1.5								
			2.0		Sand & gravel ≤ .5", little to no fines	SP	M	P	N		
6			2.0'								
			2.5		No Recovery						
7			3.0'								
			3.5								
8			4.0'								
			4.5								
			5.0'								

Date:	November 26, 2018	**Location:** SBD3	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6		Silty sandy gravel, moist	GM	M	M	L		5398 JC
9	0.0		0.7 0.8 0.9 1.0'		Sand & gravel saturated	GW	W	W	N		5399 JC
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9		flowing sand, very fine - medium sand, silt & gravel, saturated	GM	S	P	N		
10	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
11	0.0		3.0'								
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9		Medium - Coarse Sand, little gravel, wet	SP	W	P	N		
12	0.0		4.0'								
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 26, 2018	**Location:**	SB03 **Interval:** 12-16'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'		Silt and sand, soft, wet, little to no fines, Br.	SM	W	P	N		0571 BE
	0.0		0.5								
13	0.0		1.0'								
	0.0	SB03-1	1.5								
14	0.0		2.0'		Sand, silt, and some gravel, Br., soft wet	GP	W	P	N		
	0.0		2.5								
15	0.0		3.0'								
	0.0		3.5								
16	0.0		4.0'								
			4.5								
			5.0'								

Date:	November 27, 2018	**Location:**	SB04 **Interval:** 0 - 4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Recovery: 2.8 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Topsoil, some gravel, coarse sand, dk. Br., loose, moist	SM	M	M	N		5402 JC
					Sand w/ some gravel, Br., gravel ≤ 3/4" angular, moist	GM	M	M	N		
1	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9		Dark Br. sand & silt, some gravel. red brick frag., gravel rounded, moist	SP	M	P	N		
2	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8								
3	0.0		2.9 3.0'		No Recovery						
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
4			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:** SB04	**Interval:** 4-8'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.2 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6		Sand & gravel, wet, LSE	GW	W	W	N		5403 SC
			0.7		Black organic layer, frag/weathered	OL	M	-	N		
5	0.0		0.8 0.9 1.0'		Sand & gravel, moist, LSE						
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'		Sand & gravel, little silt, LSE moist	GM	M	W	N		
6	0.0										
			2.1 2.2								
7	—		2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'		No Recovery						
8	—		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:**	SB04 **Interval:** 8-12'
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.7 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand & gravel, coarse, gravel rounded some silt, gravel ≤ .5", soft, moist	SM	M	M	N		0572 BE
9	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7		Sand & gravel, light Br., medium sand, saturated, soft, gravel ≤ 1", some silt	SM	M	P	N		
10			1.8 1.9 2.0'		No Recovery						
11			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
12			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:**	SB04 **Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'		Gravel & sand, river gravel, coarse sand moist, loose, Br.	GM	M	M	N		0574 BE
	0.0		0.5		Silt & sand, some gravel, gravel rounded, Br., saturated, soft/loose	ML	W	P	N	—	—
13	0.0		1.0'								
	0.0		1.5			—	—	—	—	—	—
14	0.0		2.0'								
	0.0		2.5			—	—	—	—	—	—
15	0.0		3.0'		Gravel & sand, gravel rounded, saturated, coarse sand, gravel ≤ .5"	GM	W	M	N		
	0.0	SB04-1	3.5		Medium sand, some silt, soft, moist light Br., little fines	SP	M	P	N	—	—
16	0.0		4.0'								
	—		4.5			—	—	—	—	—	—
			5.0'								

Date:	November 27, 2018	**Location:** SB05	**Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.7 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5		Topsoil, Silt and some little gravel Dk. Br.						5406 JC
			0.6 0.7 0.8		Loose sand, some gravel, moist trace silt, yellow Br.	SP	M	P	N		
1	0.0		0.9 1.0'		Silt, little gravel, little sand, moist	ML	M	P	N		
	0.0		1.1 1.2 1.3 1.4 1.5		Silt, some fine sand, Dk. Br., 1/8" thread moist, soft	ML	M	N	L		
2	0.0		1.6 1.7 1.8 1.9 2.0'		Gravel, some sand, silt, little clay wet 1/16" thread	GM	W	W	L		
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7		Same as above, moist	GM	M	W	L		
3			2.8 2.9 3.0'		No Recovery						
4			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November , 2018	**Location:**	SB05 **Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Recovery: 2.4 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'		Wet, silt & sand, some gravel soft to loose	SM	W	P	L		
	0.0				Sand & gravel 50/50, wet, rock frags, organic frags., some silt.	GW	W	W	N		
5	0.0		1.0'								
	0.0				Sand & gravel, some silt, wet	~~GW~~ GM	W	W	L		
6	0.0		2.0'								
7			3.0'		No Recovery						
8			4.0'								
			5.0'								

Date:	November 27, 2018	**Location:** SB05	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.2 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'								
			0.1 0.2 0.3		Sand & gravel, Br., medium-coarse sand, gravel round, ≤ .5", little silt moist, loose/soft	SM	M	M	N		0575 BE
	0.0		0.4 0.5 0.6 0.7 0.8		No Recovery						
9	0.0		1.0'								
			1.1 1.2 1.3 1.4 1.5 1.6 1.7		Sand & gravel, medium-coarse sand, gravel round, gravel ≤ .2", moist, loose Brown	SM	M	M	N		
	0.0		1.8 1.9		Silty Sand, Dk. Black/Br., saturated, soft, medium fine sand, little gravel	SM	W	P	N		
10			2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9		No Recovery						
11			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
12			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:**	SB05 **Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'		Sand & silt, medium sand, some gravel, rounded, very saturated, gravel ≤1", loose/soupy, light Br.	SM	W	P	N		0576 BC
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
13	1.8		1.0'								
	5.6		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
14	35.6		2.0'								
	59.2	SB05-1	2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9		Sand & gravel, light Br, round gravel loose, medium coarse, sand moist	SM	M	M	N		
15	7.2		3.0'								
	8.6		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9		medium sand, little to no silt, light Br. loose, moist.	SP	M	P	N		
16	0.0		4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:** SB06	**Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.3 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	7.3		0.0'		Fill. Topsoil, grass & gravel	GW	M	M	N		
	2.7		0.5		Intervals of gravel & sand, silty sandy gravel, rock frags, coal frags.	SW	M	M	N		
1	4.0		1.0'								
	6.8		1.5			GM	M	P	L		
2	43.7		2.0'		Rock frag - White SS						
			2.5		Sandy Gravel	GP	M	P	N		
3			3.0'		No Recovery — Core is fill						
4			4.0'								
			5.0'								

Date:	November 27, 2018	**Location:**	SB06 **Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: - / - ft Bag Sample	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
	52.0	SB06-1	0.0' 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'		Sand & Gravel, gravel round, ≤1" Sand coarse, no fines, moist, loose Brown	GP	M	P	N		0577 BE
			1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:** SB06	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Recovery: 3.2 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	10.7		0.0'								
			0.1		Fill - entire core						5410 JC
			0.2								
			0.3		Sand & Gravel, moist	GW	M	M	N		
			0.4								
	25.3		0.5								
			0.6								
			0.7		Silt & Sand, little gravel, moist	SM	M	N	N		
			0.8								
9	10.6		0.9								
			1.0'								
			1.1								
			1.2		Coarse sand, little gravel, moist	SP	W	P	N		
			1.3								
			1.4								
	95.0		1.5		Rock frag., Eff. surface, but not en frag. LS or gray SS	–	M	–	–		
			1.6								
			1.7		Coarse Sand, some med. sand, little gravel, wet	SP	W	P	N		
			1.8								
10	9.7		1.9								
			2.0'								
			2.1								
			2.2								
			2.3		Organic, weathered, black, silt	OL	W	–	N		
			2.4								
	9.0		2.5		Gravel with Sand, 60/40, little silt saturated	GW	S	W	N		
			2.6								
			2.7								
			2.8								
			2.9								
11	23.4		3.0'								
			3.1								
			3.2		Coarse Sand, Blk, some gravel, Sat.	GP	S	P	N		
			3.3								
			3.4		No Recovery						
			3.5								
			3.6								
			3.7								
			3.8								
			3.9								
12			4.0'								
			4.1								
			4.2								
			4.3								
			4.4								
			4.5								
			4.6								
			4.7								
			4.8								
			4.9								
			5.0'								

Date:	November 27, 2018	**Location:**	SB06 **Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.5 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	5.5		0.0'		Gravel & Sand, gravel round, Br./gray soupy, saturated, little silt, coarse medium sand, gravel ≤ .5"	GP	W	P	N		0578 BE
	2.5										
13	1.6		1.0'								
	1.5	SB06-2			Sand & Gravel, coarse sand, gravel round moist, soft/loose, gravel ≤ 1"	SP	M	P	N		
14	2.6		2.0'								
	7.6				Sand, medium, little gravel, loose, moist light br.	SP	M	P	N		
15			3.0'		No Recovery						
16			4.0'								
			5.0'								

Date:	November 27, 2018	**Location:**	SB07 **Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.3 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7		Fill, moist, sand & gravel, coarse sand, gravel round ≤.5", loose, br.	SP	M	P	N		0580 BE
1	0.0		0.8 0.9 1.0'		Fill, dark br., sand, silt, gravel, round, medium to coarse sand, soft moist	SP	M	P	N		
	0.0		1.1 1.2 1.3 1.4 1.5								
2	0.0		1.6 1.7 1.8 1.9 2.0'		Fill, moist, sand & gravel, coarse sand gravel round ≤.5", br., loose.	SP	M	P	N		
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
3					No Recovery						
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
4											
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:** SB07	**Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	8.7	SB07-1 0421	0.0'		Sand & Gravel, wet, fill little silt.	GW	W	W	N		5413 JC
	6.6		0.5		Sampled 4-4.2						
5	3.1		1.0'		Organic silt & rock frags.						
	0.5										
6	0.9		2.0'								
7			3.0'		No Recovery						
8			4.0'								
			5.0'								

Date:	November 27, 2018	**Location:** SB07	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 3.5 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand, gravel, little silt, fill, moist. soft/loose, gravel ≤ .5", coarse sand light br.	SM	M	M	N		
9	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9		Sand & gravel, saturated, silt, fill, loose soupy, gravel ≤ .5, sand medium-coarse	SP	M	P	N		
10	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
11	0.0		3.0'								
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9		No Recovery						
12			4.0'								
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:**	SB07 **Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity.	Color (Munsell)	Photo Nos.
12	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Same as above	SP	M	P	N		
13	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
14	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9		Same as above, moist	SP	M	P	N		
15	0.0		3.0'								
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
16	0.0		4.0'		medium sand, light br., loose, moist	SM	M	P	N		
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:**	SB08 **Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Crushed LS, fill - asphalt, dry	GW	D	W	N		5414 JC
	0.0		0.5								
1	0.0		1.0'								
	0.0		1.5								
2	0.0		2.0'		Gravel, sand & silt, fill, moist 70/25/5%	GM	M	M	N		
			2.5								
3			3.0'		No Recovery						
			3.5								
4			4.0'								
			4.5								
			5.0'								

Date:	November 27, 2018	**Location:** SB08	**Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Recovery: 3 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'		Gravel & sand, fill, medium - coarse sand grayish br., gravel round ≤.5", loose, moist	GP	M	P	N		0583 BE
5	0.0		1.1 1.2 1.3 1.4 1.5								
	0.0				Sandstone	—	—	—	—	—	
6	0.0		1.6 1.7 1.8 1.9 2.0'		Same as 0.0' - 1.4'	GP	M	P	N		
	0.0		2.1 2.2 2.3 2.4 2.5								
7			2.6 2.7 2.8 2.9 3.0'		Sand & little silt, some gravel, moist soft, light reddish brown	SM	M	M	N		
8	—		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'		No Recovery						
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:** SB08	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.3 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'		Sand & gravel, little silt, wet, loose	GW	W	W	N		5415 JC
	0.0										
					CM sand, some gravel, saturated	SP	S	P	N		
9	0.0		1.0'		Silty gravel, little sand, soupy, saturated	GM	S	P	N		
					CM sand, little gravel, sat	SP	S	P	N		
	0.0										
					Silty gravel, saturated, soup	GM	S	P	N		
10	0.0		2.0'		Rock frag.	-	-	-	-		
					Sand, medium, moist	SP	M	P	N		
	—				No Recovery						
11			3.0'								
	—										
12			4.0'								
	—										
			5.0'								

Date:	November 27, 2018	**Location:**	SB08 **Interval:** 12-16
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
12	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'		Sand & gravel, some silt, light br., gravel round, ≤.5" gravel, saturated, loose, coarse sand	SP	W	P	N		0584 BE
13	0.0										
	0.0	SB08-1/SB08-2	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'		Sand & gravel, grayish br., coarse sand, round gravel ≤.5", moist, loose/soft	SP	M	P	N		
14	0.0										
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'		Sand - medium, natural, little to no fines, loose/soft, moist, light yellowish brown	SP	M	P	N		
15	0.0										
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
16	0.0										
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:**	SB09 **Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0			0.0'								
			0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8		Asphalt, loose, black/gray <.25" moist	GP	M	P	N		0585 BE
1			0.9 1.0'		Sand & gravel, loose, dk. grayish br. medium - coarse sand, gravel ≤.5, moist	SM	M	M	N		
2			1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'								
3			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'		No Recovery						
4			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:** SB09	**Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.9 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'		Fill, Gravel, some sand, little silt loose, moist.	GM	M	M	N		5416 JC
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
5	0.0		1.0'		Gravel, some sand, trace silt, wet, loose	GW	W	W	N		
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
6	0.0		2.0'		No Recovery						
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
7			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
8			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:** SB09	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.I. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 4 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'		Sand & gravel, grayish brown, coarse sand gravel ≤.5", loose, moist, round gravel	SP	M	P	N		0586 BE
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
9	0.0		1.0'								
	0.0	SB09-1	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
10	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9		Sand & Gravel, some silt, yellowish brown, coarse sand, saturated, soupy loose	SP	W	P	N		
11	0.0		3.0'								
	0.0		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
12	0.0		4.0'								
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:** SB10	**Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.3 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Fill - crushed limestone, some sand, some silt, soft - loose, moist	GW	M	W	N		5417 JC
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'								
1	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'								
	0.0				Fill - silt, some clay, sand & gravel	ML	M	P	L		
2	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'		1/16" ribbon						
					No Recovery						
3			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
4			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 27, 2018	**Location:** SB1D	**Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Recovery: 1.9 / 4 ft

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'								
	0.0		0.1, 0.2, 0.3, 0.4, 0.5		Sand & gravel, grayish, brown, medium-coarse, gravel ≤0.5", loose/moist	SP	M	P	N		0587 BE
			0.6, 0.7		sandy silty clay, light br, soft, moist	ML	M	P	N		
5	0.0		0.8, 0.9, 1.0'		Same as 0.0'-0.5'	SP	M	P	N		
	0.0		1.1, 1.2, 1.3, 1.4, 1.5								
			1.6		rock frag.						
6	0.0		1.7, 1.8, 1.9, 2.0'		Same as 0.0'-0.5'	SP	M	P	N		
7			2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0'		No Recovery						
8			3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0'								
			4, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0'								

Date:	November 27, 2018	**Location:** SB10	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 3.3 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8			0.0'		Gravel & sand, sand coarse-medium trace silt, gravel subrounded, wet, 40/60% gravel ≤ 1", loose	SW	W	M	N		5418 JC
9			1.0'		Sandy gravel 70/30% G/S, wet loose	GW	W	W	N		
10			2.0'		Med./fine/coarse sand, little gravel gravel ≤ 1", round, wet, loose	SW	W	W	N		
					Sand gravel, little silt, loose, wet 50/50%	SP	W	P	N		
11		SB10-1 10.4-10.8	3.0'		organic	OL	W	-	N		
					Sand & gravel. 60/40%, trace silt	SP	W	P	N		
					Silt w/ some gravel dk. br., some sand some sand, soft, saturated 70/10/20%	ML	S	-	N		
					Silty sand & gravel, saturated 50/25/25%	GM	S	M	N		
12			4.0'		No Recovery						
			5.0'								

Date:	November 27, 2018	**Location:** SB11	**Interval:** 0-4
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.7 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Sand & gravel, dark br., gravel ≤ .5" medium to fine sand, loose, moist light brown	SP	M	P	N		0589 BE
	0.0										
1	0.0		1.0'								
	0.0										
2	0.0		2.0'		Sand & gravel, gravel ≤ .5", medium sand light brown, soft/loose, moist	SP	M	P	N		
	0.0										
3			3.0'		No Recovery						
4			4.0'								
			5.0'								

Date:	November 27, 2018	**Location:** SB11	**Interval:** 4-8
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.8 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
4	0.0		0.0'		Sand & gravel, little silt, gravel ≤ 1" soft/loose, moist, some clay	SP	M	P	N		0591 BE
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
6	0.0		2.0'								
	0.0		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8								
7			2.9 3.0'		No Recovery						
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
8			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 27, 2018	**Location:** SB11	**Interval:** 8-12
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/bc
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2.1 / 4 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8	0.0		0.0'		Gravel w/sand, moist 60/40% G/S	GP	M	P	N		5420
			0.3		Gravel, little sand, 80/20%	GP	M	P	N		
	0.0		0.5		Sand, med-coarse, little gravel, subround moist, loose,	SP	M	P	N		
9	0.0		1.0'		Sand & gravel, 50/50%, gravel ≤ 1" loose, moist	GW	M	M	N		
		SB11-1	1.2		Sand, coarse-med., little gravel, loose, moist	SW	M	M	N		
	0.0		1.5		Sand, coarse-med., some gravel, loose moist	SW	M	P	N		
10	0.0		2.0'								
11			3.0'		No Recovery						
12			4.0'								
			5.0'								

Background Well

Date:	November 29, 2018	**Location:** EPA01	**Interval:** 0-2
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Topsoil, dark br., gravel ≤ 1", loose moist	GP	M	P	N		0592 DE
	0.0										
1	0.0		1.0'		Sandy silty clay, moist, semi-frozen, soft/firm, little gravel	ML	M	P	N		
	0.0										
2	0.0		2.0'								
			3.0'								
			4.0'								
			5.0'								

Date:	November 29, 2018	**Location:**	EPAD1 **Interval:** 3.5-5.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC: 1, 1, 2, 3		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
3.5	0.0		0.0'		Same as above, less gravel, more fine sand/silt	ML	M	P	M		0593
	0.0		0.5								
4.5	0.0		1.0'								
	0.0		1.5								
5.5	0.0		2.0'								
			2.5								
			3.0'								
			3.5								
			4.0'								
			4.5								
			5.0'								

Date:	November 29, 2018	**Location:**	EPA01 **Interval:** 8.5 - 10.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 1,1,1,1		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8.5	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Coarse sand, little silt, br., most/saturated Some gravel ≤ .5", some fines.	SP	M	P	N		0594 BE
9.5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
10.5	0.0		2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 29, 2018	**Location:** EPA01	**Interval:** 13.5 - 15.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 1,1,1		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.9 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
13.5	0.0		0.0'								
			0.1		Same as previous core						0595 BE
			0.2								
			0.3								
			0.4		gravel & Sand, grayish br., gravel ≤ .25"	GP	W	P	N		
	0.0		0.5		loose, saturated, medium - coarse sand						
			0.6								
			0.7								
			0.8								
			0.9								
14.5	0.0		1.0'								
			1.1		No Recovery						
			1.2								
			1.3								
			1.4								
			1.5								
			1.6								
			1.7								
			1.8								
			1.9								
15.5			2.0'								
			2.1								
			2.2								
			2.3								
			2.4								
			2.5								
			2.6								
			2.7								
			2.8								
			2.9								
			3.0'								
			3.1								
			3.2								
			3.3								
			3.4								
			3.5								
			3.6								
			3.7								
			3.8								
			3.9								
			4.0'								
			4.1								
			4.2								
			4.3								
			4.4								
			4.5								
			4.6								
			4.7								
			4.8								
			4.9								
			5.0'								

Date:	November 29, 2018	**Location:** EPA01	**Interval:** 18.5 - 20.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = weight of hammer, 1, 3, 4		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
18.5	0.0		0.0'		Same as above						0596 BE
	0.0		0.5								
19.5			1.0'		Coarse sand, reddish br, moist, loose, some gravel, c, 25"	SP	M	P	N		
20.5			2.0'		No Recovery						
			3.0'								
			4.0'								
			5.0'								

Date:	November 29, 2018	**Location:** EPA02	**Interval:** 0.0 - 1.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 1,1,1,1		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.4 / 1.5 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'		Topsoil, Sandy silty clay, dk. brown, moist, soft	ML	M	P	M		0597 BE
	0.0		1.0'		No Recovery						
1.5			2.0'								
			3.0'								
			4.0'								
			5.0'								

Date:	November 29 , 2018	**Location:**	EPA02 **Interval:** 3.5 - 5.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 1, 2, 3, 3		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1 / 2 ft	USCS	Moisture	Grading	Plasticity.	Color (Munsell)	Photo Nos.
3.5	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand & gravel, some silt, coarse sand gravel ≤ 1", loose, moist, br.	SP	M	P	N		0598
4.5	0.0		1.0'								
			1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9		No Recovery						
5.5			2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 29, 2018	**Location:**	EPA02 **Interval:** 8.5 - 10.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = WOH, 2, 2, 2		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.9 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8.5	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand & gravel, light br., moist, loose gravel < .25", sand - coarse.	SP	M	P	N		
9.5	0.0		1.0'		No Recovery						
			1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
10.5			2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 29, 2018	**Location:**	EPA02 **Interval:** 13.5 - 15.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC: 4,4,6,4		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.4 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
13.5	0.0		0.0'		Same as above	SP	M	P	N		0601 BE
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'								
14.5	0.0		1.1 1.2 1.3 1.4								
	0.0		1.5 1.6 1.7 1.8 1.9 2.0'		No Recovery						
15.5			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 29, 2018	**Location:**	EPA02 **Interval:** 18.5 - 20.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC: 5,4,5,3		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.5 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
18.5	0.0		0.0'		Sand & gravel, coarse-medium sand, gravel ≤ 25", br., moist, loose	SP	M	P	N		0604 BE
	0.0		0.5								
			1.0'		No Recovery						
19.5											
			2.0'								
20.5											
			3.0'								
			4.0'								
			5.0'								

Date:	November 29, 2018	**Location:**	EPA02 **Interval:** 23.5-25.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 2.35.4		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.4 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
23.5	0.0		0.0'		Coarse sand w/ black wood-like material, loose, moist, little gravel ≤.25"	SP	M	P	N		0605
	0.0				Organic, woodlike, blk.	-	-	-	-		
					Same as 0.0'-0.3'	SP	M	P	N		
24.5	0.0		1.0'		Organic, woodlike, blk	-	-	-	-		
					Same as 0.0'-0.3'	SP	M	P	N		
25.5	—		2.0'		No Recovery	—	—	—	—	—	—
	—		3.0'			—	—	—	—	—	—
	—		4.0'			—	—	—	—	—	—
	—		5.0'			—	—	—	—	—	—

Date:	November 29, 2018	**Location:** EPA02	**Interval:** 28.5 - 30.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BL: 2, 3, 7, 6		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.7 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
28.5	0.0		0.0'		Sand - coarse, moist, no gravel, light br.	SP	M	P	N		0606 BE
	0.0				Silty sand, fine sand, brown/reddish soft/loose	SP	M	P	N		
29.5	0.0		1.0'		Sand - coarse, moist, loose, little gravel < .25", light br.	SP	M	P	N		
	0.0										
30.5			2.0'		No Recovery						
			3.0'		Note: Tape measure in photo 0606 is incorrect						
			4.0'								
			5.0'								

Date:	November 29, 2018	**Location:**	EPA02 **Interval:** 33.5-35.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 2, 2, 4, 6		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description (Recovery: 1.6 / 2 ft)	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
33.5	0.0		0.0'		Sand - medium-coarse, light br., loose moist, no gravel, appears natural	SP	M	P	N		0607 BE
	0.0										
34.5	0.0		1.0'		Sand - medium, light br., loose/soft saturated, little silt, natural	SM	W	P	N		
	0.0										
35.5	0.0		2.0'		No Recovery						
			3.0'								
			4.0'								
			5.0'								

Date:	November 29 , 2018	**Location:**	EPA02 **Interval:** 38.5 - 40.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 5, 3, 3, 2		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
38.5	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Sand - medium - coarse, little silt, reddish br., saturated, loose	SP	W	P	N		0408 BE
39.5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9								
40.5	0.0		2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 30, 2018	**Location:** EPA04	**Interval:** 0-2
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.7 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
0	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0'		Gravel & sand, sand-medium-fine dk. br., gravel ≤ .5", moist, loose	SP	M	P	N		0609 B6
1	0.0				Sand w/ little gravel, gravel ≤ .25" Sand - medium - coarse dk. br. moist, loose	SP	M	P	N		
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0'		Silty Sand, reddish br., moist, soft, little gravel, gravel ≤ .25"	SP	M	P	N		
2					No Recovery						
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 30 , 2018	**Location:** EPA04	**Interval:** 3.5-5.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 Bc = 5.4, 3.4		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.4 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
3.5	0.0		0.0'		Sand & gravel, sand coarse, gravel ≤ .5" gravel round, light br., moist, loose.	GP	M	P	N		0610 BE
	0.0		0.5		No Recovery						
4.5			1.0'								
5.5			2.0'								
			3.0'								
			4.0'								
			5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 8.5-10.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 3,3,4,4		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 0.9 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
8.5	0.0		0.0'								
			0.1		Sand - coarse w/ tiny gravel ≤ .25"	SP	M	P	N		06, 11
			0.2		reddish br., moist, loose						
			0.3		Organic - Bk. wood-like material	-	-	-	-		
	0.0		0.4								
			0.5		Same as 0.0' - 0.2'	SP	M	P	N		
			0.6								
			0.7								
			0.8								
			0.9								
9.5	0.0		1.0'								
			1.1		No Recovery						
			1.2								
			1.3								
			1.4								
			1.5								
			1.6								
			1.7								
			1.8								
			1.9								
10.5			2.0'								
			2.1								
			2.2								
			2.3								
			2.4								
			2.5								
			2.6								
			2.7								
			2.8								
			2.9								
			3.0'								
			3.1								
			3.2								
			3.3								
			3.4								
			3.5								
			3.6								
			3.7								
			3.8								
			3.9								
			4.0'								
			4.1								
			4.2								
			4.3								
			4.4								
			4.5								
			4.6								
			4.7								
			4.8								
			4.9								
			5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 13.5-15.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC: 3, 2, 3, 2		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
13.5	0.0		0.0'								
			0.1		Same as above w/ little silt	SP	M	P	N		0612 BE
			0.2								
			0.3								
			0.4								
	0.0		0.5								
			0.6								
			0.7								
			0.8								
			0.9								
14.5	0.0		1.0'								
			1.1								
			1.2								
			1.3		No Recovery						
			1.4								
			1.5								
			1.6								
			1.7								
			1.8								
			1.9								
15.5			2.0'								
			2.1								
			2.2								
			2.3								
			2.4								
			2.5								
			2.6								
			2.7								
			2.8								
			2.9								
			3.0'								
			3.1								
			3.2								
			3.3								
			3.4								
			3.5								
			3.6								
			3.7								
			3.8								
			3.9								
			4.0'								
			4.1								
			4.2								
			4.3								
			4.4								
			4.5								
			4.6								
			4.7								
			4.8								
			4.9								
			5.0'								

Date:	November 30, 2018	**Location:** EPA04	**Interval:** 18.5 - 20.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC = 1, 2, 4, 3		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.3 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
18.5	0.0		0.0'		Sand - coarse & gravel, reddish br, moist loose, gravel ≤ .25"	SP	M	P	N		0613 BC
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
19.5	0.0		1.0'		Sand - medium - coarse & gravel, little silt saturated, soft/loose, reddish/grayish br.	SP	W	P	N		
			1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9		No Recovery						
20.5			2.0'								
			2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9								
			3.0'								
			3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9								
			4.0'								
			4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 23.5 - 25.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC: 2,3,5,6		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.7 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
23.5	0.0		0.0'								
			0.1		Same as above						0.14 BE
			0.2								
			0.3								
			0.4		Sand - coarse & gravel, gravels .25"						
	0.0		0.5		reddish br., loose, moist	SP	M	P	N		
			0.6								
			0.7								
			0.8								
			0.9								
24.5	0.0		1.0'								
			1.1								
			1.2								
			1.3								
			1.4								
	0.0		1.5								
			1.6								
			1.7								
			1.8								
			1.9		No Recovery						
25.5			2.0'								
			2.1								
			2.2								
			2.3								
			2.4								
			2.5								
			2.6								
			2.7								
			2.8								
			2.9								
			3.0'								
			3.1								
			3.2								
			3.3								
			3.4								
			3.5								
			3.6								
			3.7								
			3.8								
			3.9								
			4.0'								
			4.1								
			4.2								
			4.3								
			4.4								
			4.5								
			4.6								
			4.7								
			4.8								
			4.9								
			5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 28.5 - 30.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L. Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC= 4.4, 6.8		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 2 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
28.5	0.0		0.0'								
	0.0		0.1 0.2 0.3 0.4 0.5		Sand - medium - coarse, reddish br., loose moist	SP	M	P	N		0615
			0.6 0.7 0.8 0.9		Sand - medium little fines, saturated, loose/soupy, reddish br.	SP	W	P	N		
29.5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5								
			1.6 1.7 1.8 1.9								
30.5	0.0		2.0'								
	—		2.1 2.2 2.3 2.4 2.5								
			2.6 2.7 2.8 2.9								
			3.0'								
	—		3.1 3.2 3.3 3.4 3.5								
			3.6 3.7 3.8 3.9								
			4.0'								
	—		4.1 4.2 4.3 4.4 4.5								
			4.6 4.7 4.8 4.9								
			5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 33.5-35.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 BC=9,6,5,5		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.6 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
33.5	0.0		0.0'		Sand - medium - fine, reddish br., moist, loose.	SP	M	P	N		D6U
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
34.5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6								
35.5			1.7 1.4 1.9 2.0'		No Recovery						
	—		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
	—		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
	—		4 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

Date:	November 30, 2018	**Location:**	EPA04 **Interval:** 38.5-40.5
Project Name:	Paden City Site Assessment	**Drilling Method:**	
Location:	Paden City, WV 26159	**Drilling Co.:**	J.L Sexton and Son
Contract No.:	EP-S3-15-03	**Logger:**	TechLaw, Inc.: jc/be
TDD No.:	T501-18-01-001 RC = 5, 6, 7, 6		

Depth (ft.)	PID	Sample Interval	Core Interval	Geology Profile	Description Recovery: 1.7 / 2 ft	USCS	Moisture	Grading	Plasticity	Color (Munsell)	Photo Nos.
38.5	0.0		0.0'		Same as above	SP	M	P	N		0617 BE
	0.0		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9								
39.5	0.0		1.0'								
	0.0		1.1 1.2 1.3 1.4 1.5 1.6 1.7								
40.5			1.8 1.9 2.0'		No Recovery						
	—		2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0'								
	—		3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0'								
	—		4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0'								

ATTACHMENT 2

USEPA CLP Organics COC (REGION COPY)
DateShipped: 11/26/2018
CarrierName: FedEx
AirbillNo: 8132 2488 3390

CHAIN OF CUSTODY RECORD
Paden City Site Assessment/WV
Case #: 48006
Cooler #:

No: 3-112618-171738-0001
Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SB01-1	C0AA0	Ex. 4 CBI	Grab	CLP VOA(14)	1000 (4 C), 1001 (4 C), 1002 (4 C), 1003 (4 C) (4)	BH01	11/26/2018 14:35	Field Sample
SB02-1	C0AA1		Grab	CLP VOA(14)	1004 (4 C), 1005 (4 C), 1006 (4 C), 1007 (4 C) (4)	BH02	11/26/2018 16:24	Field Sample
SB03-1	C0AA2		Grab	CLP VOA(14)	1008 (4 C), 1009 (4 C), 1010 (4 C), 1011 (4 C) (4)	BH03	11/26/2018 17:00	Field Sample
TB01	C0AB2		Grab	CLP VOA(14)	1048 (HCl), 1049 (HCl), 1050 (HCl) (3)	QC	11/26/2018 17:00	Trip Blank

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP VOA=CLP TAL Volatiles	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Organics COC (REGION COPY)

DateShipped: 11/27/2018
CarrierName: FedEx
AirbillNo: 8132 2488 3389

CHAIN OF CUSTODY RECORD

Paden City Site Assessment/WV
Case #: 48006
Cooler #:

No: 3-112718-170524-0003

Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SB04-1	C0AA3	Ex. 4 CBI	Grab	CLP VOA(14)	1012 (4 C), 1013 (4 C), 1014 (4 C), 1015 (4 C) (4)	BH04	11/27/2018 09:06	Field Sample
SB05-1	C0AA4		Grab	CLP VOA(14)	1016 (4 C), 1017 (4 C), 1018 (4 C), 1019 (4 C) (4)	BH05	11/27/2018 10:29	Field Sample
SB07-1	C0AA5		Grab	CLP VOA(14)	1020 (4 C), 1021 (4 C), 1022 (4 C), 1023 (4 C) (4)	BH07	11/27/2018 12:49	Field Sample
SB08-1	C0AA6		Grab	CLP VOA(14)	1024 (4 C), 1025 (4 C), 1026 (4 C), 1027 (4 C) (4)	BH08	11/27/2018 13:59	Field Dup. OF SB08-2
SB09-1	C0AA7		Grab	CLP VOA(14)	1028 (4 C), 1029 (4 C), 1030 (4 C), 1031 (4 C) (4)	BH09	11/27/2018 15:03	Field Sample
SB10-1	C0AA8		Grab	CLP VOA(14)	1032 (4 C), 1033 (4 C), 1034 (4 C), 1035 (4 C) (4)	BH10	11/27/2018 15:45	Field Sample
SB06-1	C0AA9		Grab	CLP VOA(14)	1036 (4 C), 1037 (4 C), 1038 (4 C) (3)	BH06	11/27/2018 10:49	Field Sample
SB11-1	C0AB0		Grab	CLP VOA(14)	1040 (4 C), 1041 (4 C), 1042 (4 C), 1043 (4 C) (4)	BH11	11/27/2018 16:15	Field Sample
TB02	C0AB3		Grab	CLP VOA(14)	1051 (HCl), 1052 (HCl), 1053 (HCl) (3)	QC	11/27/2018 09:08	Trip Blank
SB06-2	C0AB8		Grab	CLP VOA(14)	1082 (4 C), 1083 (4 C), 1084 (4 C), 1085 (4 C) (4)	BH06	11/27/2018 11:26	Field Sample

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP VOA=CLP TAL Volatiles	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Organics COC (REGION COPY)
DateShipped: 11/27/2018
CarrierName: FedEx
AirbillNo: 8132 2488 3389

CHAIN OF CUSTODY RECORD
Paden City Site Assessment/WV
Case #: 48006
Cooler #:

No: 3-112718-170524-0003
Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SB08-2	C0AB9	k	Grab	CLP VOA(14)	1086 (4 C), 1087 (4 C), 1088 (4 C), 1089 (4 C) (4)	BH08	11/27/2018 14:10	Field Dup. OF SB08-1
RB01	C0AC0	Ex. 4 CBI	Grab	CLP VOA(14)	1090 (HCl), 1091 (HCl), 1092 (HCl) (3)	QC	11/26/2018 17:44	Trip Blank
RB02	C0AC1		Grab	CLP VOA(14)	1093 (HCl), 1094 (HCl), 1095 (HCl) (3)	QC	11/27/2018 11:20	Trip Blank

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP VOA=CLP TAL Volatiles	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Organics COC (REGION COPY)
DateShipped: 12/12/2018
CarrierName: FedEx
AirbillNo: 8026 6101 9983

CHAIN OF CUSTODY RECORD
Paden City Site Assessment/WV
Case #: 48006
Cooler #: 1

No: 3-121218-143931-0004
Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
GW001	C0AC2	Ex. 4 CBI	Grab	CLP TVOA(21)	1096 (HCl), 1097 (HCl), 1098 (HCl) (3)	WGC-PCWV	12/11/2018 10:05	Field Sample
GW003	C0AC4		Grab	CLP TVOA(21)	1102 (HCl), 1103 (HCl), 1104 (HCl) (3)	Well #3	12/11/2018 10:35	Field Sample
GW005	C0AC6		Grab	CLP TVOA(21)	1108 (HCl), 1109 (HCl), 1110 (HCl) (3)	Well #4	12/11/2018 12:50	Field Sample
GW006	C0AC7		Grab	CLP TVOA(21)	1111 (HCl), 1112 (HCl), 1113 (HCl) (3)	Influent	12/11/2018 11:08	Field Sample
GW007	C0AC8		Grab	CLP TVOA(21)	1114 (Na2SO4/HCl), 1115 (Na2SO4/HCl), 1116 (Na2SO4/HCl) (3)	Effluent	12/11/2018 11:15	Field Duplicate of GW012
GW012	C0AC9		Grab	CLP TVOA(21)	1117 (Na2SO4/HCl), 1118 (Na2SO4/HCl), 1119 (Na2SO4/HCl) (3)	Effluent	12/11/2018 11:20	Field Duplicate of GW007
GW008	C0AD0		Grab	CLP TVOA(21)	1120 (HCl), 1121 (HCl), 1122 (HCl) (3)	EPA01	12/11/2018 16:37	Field Sample
GW009	C0AD1		Grab	CLP TVOA(21)	1123 (HCl), 1124 (HCl), 1125 (HCl) (3)	EPA02	12/12/2018 09:40	Field Sample
GW010	C0AD2		Grab	CLP TVOA(21)	1126 (HCl), 1127 (HCl), 1128 (HCl) (3)	EPA03	12/11/2018 17:14	Field Duplicate of GW013

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP TVOA=CLP TCL Trace Volatiles	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Organics COC (REGION COPY)
DateShipped: 12/12/2018
CarrierName: FedEx
AirbillNo: 8026 6101 9983

CHAIN OF CUSTODY RECORD
Paden City Site Assessment/WV
Case #: 48006
Cooler #: 1

No: 3-121218-143931-0004
Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
GW011	C0AD3	Ex. 4 CBI	Grab	CLP TVOA(21)	1129 (HCl), 1130 (HCl), 1131 (HCl) (3)	EPA04	12/12/2018 11:28	Field Sample
GW013	C0AD4		Grab	CLP TVOA(21)	1132 (HCl), 1133 (HCl), 1134 (HCl) (3)	EPA03	12/11/2018 17:20	Field Duplicate of GW010
TB03	C0AD5		Grab	CLP TVOA(21)	1135 (HCl), 1136 (HCl), 1137 (HCl) (3)	QC	12/10/2018 17:25	Trip Blank
RB03	C0AD7		Grab	CLP TVOA(21)	1141 (HCl), 1142 (HCl), 1143 (HCl) (3)	QC	12/11/2018 15:40	Rinsate
FB01	C0AD8		Grab	CLP TVOA(21)	1144 (HCl), 1145 (HCl), 1146 (HCl) (3)	QC	12/12/2018 10:03	Field Blank
WW01	C0AD9		Grab	CLP TVOA(21)	1147 (HCl), 1148 (HCl), 1149 (HCl) (3)	Manhole #1	12/11/2018 13:50	Field Sample
WW02	C0AE0		Grab	CLP TVOA(21)	1150 (HCl), 1151 (HCl), 1152 (HCl) (3)	Manhole #2	12/11/2018 14:15	Field Sample
IDW-W-01	C0AE1		Grab	TCLP VOC(21), CLP VOA(21)	1181 (4 C), 1182 (4 C), 1183 (4 C), 1186 (HCl), 1187 (HCl), 1188 (HCl) (6)	IDW-Water	12/12/2018 13:10	Field Sample
RB04	C0AE5		Grab	CLP TVOA(21)	1198 (HCl), 1199 (HCl), 1200 (HCl) (3)	QC	12/12/2018 10:20	Rinsate

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP TVOA=CLP TCL Trace Volatiles, TCLP VOC=CLP TCLP VOC, CLP VOA=CLP TAL Volatiles	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Organics COC (REGION COPY)

DateShipped: 12/12/2018
CarrierName: FedEx
AirbillNo: 8026 6101 9994

CHAIN OF CUSTODY RECORD

Paden City Site Assessment/WV
Case #: 48006
Cooler #: 2

No: 3-121218-145352-0005

Lab: Shealy Environmental Services
Lab Contact: Ex. 4 CBI
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
IDW-S-01	C0AB5	Ex. 4 CBI	Grab	T_SV/PEST(14), T_VOAS(14), CLP ARO(21), CLP VOA(21)	1058 (4 C), 1059 (4 C), 1060 (4 C), 1061 (4 C), 1062 (4 C), 1079 (4 C), 1080 (4 C), 1081 (4 C) (8)	IDW	12/12/2018 13:50	Field Sample
IDW-W-01	C0AE1		Grab	TCLP SV/Pest(21), CLP ARO(21)	1154 (4 C), 1178 (4 C), 1179 (4 C), 1180 (4 C), 1184 (4 C), 1185 (4 C) (6)	IDW-Water	12/12/2018 13:10	Field Sample
IDW-S-02	C0AE4		Grab	T_SV/PEST(14), T_VOAS(14), CLP ARO(21), CLP VOA(21)	1190 (4 C), 1191 (4 C), 1192 (4 C), 1193 (4 C), 1194 (4 C), 1195 (4 C), 1196 (4 C), 1197 (4 C) (8)	IDW	12/12/2018 13:35	Field Sample

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #

Analysis Key: T_SV/PEST=TCLP SVOC/Pesticide, T_VOAS=TCLP Volatiles, CLP ARO=CLP TAL Aroclors, CLP VOA=CLP TAL Volatiles, TCLP SV/Pest=CLP TCLP SVOC/PESTICIDES

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 12/12/2018
CarrierName: FedEx
AirbillNo: 8026 6101 9961

CHAIN OF CUSTODY RECORD

Paden City Site Assessment/WV
Case #: 48006
Cooler #: 3

No: 3-121218-151444-0006

Lab: Chemtex
Lab Contact: Ex. 4 CBI
Lab Phone: 4099834575

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
IDW-S-01	MC0AB5	Ex. 4 CBI	Grab	T_MET(14)	1057 (1)	IDW	12/12/2018 13:50	Field Sample
IDW-W-01	MC0AE1		Grab	TCLP Met(21)	1153 (4 C) (1)	IDW-Water	12/12/2018 13:10	Field Sample
IDW-S-02	MC0AE4		Grab	T_MET(14)	1189 (1)	IDW	12/12/2018 13:35	Field Sample

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #

Analysis Key: T_MET=TCLP Metals+Hg, TCLP Met=CLP TCLP Metals+Hg (As,Ag,Ba,Cd,Cr,Pb,Se,Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

ATTACHMENT 3

TechLaw
Quality & Integrity

Groundwater Sampling Record

Paden City Site Assessment

Sampling Team: Ex. 4 CBI

Time started purge: 1553
Pump depth: 18.3'
Flow rate: 90 mL/m
controller setting: CPM4/30A

Well ID: EPA 01
Sample No.: GW 008
Date: 12-11-15
Time: 16:37

Well Construction
DTB (ft TOC): 20.77
Well Stickup (ft AGS): ---
Well Depth (ft BGS):
Sand Pack (y/n): Y
Screened Interval: 10'

Purge Volume Calculation
DTB (ft TOC): 20.77
DTW (ft TOC): — 12.05
Water Column Ht (ft): = 8.72
x Conversion: x 0.163 = gal.
1 Purge Vol. (oz. or gal) = 1.4

Volume Purged:
Sample Method: Low Flow Bladder Pump
Abandonment Method:

Time	DTW (TOIC)	Temp (°C)	SpC (mS/cm)	DO (mg/L)	pH (units)	SAL	ORP	TURB	Comments
1600	13.83	12.2	0.676	2.55	5.97	—	108	95	
1603	13.83	12.9	0.679	1.92	5.90	—	107	85	
1606	13.83	13.0	0.679	1.63	5.87	—	103	63	
1609	14.00	13.3	0.680	1.35	5.85	—	97	35	
1612	14.00	13.5	0.680	1.14	5.83	—	88	28	
1615	14.00	13.5	0.681	1.06	5.82	—	85	22	
1618	14.00	13.5	0.680	1.01	5.82	—	82	20	
1621	14.00	13.5	0.680	1.01	5.82	—	81	17	
1624	14.00	13.5	0.680	1.04	5.82	—	80	16	
1627	14.00	13.4	0.680	0.96	5.81	—	79	15	
1630	14.00	13.5	0.678	0.92	5.81	—	78	14	
1633	14.00	13.5	0.678	0.91	5.81	—	77	14	stabilized

Type of Samples collected: Field, Duplicate, Lab QC

Typ. Stabilization Criteria
Temp, SpC +/- 3%
DO +/- 10%
pH +/- 0.1 unit
ORP +/- 10 mV
Turbidity +/-10%

Superfund Technical Assessment and Response Team (START5)
TDD: T501-18-01-001

TechLaw
Quality & Integrity

Groundwater Sampling Record

Paden City Site Assessment

Sampling Team: Ex. 4 CBI

Time started purge: 0910
Pump depth: 39.0'
Flow rate: 150 ml/min
controller setting: CPM4 / 65 ft

Well ID: EPA 12
Sample No.: GW009
Date: 12-12-18
Time: 0940

Well Construction
DTB (ft TOC): 42.58
Well Stickup (ft AGS): ---
Well Depth (ft BGS): 43.0
Sand Pack (y/n): Y
Screened Interval: 10' - 32.58 - 42.58

Purge Volume Calculation
DTB (ft TOC) 42.58
DTW (ft TOC) --- 35.13
Water Column Ht (ft): = 7.45
x Conversion x 0.163 = gal.
1 Purge Vol. (oz. or gal) = 1.2

Volume Purged: 2 gal.
Sample Method: Low Flow Bladder Pump
Abandonment Method:

Time	DTW (TOIC)	Temp (°C)	SpC (mS/cm)	DO (mg/L)	pH (units)	SAL	ORP	TURB	Comments
0915	35.18	13.6°	0.183	7.73	6.16	-	341	240	
0918	35.18	13.8	0.183	7.73	5.93	-	336	244	
0921	35.18	13.8	0.182	7.65	5.83	-	331	107	
0924	35.18	13.9	0.182	7.59	5.77	-	324	68	
0927	35.18	13.9	0.181	7.56	5.74	-	318	82	
0930	35.18	14.0	0.181	7.55	5.71	-	313	75	
0933	35.18	14.0	0.181	7.53	5.70	-	309	74	(stabilized)

Type of Samples collected: Field, Duplicate, Lab QC

Exp. Stabilization Criteria
Temp, SpC +/- 3%
DO +/- 10%
pH +/- 0.1 unit
ORP +/- 10 mV
Turbidity +/- 10%

Superfund Technical Assessment and Response Team (START5)
TDD: T501-18-01-003

TechLaw
Quality & Integrity

Groundwater Sampling Record

Paden City Site Assessment

Sampling Team: Ex. 4 CBI

Well Construction
DTB (ft TOC): 58.38
Well Stickup (ft AGS): ---
Well Depth (ft BGS): 59
Sand Pack (y/n): y
Screened Interval: 15'

Purge Volume Calculation
DTB (ft TOC) 58.38
DTW (ft TOC) --- 50.02
Water Column Ht (ft): = 8.36
x Conversion x 0.163 = gal.
1 Purge Vol. (oz. or gal) = 1.36

Time started purge 11:05
Pump depth ~~50.41~~ 55.0'
Flow rate 190 ml/min
controller setting CPm-4/82Sr.

Volume Purged ~1 gal.
Sample Method Low Flow Bladder Pump
Abandonment Method

Well ID: EPA04
Sample No.: GW011
Date: 12-12-18
Time: 1128

Time	DTW (TOIC)	Temp (°C)	SpC (mS/cm)	DO (mg/L)	pH (units)	SAL	ORP	TURB	Comments
1113	50.00	14.8	0.444	3.98	5.70	-	267	70	
1116	50.00	14.9	0.448	3.88	5.70	-	265	69	
1119	50.00	14.9	0.452	3.82	5.70	-	263	69	
1122	50.00	14.9	0.460	3.82	5.69	-	263	64	(stabilized)

Type of Samples collected: Field, Duplicate, Lab QC

Typ. Stabilization Criteria
Temp. SpC +/- 3%
DO +/- 10%
pH +/- 0.1 unit
ORP +/- 10 mV
Turbidity +/- 10%

Superfund Technical Assessment and Response Team (START3)
TDD. T501-18-01-001

TechLaw
Quality & Integrity

Groundwater Sampling Record

Paden City Site Assessment

Sampling Team: Ex. 4 CBI

Well Construction
DTB (ft TOC): ?
Well Stickup (ft AGS): ---
Well Depth (ft BGS): ~ 86' bgs
Sand Pack (y/n): ?
Screened Interval: ?

Purge Volume Calculation
DTB (ft TOC) ?
DTW (ft TOC) --- 40.85
Water Column Ht (ft): ∞
x Conversion x 0.163 = gal.
1 Purge Vol. (oz. or gal) =

Time started purge 1217
Pump depth 70' TOC
Flow rate 170 ml/m
controller setting MS4/

Volume Purged
Sample Method Low Flow Bladder Pump
Abandonment Method N/A

Well ID: Municipal Well #4
Sample No.: GW005
Date: 12-11-18
Time:

Time	DTW (TOIC)	Temp (°C)	SpC (mS/cm)	DO (mg/L)	pH (units)	SAL	ORP	TURB	Comments
1226	40.95	12.2	0.285	3.38	6.43		244.1	82.8	
1229	"	12.5°	0.289	2.86	6.34		246.3	~~64~~ 62.8	
1234	"	12.6°	0.285 ~~0.262~~	2.71	6.30		242.1	52.0	
1238	"	12.7	0.285	2.39	6.28		238	~~44~~ ~~45~~ 45.0	
1241	"	12.6	0.285	2.40	6.27		236.8	42	
1244	"	12.7	0.285	2.33	6.27		235.5	39.1	
1247	"	12.6	0.285	2.22	6.26		233.9	37.3	

Type of Samples collected: Field, Duplicate, Lab QC

Typ. Stabilization Criteria
Temp. SpC +/- 3%
DO +/- 10%
pH +/- 0.1 unit
ORP +/- 10 mV
Turbidity +/- 10%

Superfund Technical Assessment and Response Team (START5)
TDD: T501-18-01-001

ATTACHMENT 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: 1/29/2019

SUBJECT: Region III Data QA Review

FROM: Brandon McDonald
Region III ESAT RPO (3EA22)

TO: DENNIS MATLOCK
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the PADEN CITY STE ASSESSMENT site for RAS# 48006; SDG# C0AA2 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III EAID.

If you have any questions regarding this review, please call Brandon McDonald at (410) 305-2607 or you can call Eric Graybill at (410)-305-2665.

Attachment

cc: Ex. 4 CBI e(TECH LAW)

TO: #0002 TDF: #1218056

Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474

ICF
ESAT Region 3
US Environmental Protection Agency Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Phone 410-305-3012

Date: January 3, 2019

To: Brandon McDonald
ESAT Region 3 Project Officer

From: Ex. 4 CBI

Ex. 4 CBI

Subject: Organic Data Validation (S4VEM)
Paden City Site Assessment
48006, C0AA2

Overview

This data package consisted of four (4) trip blanks and thirteen (13) soil samples including a field duplicate sample analyzed for volatile target analytes.

Analyses were performed by Shealy Environmental Services (EQI) according to Contract Laboratory Program (CLP) Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage_4_Validation_Electronic_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated December 17, 2018.

Summary

No data quality outliers that would require qualifying sample results were identified in this case.

Notes

Detected concentrations less than Contract Required Quantitation Limit (CRQL) are estimated and have been qualified "J" unless they were raised to the CRQL and qualified "U" due to blank contamination.

The trip and rinsate blanks reported concentrations of acetone, 2-butanone and/or tetrachloroethene < the CRQL. Positive results for these analytes < the CRQL have been raised to the CRQL and qualified "U".

Laboratory blanks VBLKUG, VBLKVB, VBLKVY and VHBLK01 reported acetone, 2-butanone and/or 2-hexanone at < the CRQL. Positive results for these analytes < the CRQL in samples associated with these laboratory blanks have been raised to the CRQL and qualified "U".

Based on screening, samples listed were initially analyzed as medium level soil samples. In addition, the medium level extracts of two samples listed were initially analyzed diluted to bring concentration of analytes within the calibration range. CRQLs are elevated in these samples.

Samples	DF
C0AA8, C0AA9, C0AB9	None
C0AA4	2000X
C0AB8	40X

Tetrachloroethene exceeded the calibration range in the initial analysis of samples listed below. These samples were reanalyzed as medium level and/or dilution in order to quantitate this analyte within the calibration range. Results from both the initial and medium level analyses are reported in EDD files. Results from the initial analyses are marked "Reportable" except for tetrachloroethene which are marked reportable from the medium level analyses. There is no indication that these exceedance issues impacted subsequent sample analyses.

Sample	DF	Analyte
C0AA2ME	2X	Tetrachloroethene
C0AA3ME, C0AA5ME, C0AA6ME	None	Tetrachloroethene

Results for the field duplicate sample C0AA6/C0AB9 were comparable except for tetrachloroethene.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated by the reviewer and found to be accurate and consistent. No action was taken by the reviewer based on manual integrations.

Glossary of Organic Data Qualifier Codes

Validation Qualifiers	In order of descending precedence. Only one of these qualifiers may apply to any result.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.

Additional Qualifiers	Additional qualifiers may be combined with other qualifiers.
N	The analyte has been “tentatively identified” or “presumptively” as present.
B	The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA0	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH01	pH:	Sample Date: 11/26/2018	Sample Time: 14:35:00
% Moisture:		% Solids: 86.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Chloromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Bromomethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Chloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Acetone	Target	8.7	U	ug/kg	4.3	JB	1.0	YES	S4VEM
Carbon disulfide	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Methyl acetate	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Methylene chloride	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
2-Butanone	Target	8.7	U	ug/kg	8.7	U	1.0	YES	S4VEM
Bromochloromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Chloroform	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Cyclohexane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Benzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Trichloroethene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Methylcyclohexane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Bromodichloromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	8.7	U	ug/kg	8.7	U	1.0	YES	S4VEM
Toluene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Tetrachloroethene	Target	77		ug/kg	77		1.0	YES	S4VEM
2-Hexanone	Target	8.7	U	ug/kg	8.7	U	1.0	YES	S4VEM
Dibromochloromethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Chlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Ethylbenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
o-Xylene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
m, p-Xylene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Styrene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Bromoform	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Isopropylbenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	4.4	U	ug/kg	4.4	U	1.0	YES	S4VEM
Unknown-02	TIC	36	J	ug/kg	36	J	1.0	YES	NV
Unknown-01	TIC	7.1	J	ug/kg	7.1	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA1	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH02	pH:	Sample Date: 11/26/2018	Sample Time: 16:24:00
% Moisture:		% Solids: 84.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Chloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Bromomethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Chloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Acetone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Methyl acetate	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Methylene chloride	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
2-Butanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Chloroform	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Cyclohexane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Benzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Trichloroethene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Toluene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Tetrachloroethene	Target	140		ug/kg	140		1.0	YES	S4VEM
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
o-Xylene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Styrene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Bromoform	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.8	U	ug/kg	5.8	U	1.0	YES	S4VEM
Unknown-01	TIC	30	J	ug/kg	30	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	13	J	ug/kg	13	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA2	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH03	pH:	Sample Date: 11/26/2018	Sample Time: 17:00:00
% Moisture:		% Solids: 87.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Chloromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Bromomethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Chloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Acetone	Target	8.5	U	ug/kg	3.6	JB	1.0	YES	S4VEM
Carbon disulfide	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Methyl acetate	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Methylene chloride	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
2-Butanone	Target	8.5	U	ug/kg	8.5	U	1.0	YES	S4VEM
Bromochloromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Chloroform	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Cyclohexane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Benzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Trichloroethene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Methylcyclohexane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Bromodichloromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	8.5	U	ug/kg	8.5	U	1.0	YES	S4VEM
Toluene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1900		ug/kg	1900	E	1.0	NO	S4VEM
2-Hexanone	Target	8.5	U	ug/kg	8.5	U	1.0	YES	S4VEM
Dibromochloromethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Chlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Ethylbenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
o-Xylene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
m, p-Xylene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Styrene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Bromoform	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Isopropylbenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	4.3	U	ug/kg	4.3	U	1.0	YES	S4VEM
Unknown-01	TIC	26	J	ug/kg	26	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	21	J	ug/kg	21	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA2ME	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH03	pH:	Sample Date: 11/26/2018	Sample Time: 17:00:00
% Moisture:		% Solids: 87.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Chloromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Vinyl chloride	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Bromomethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Chloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Trichlorofluoromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1-Dichloroethene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Acetone	Target	1400	U	ug/kg	1400	U	2.0	NO	S4VEM
Carbon disulfide	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Methyl acetate	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Methylene chloride	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
trans-1,2-Dichloroethene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Methyl tert-butyl ether	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1-Dichloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
cis-1,2-Dichloroethene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
2-Butanone	Target	1400	U	ug/kg	1400	U	2.0	NO	S4VEM
Bromochloromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Chloroform	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1,1-Trichloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Cyclohexane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Carbon tetrachloride	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Benzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2-Dichloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Trichloroethene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Methylcyclohexane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2-Dichloropropane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Bromodichloromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
cis-1,3-Dichloropropene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
4-Methyl-2-pentanone	Target	1400	U	ug/kg	1400	U	2.0	NO	S4VEM
Toluene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
trans-1,3-Dichloropropene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1,2-Trichloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Tetrachloroethene	Target	12000		ug/kg	12000	D	2.0	YES	S4VEM
2-Hexanone	Target	1400	U	ug/kg	1400	U	2.0	NO	S4VEM
Dibromochloromethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2-Dibromoethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Chlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Ethylbenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
o-Xylene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
m, p-Xylene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Styrene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Bromoform	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
Isopropylbenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,1,2,2-Tetrachloroethane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,3-Dichlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,4-Dichlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2-Dichlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2-Dibromo-3-chloropropane	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2,4-Trichlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM
1,2,3-Trichlorobenzene	Target	690	U	ug/kg	690	U	2.0	NO	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA3	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH04	pH:	Sample Date: 11/27/2018	Sample Time: 09:06:00
% Moisture:		% Solids: 81.7	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Chloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Bromomethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Chloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	5.2	JB	1.0	YES	S4VEM
Carbon disulfide	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Methyl acetate	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Methylene chloride	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Chloroform	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.2	J	ug/kg	1.2	J	1.0	YES	S4VEM
Cyclohexane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Benzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Trichloroethene	Target	3.0	J	ug/kg	3.0	J	1.0	YES	S4VEM
Methylcyclohexane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	0.94	J	ug/kg	0.94	J	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Tetrachloroethene	Target	3700		ug/kg	3700	E	1.0	NO	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
o-Xylene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Styrene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Bromoform	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	YES	S4VEM
Unknown-01	TIC	5.4	J	ug/kg	5.4	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	16	J	ug/kg	16	J	1.0	YES	NV
Unknown-03	TIC	16	J	ug/kg	16	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA3ME	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH04	pH:	Sample Date: 11/27/2018	Sample Time: 09:06:00
% Moisture:		% Solids: 81.7	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Chloromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Vinyl chloride	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Bromomethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Chloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Trichlorofluoromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Acetone	Target	630	U	ug/kg	630	U	1.0	NO	S4VEM
Carbon disulfide	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Methyl acetate	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Methylene chloride	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
trans-1,2-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Methyl tert-butyl ether	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1-Dichloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
cis-1,2-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
2-Butanone	Target	630	U	ug/kg	630	U	1.0	NO	S4VEM
Bromochloromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Chloroform	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1,1-Trichloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Cyclohexane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Carbon tetrachloride	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Benzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2-Dichloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Trichloroethene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Methylcyclohexane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2-Dichloropropane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Bromodichloromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
cis-1,3-Dichloropropene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
4-Methyl-2-pentanone	Target	630	U	ug/kg	630	U	1.0	NO	S4VEM
Toluene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
trans-1,3-Dichloropropene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1,2-Trichloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Tetrachloroethene	Target	7200		ug/kg	7200		1.0	YES	S4VEM
2-Hexanone	Target	630	U	ug/kg	630	U	1.0	NO	S4VEM
Dibromochloromethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2-Dibromoethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Chlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Ethylbenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
o-Xylene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
m, p-Xylene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Styrene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Bromoform	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
Isopropylbenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,1,2,2-Tetrachloroethane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,3-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,4-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2-Dibromo-3-chloropropane	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2,4-Trichlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM
1,2,3-Trichlorobenzene	Target	310	U	ug/kg	310	U	1.0	NO	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA4	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH05	pH:	Sample Date: 11/27/2018	Sample Time: 10:29:00
% Moisture:		% Solids: 86.7	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Chloromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Vinyl chloride	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Bromomethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Chloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Trichlorofluoromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1-Dichloroethene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Acetone	Target	1200000	U	ug/kg	1200000	U	2000.0	YES	S4VEM
Carbon disulfide	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Methyl acetate	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Methylene chloride	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Methyl tert-butyl ether	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1-Dichloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
2-Butanone	Target	1200000	U	ug/kg	1200000	U	2000.0	YES	S4VEM
Bromochloromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Chloroform	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1,1-Trichloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Cyclohexane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Carbon tetrachloride	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Benzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2-Dichloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Trichloroethene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Methylcyclohexane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2-Dichloropropane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Bromodichloromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
4-Methyl-2-pentanone	Target	1200000	U	ug/kg	1200000	U	2000.0	YES	S4VEM
Toluene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1,2-Trichloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Tetrachloroethene	Target	19000000		ug/kg	19000000	D	2000.0	YES	S4VEM
2-Hexanone	Target	1200000	U	ug/kg	1200000	U	2000.0	YES	S4VEM
Dibromochloromethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2-Dibromoethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Chlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Ethylbenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
o-Xylene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
m, p-Xylene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Styrene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Bromoform	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
Isopropylbenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,3-Dichlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,4-Dichlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2-Dichlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	580000	U	ug/kg	580000	U	2000.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA5	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH07	pH:	Sample Date: 11/27/2018	Sample Time: 12:49:00
% Moisture:		% Solids: 87.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Chloromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Vinyl chloride	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Bromomethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Chloroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Acetone	Target	40		ug/kg	40	B	1.0	YES	S4VEM
Carbon disulfide	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Methyl acetate	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Methylene chloride	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	3.0	J	ug/kg	3.0	J	1.0	YES	S4VEM
2-Butanone	Target	15	U	ug/kg	7.0	JB	1.0	YES	S4VEM
Bromochloromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Chloroform	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.7	J	ug/kg	1.7	J	1.0	YES	S4VEM
Cyclohexane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Benzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Trichloroethene	Target	1.7	J	ug/kg	1.7	J	1.0	YES	S4VEM
Methylcyclohexane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Bromodichloromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	15	U	ug/kg	15	U	1.0	YES	S4VEM
Toluene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Tetrachloroethene	Target	15000		ug/kg	15000	E	1.0	NO	S4VEM
2-Hexanone	Target	15	U	ug/kg	15	U	1.0	YES	S4VEM
Dibromochloromethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Chlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Ethylbenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
o-Xylene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
m, p-Xylene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Styrene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Bromoform	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Isopropylbenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	7.3	U	ug/kg	7.3	U	1.0	YES	S4VEM
Unknown-03	TIC	7.5	J	ug/kg	7.5	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown Alkane-01	TIC	13	J	ug/kg	13	J	1.0	YES	NV
Unknown-04	TIC	8.8	J	ug/kg	8.8	J	1.0	YES	NV
Unknown-06	TIC	12	J	ug/kg	12	J	1.0	YES	NV
Unknown Alkane-02	TIC	10	J	ug/kg	10	J	1.0	YES	NV
Benzene, 1,2-diethyl-	TIC	7.9	NJ	ug/kg	7.9	NJ	1.0	YES	NV
p-Cymene	TIC	9.2	NJ	ug/kg	9.2	NJ	1.0	YES	NV
Unknown-01	TIC	11	J	ug/kg	11	J	1.0	YES	NV
Unknown-02	TIC	28	J	ug/kg	28	J	1.0	YES	NV
Unknown-05	TIC	77	J	ug/kg	77	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA5ME	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH07	pH:	Sample Date: 11/27/2018	Sample Time: 12:49:00
% Moisture:		% Solids: 87.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Chloromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Vinyl chloride	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Bromomethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Chloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Trichlorofluoromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1-Dichloroethene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Acetone	Target	900	U	ug/kg	900	U	1.0	NO	S4VEM
Carbon disulfide	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Methyl acetate	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Methylene chloride	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
trans-1,2-Dichloroethene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Methyl tert-butyl ether	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1-Dichloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
cis-1,2-Dichloroethene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
2-Butanone	Target	900	U	ug/kg	900	U	1.0	NO	S4VEM
Bromochloromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Chloroform	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1,1-Trichloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Cyclohexane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Carbon tetrachloride	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Benzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2-Dichloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Trichloroethene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Methylcyclohexane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2-Dichloropropane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Bromodichloromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
cis-1,3-Dichloropropene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
4-Methyl-2-pentanone	Target	900	U	ug/kg	900	U	1.0	NO	S4VEM
Toluene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
trans-1,3-Dichloropropene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1,2-Trichloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Tetrachloroethene	Target	8500		ug/kg	8500		1.0	YES	S4VEM
2-Hexanone	Target	900	U	ug/kg	900	U	1.0	NO	S4VEM
Dibromochloromethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2-Dibromoethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Chlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Ethylbenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
o-Xylene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
m, p-Xylene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Styrene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Bromoform	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
Isopropylbenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,1,2,2-Tetrachloroethane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,3-Dichlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,4-Dichlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2-Dichlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2-Dibromo-3-chloropropane	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2,4-Trichlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM
1,2,3-Trichlorobenzene	Target	450	U	ug/kg	450	U	1.0	NO	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA6	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH08	pH:	Sample Date: 11/27/2018	Sample Time: 13:59:00
% Moisture:		% Solids: 84.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	6.3	JB	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	420		ug/kg	420	E	1.0	NO	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Unknown-02	TIC	6.5	J	ug/kg	6.5	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-01	TIC	15	J	ug/kg	15	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA6ME	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH08	pH:	Sample Date: 11/27/2018	Sample Time: 13:59:00
% Moisture:		% Solids: 84.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Chloromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Vinyl chloride	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Bromomethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Chloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Trichlorofluoromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Acetone	Target	600	U	ug/kg	600	U	1.0	NO	S4VEM
Carbon disulfide	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Methyl acetate	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Methylene chloride	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
trans-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Methyl tert-butyl ether	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
cis-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
2-Butanone	Target	600	U	ug/kg	600	U	1.0	NO	S4VEM
Bromochloromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Chloroform	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1,1-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Cyclohexane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Carbon tetrachloride	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Benzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Trichloroethene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Methylcyclohexane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2-Dichloropropane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Bromodichloromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
cis-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
4-Methyl-2-pentanone	Target	600	U	ug/kg	600	U	1.0	NO	S4VEM
Toluene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
trans-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1,2-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Tetrachloroethene	Target	510		ug/kg	510		1.0	YES	S4VEM
2-Hexanone	Target	600	U	ug/kg	600	U	1.0	NO	S4VEM
Dibromochloromethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2-Dibromoethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Chlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Ethylbenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
o-Xylene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
m, p-Xylene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Styrene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Bromoform	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
Isopropylbenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,1,2,2-Tetrachloroethane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,3-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,4-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2-Dibromo-3-chloropropane	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2,4-Trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM
1,2,3-Trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	NO	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA7	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH09	pH:	Sample Date: 11/27/2018	Sample Time: 15:03:00
% Moisture:		% Solids: 85.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Chloromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Vinyl chloride	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Bromomethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Chloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Acetone	Target	13	U	ug/kg	9.9	JB	1.0	YES	S4VEM
Carbon disulfide	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Methyl acetate	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Methylene chloride	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
2-Butanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Bromochloromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Chloroform	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Cyclohexane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Benzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Trichloroethene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Methylcyclohexane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Bromodichloromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Toluene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Tetrachloroethene	Target	6.3	U	ug/kg	2.7	J	1.0	YES	S4VEM
2-Hexanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Dibromochloromethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Chlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Ethylbenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
o-Xylene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
m, p-Xylene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Styrene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Bromoform	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	6.3	U	ug/kg	6.3	U	1.0	YES	S4VEM
Unknown-02	TIC	13	J	ug/kg	13	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-01	TIC	5.2	J	ug/kg	5.2	J	1.0	YES	NV
Unknown-03	TIC	5.1	J	ug/kg	5.1	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA8	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH10	pH:	Sample Date: 11/27/2018	Sample Time: 15:45:00
% Moisture:		% Solids: 81.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Chloromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Vinyl chloride	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Bromomethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Chloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Acetone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Carbon disulfide	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Methyl acetate	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Methylene chloride	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
2-Butanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Bromochloromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Chloroform	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Cyclohexane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Benzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Trichloroethene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Methylcyclohexane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Bromodichloromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Toluene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Tetrachloroethene	Target	2200		ug/kg	2200		1.0	YES	S4VEM
2-Hexanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Dibromochloromethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Chlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Ethylbenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
o-Xylene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
m, p-Xylene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Styrene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Bromoform	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
Isopropylbenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	310	U	ug/kg	310	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AA9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH06	pH:	Sample Date: 11/27/2018	Sample Time: 10:49:00
% Moisture:		% Solids: 90.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Chloromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Vinyl chloride	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Bromomethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Chloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Acetone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Carbon disulfide	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Methyl acetate	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Methylene chloride	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
2-Butanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Bromochloromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Chloroform	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Cyclohexane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Benzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Trichloroethene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Methylcyclohexane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Bromodichloromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Toluene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Tetrachloroethene	Target	2200		ug/kg	2200		1.0	YES	S4VEM
2-Hexanone	Target	610	U	ug/kg	610	U	1.0	YES	S4VEM
Dibromochloromethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Chlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Ethylbenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
o-Xylene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
m, p-Xylene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Styrene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Bromoform	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
Isopropylbenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB0	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH11	pH:	Sample Date: 11/27/2018	Sample Time: 16:15:00
% Moisture:		% Solids: 92.7	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Chloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Bromomethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Chloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Acetone	Target	12	U	ug/kg	8.8	JB	1.0	YES	S4VEM
Carbon disulfide	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Methyl acetate	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Methylene chloride	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
2-Butanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Bromochloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Chloroform	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Cyclohexane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Benzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Trichloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Toluene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Dibromochloromethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
o-Xylene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Styrene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Bromoform	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	6.0	U	ug/kg	6.0	U	1.0	YES	S4VEM
Unknown-02	TIC	12	J	ug/kg	12	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AA2** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-01	TIC	7.3	J	ug/kg	7.3	J	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB2	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 11/26/2018	Sample Time: 17:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	3.4	J	ug/L	3.4	J	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB3	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 11/27/2018	Sample Time: 09:08:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	4.2	J	ug/L	4.2	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	3.3	J	ug/L	3.3	J	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB8	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH06	pH:	Sample Date: 11/27/2018	Sample Time: 11:26:00
% Moisture:		% Solids: 84.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Chloromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Vinyl chloride	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Bromomethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Chloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Trichlorofluoromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1-Dichloroethene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Acetone	Target	25000	U	ug/kg	25000	U	40.0	YES	S4VEM
Carbon disulfide	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Methyl acetate	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Methylene chloride	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Methyl tert-butyl ether	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1-Dichloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
2-Butanone	Target	25000	U	ug/kg	25000	U	40.0	YES	S4VEM
Bromochloromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Chloroform	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1,1-Trichloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Cyclohexane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Carbon tetrachloride	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Benzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2-Dichloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Trichloroethene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Methylcyclohexane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2-Dichloropropane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Bromodichloromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
4-Methyl-2-pentanone	Target	25000	U	ug/kg	25000	U	40.0	YES	S4VEM
Toluene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1,2-Trichloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Tetrachloroethene	Target	180000		ug/kg	180000	D	40.0	YES	S4VEM
2-Hexanone	Target	25000	U	ug/kg	25000	U	40.0	YES	S4VEM
Dibromochloromethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2-Dibromoethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Chlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Ethylbenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
o-Xylene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
m, p-Xylene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Styrene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Bromoform	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
Isopropylbenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,3-Dichlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,4-Dichlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2-Dichlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	13000	U	ug/kg	13000	U	40.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: BH08	pH:	Sample Date: 11/27/2018	Sample Time: 14:10:00
% Moisture:		% Solids: 84.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Chloromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Vinyl chloride	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Bromomethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Chloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Acetone	Target	660	U	ug/kg	660	U	1.0	YES	S4VEM
Carbon disulfide	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Methyl acetate	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Methylene chloride	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
2-Butanone	Target	660	U	ug/kg	660	U	1.0	YES	S4VEM
Bromochloromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Chloroform	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Cyclohexane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Benzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Trichloroethene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Methylcyclohexane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Bromodichloromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	660	U	ug/kg	660	U	1.0	YES	S4VEM
Toluene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Tetrachloroethene	Target	3800		ug/kg	3800		1.0	YES	S4VEM
2-Hexanone	Target	660	U	ug/kg	660	U	1.0	YES	S4VEM
Dibromochloromethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Chlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Ethylbenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
o-Xylene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
m, p-Xylene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Styrene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Bromoform	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Isopropylbenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC0	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 11/26/2018	Sample Time: 17:44:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	3.7	J	ug/L	3.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	3.2	J	ug/L	3.2	J	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 11/27/2018	Sample Time: 11:20:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	3.4	J	ug/L	3.4	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	3.3	J	ug/L	3.3	J	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	2.0	J	ug/L	2.0	J	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKTM	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKUG	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	6.0	J	ug/kg	6.0	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	2.3	J	ug/kg	2.3	J	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	2.1	J	ug/kg	2.1	J	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKUX	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromomethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Acetone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methyl acetate	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
2-Butanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloroform	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Benzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Toluene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Dibromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
o-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
m, p-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Styrene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromoform	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKVB	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	3.8	J	ug/kg	3.8	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKVQ	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromomethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Acetone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methyl acetate	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
2-Butanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chloroform	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Benzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Toluene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	YES	S4VEM
Dibromochloromethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
o-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
m, p-Xylene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Styrene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Bromoform	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKVY	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	4.7	J	ug/kg	4.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	7.1	J	ug/kg	7.1	JB	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AA2** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VHBLK02	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m, p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM

ATTACHMENT 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: 3/19/2019

SUBJECT: Region III Data QA Review

FROM: Brandon McDonald
Region III ESAT RPO(3EA22)

TO: DENNIS MATLOCK
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the PADEN CITY STE ASSESSMENT site for RAS# 48006; SDG# C0AC6 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III EAID.

If you have any questions regarding this review, please call Brandon McDonald at (410) 305-2607 or you can call Eric Graybill at (410)-305-2665.

Attachment

cc: Ex. 4 CBI

TO: #0002 TDF: #0219028

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ICF
ESAT Region 3
US Environmental Protection Agency Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Phone 410-305-3012

Date: March 5, 2019

To: Brandon McDonald
ESAT Region 3 Project Officer

From: Ex. 4 CBI

Ex. 4 CBI

Subject: Organic Data Validation (S4VEM)
Paden City Ste Assessment
48006 C0AC6

Overview

This data package consisted of one (1) trip blank, one (1) field blank, two (2) rinsates, two (2) water samples, and eleven (11) ground water samples, including two (2) field duplicate pairs, analyzed for trace volatile target analytes.

Analyses were performed by Shealy Environmental Service (EQI) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage_4_Validation_Electronic_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated January 31, 2019.

Summary

Technical holding time exceedances required rejection and estimation of sample results. Less significant data quality outliers requiring estimation of sample results were identified including, but not limited to, blank contamination as detailed below.

Major Problem

During sample analyses on 12/22/2018, a foaming sample caused the instrument to stop. The Closing Calibration Verification standard was not analyzed due to the instrument stop. Affected samples C0AC6, C0AC7, C0AC8, C0AC9, C0AD0, C0AD1, C0AD2, C0AD3, C0AD4, C0AD5, C0AD7, C0AD8, and C0AD9 were re-analyzed one (1) to three (3) days outside the fourteen (14) day technical holding time. Required secondary dilutions for samples C0AD2 and C0AD4 were also analyzed three (3) days outside the fourteen (14) day technical holding time. The initial analyses of samples C0AE0 and C0AE5 were two (2) to three (3) days outside the fourteen (14) day technical holding time. Detected concentrations reported in the affected samples may be estimated low and have been qualified "J-". Quantitation limits are unusable and have been qualified "R".

Notes

Target analytes with detected concentrations less than Contract Required Quantitation Limits (CRQL), not attributed to blank contamination, are estimated and have been qualified "J".

Trip, field, and rinsate blanks C0AD5, C0AD7, C0AD8, and C0AE5 reported concentrations of chloroform greater than the CRQL. Detected concentrations of chloroform which were less than the CRQL were reported at the CRQL and qualified "U".

Contaminant methylene chloride reported in a storage blank did not quality field sample data.

Percent recoveries for Deuterated Monitoring Compound (DMCs) listed below were outside upper control limits for the samples shown. No results were reported from initial analyses of these samples. The associated analyte vinyl choride was not detected in the re-analysis of sample C0AD9 and quantitation limits were not qualified based on this finding. The associated analyte carbon disulfide is less than the CRQL, is estimated and has been qualified "J" and is not qualified based on this finding.

DMC	Sample(s)
Vinyl Chloride-d3	C0AC8, C0AC9, C0AD9, Re-analysis of C0AD9
Chloroethane-d5	Re-analysis of C0AD9, C0AD9

Samples C0AD9 and C0AE0 were re-analyzed at five-fold (5X) dilutions due to the addition of the anti-foaming agent. Sample C0AC7 was only re-analyzed at the five-fold (5X) dilution necessary to quantify tetrachloroethene. The CRQLs for these samples are elevated due to the dilutions.

Due to high concentrations of target analytes, samples C0AD2 and C0AD4 were initially analyzed and also re-analyzed at one-hundred-fold (100X) dilutions. The CRQLs for these samples are elevated due to the dilutions.

Concentrations for tetrachloroethene exceeded the calibration range in the initial analysis for the samples listed. These samples were reanalyzed at dilution in order to quantitate this analyte within the calibration range. Results were reported from the re-analyzed dilutions. There is no indication that these exceedance issues impacted subsequent sample analyses.

Sample(s)	Dilution
C0AC7	5X
C0AD2, C0AD4	1000X

JT Baker Antifoam B Silicone, JTB531-5, lot 0000087847, was added to the reanalysis of sample C0AD9, the 5X diluted analysis of sample C0AE0 and to associated method blank VBLKHM.

Usable results reported for field duplicate pairs C0AC8/C0AC9 and C0AD2/C0AD4 were comparable. No data were qualified based on field duplicate precision.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated by the validator and found to be accurate and consistent. No action was taken by the validator based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Glossary of Organic Data Qualifier Codes

Validation Qualifiers	In order of descending precedence. Only one of these qualifiers may apply to any result.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.

Additional Qualifiers	Additional qualifiers may be combined with other qualifiers.
N	The analyte has been “tentatively identified” or “presumptively” as present.
B	The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: WGC-PCWV	pH: 2	Sample Date: 12/11/2018	Sample Time: 10:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.27	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	12		ug/L	12		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Well #3	pH: 2	Sample Date: 12/11/2018	Sample Time: 10:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	15		ug/L	15		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Well #4	pH: 2	Sample Date: 12/11/2018	Sample Time: 12:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.14	J	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	0.51	NJ	ug/L	0.51	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Influent	pH: 2	Sample Date: 12/11/2018	Sample Time: 11:08:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Vinyl chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromomethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Trichlorofluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Acetone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Carbon disulfide	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methyl acetate	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methylene chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methyl tert-butyl ether	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
2-Butanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Bromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloroform	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,1-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Cyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Carbon tetrachloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Benzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Trichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methylcyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromodichloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
4-Methyl-2-pentanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Toluene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Tetrachloroethene	Target	21	J	ug/L	21	D	5.0	YES	S4VEM
2-Hexanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Dibromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dibromoethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Ethylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
o-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
m, p-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Styrene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromoform	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Isopropylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,3-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,4-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Unknown-01	TIC	0.57	J	ug/L	0.57	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Effluent	pH: 2	Sample Date: 12/11/2018	Sample Time: 11:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	7.2	J-	ug/L	7.2		1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.47	J	ug/L	0.47	J	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Sulfur dioxide	TIC	1200	NJ	ug/L	2400	NJ	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-01	TIC	0.58	J	ug/L	0.58	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AC9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Effluent	pH: 2	Sample Date: 12/11/2018	Sample Time: 11:20:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	7.2	J-	ug/L	7.2		1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	0.88	NJ	ug/L	0.88	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclotrisiloxane, hexamethyl-	TIC	0.73	NJ	ug/L	0.73	NJ	1.0	NO	NV
Sulfur dioxide	TIC	1800	NJ	ug/L	1600	NJ	1.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EPA01	pH: 2	Sample Date: 12/11/2018	Sample Time: 16:37:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.39	J	ug/L	0.39	J	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	4.6	J-	ug/L	4.6		1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	3.2	J	ug/L	3.2	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclotetrasiloxane, octamethyl-	TIC	1.3	NJ	ug/L	1.3	NJ	1.0	NO	NV
Sulfur dioxide	TIC	1.2	NJ	ug/L	1.2	NJ	1.0	YES	NV
Cyclotrisiloxane, hexamethyl-	TIC	0.79	NJ	ug/L	0.79	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EPA02	pH: 2	Sample Date: 12/12/2018	Sample Time: 09:40:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.23	J	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	0.71	J	ug/L	0.71	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EPA03	pH: 2	Sample Date: 12/11/2018	Sample Time: 17:14:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Vinyl chloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromomethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Trichlorofluoromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Acetone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Carbon disulfide	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methyl acetate	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methylene chloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
trans-1,2-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methyl tert-butyl ether	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1-Dichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
cis-1,2-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
2-Butanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Bromochloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloroform	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,1-Trichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Cyclohexane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Carbon tetrachloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Benzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Trichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methylcyclohexane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichloropropane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromodichloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
cis-1,3-Dichloropropene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Toluene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
trans-1,3-Dichloropropene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2-Trichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Tetrachloroethene	Target	4700	J-	ug/L	4700	D	1000.0	YES	S3VE
2-Hexanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Dibromochloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dibromoethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Ethylbenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
o-Xylene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
m, p-Xylene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Styrene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromoform	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Isopropylbenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,3-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,4-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Unknown-01	TIC	270	J D	ug/L	270	J D	100.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	77	J D	ug/L	77	J D	100.0	NO	NV
Cyclotetrasiloxane, octamethyl-	TIC	930	NJ D	ug/L	930	NJ D	1000.0	YES	NV
Cyclotrisiloxane, hexamethyl-	TIC	54	NJ D	ug/L	54	NJ D	100.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EPA04	pH: 2	Sample Date: 12/12/2018	Sample Time: 11:28:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.19	J	ug/L	0.19	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	1.1	NJ	ug/L	1.1	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclotrisiloxane, hexamethyl-	TIC	0.71	NJ	ug/L	0.71	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: EPA03	pH: 2	Sample Date: 12/11/2018	Sample Time: 17:20:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Vinyl chloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromomethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Trichlorofluoromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Acetone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Carbon disulfide	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methyl acetate	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methylene chloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
trans-1,2-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methyl tert-butyl ether	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1-Dichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
cis-1,2-Dichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
2-Butanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Bromochloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chloroform	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,1-Trichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Cyclohexane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Carbon tetrachloride	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Benzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Trichloroethene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Methylcyclohexane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichloropropane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromodichloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
cis-1,3-Dichloropropene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Toluene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
trans-1,3-Dichloropropene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2-Trichloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Tetrachloroethene	Target	4500	J-	ug/L	4500	D	1000.0	YES	S3VE
2-Hexanone	Target	500	R	ug/L	500	U	100.0	YES	S3VE
Dibromochloromethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dibromoethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Chlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Ethylbenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
o-Xylene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
m, p-Xylene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Styrene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Bromoform	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Isopropylbenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,3-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,4-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	50	R	ug/L	50	U	100.0	YES	S3VE
Unknown-01	TIC	62	J D	ug/L	62	J D	100.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 12/10/2018	Sample Time: 17:25:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	4.4	J	ug/L	4.4	J	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	4.7	J	ug/L	4.7	J	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	1.0	J-	ug/L	1.0		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.22	J	ug/L	0.22	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	0.76	J	ug/L	0.76	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 12/11/2018	Sample Time: 15:40:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	2.7	J	ug/L	2.7	J	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.70	J-	ug/L	0.70		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.091	J	ug/L	0.091	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclotetrasiloxane, octamethyl-	TIC	0.63	NJ	ug/L	0.63	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 12/12/2018	Sample Time: 10:03:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	3.0	J	ug/L	3.0	J	1.0	YES	S3VE
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.85	J-	ug/L	0.85		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.10	J	ug/L	0.10	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
Unknown-01	TIC	2.4	J	ug/L	2.4	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Cyclotetrasiloxane, octamethyl-	TIC	0.54	NJ	ug/L	0.54	NJ	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AD9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Manhole #1	pH: 2	Sample Date: 12/11/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Vinyl chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromomethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Trichlorofluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Acetone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Carbon disulfide	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methyl acetate	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methylene chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methyl tert-butyl ether	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
2-Butanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Bromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chloroform	Target	2.5	R	ug/L	0.86	J D	5.0	YES	S3VE
1,1,1-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Cyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Carbon tetrachloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Benzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Trichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Methylcyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromodichloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
4-Methyl-2-pentanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Toluene	Target	3.5	J-	ug/L	3.5	D	5.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Tetrachloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
2-Hexanone	Target	25	R	ug/L	25	U	5.0	YES	S3VE
Dibromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dibromoethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Chlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Ethylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
o-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
m, p-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Styrene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Bromoform	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Isopropylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,3-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,4-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S3VE
Unknown-09	TIC	0.73	J	ug/L	0.73	J	1.0	NO	NV
Unknown-10	TIC	0.55	J	ug/L	0.55	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Methanethiol	TIC	17	NJ	ug/L	13	NJ D	5.0	YES	NV
Unknown-04	TIC	0.52	J	ug/L	0.52	J	1.0	NO	NV
Eucalyptol	TIC	1.6	NJ	ug/L	1.6	NJ	1.0	NO	NV
Unknown-02	TIC	3.3	J	ug/L	13	J D	5.0	YES	NV
Cyclohexane, 1-methyl-4-(1-methylethenyl	TIC	3.7	NJ	ug/L	3.0	NJ D	5.0	YES	NV
Unknown-05	TIC	9.9	J	ug/L	9.9	J	1.0	NO	NV
Unknown-01	TIC	2.5	J	ug/L	8.2	J D	5.0	YES	NV
Unknown-08	TIC	5.9	J	ug/L	5.9	J	1.0	NO	NV
Unknown-06	TIC	2.4	J	ug/L	2.4	J	1.0	NO	NV
Unknown-03	TIC	0.58	J	ug/L	0.58	J	1.0	NO	NV
Disulfide, dimethyl	TIC	5.1	NJ	ug/L	5.1	NJ	1.0	NO	NV
Cyclohexanone, 5-methyl-2-(1-methylethyl	TIC	0.82	NJ	ug/L	0.82	NJ	1.0	NO	NV
Dimethyl sulfide	TIC	0.90	NJ	ug/L	0.90	NJ	1.0	NO	NV
D-Limonene	TIC	3.8	NJ	ug/L	6.4	NJ D	5.0	YES	NV
Unknown-07	TIC	0.53	J	ug/L	0.53	J	1.0	NO	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: Manhole #2	pH: 2	Sample Date: 12/11/2018	Sample Time: 14:15:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Chloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Vinyl chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Bromomethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Chloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Trichlorofluoromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Acetone	Target	25	R	ug/L	25	U	5.0	YES	S4VEM
Carbon disulfide	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Methyl acetate	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Methylene chloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Methyl tert-butyl ether	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
2-Butanone	Target	25	R	ug/L	25	U	5.0	YES	S4VEM
Bromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Chloroform	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1,1-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Cyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Carbon tetrachloride	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Benzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2-Dichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Trichloroethene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Methylcyclohexane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2-Dichloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Bromodichloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
4-Methyl-2-pentanone	Target	25	R	ug/L	25	U	5.0	YES	S4VEM
Toluene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1,2-Trichloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Tetrachloroethene	Target	1.5	J	ug/L	1.5	J D	5.0	YES	S4VEM
2-Hexanone	Target	25	R	ug/L	25	U	5.0	YES	S4VEM
Dibromochloromethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2-Dibromoethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Chlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Ethylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
o-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
m, p-Xylene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Styrene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Bromoform	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
Isopropylbenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,3-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,4-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2-Dichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	2.5	R	ug/L	2.5	U	5.0	YES	S4VEM
4-Heptanone	TIC	3.5	NJ D	ug/L	3.5	NJ D	5.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AC6** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	3.6	J D	ug/L	3.6	J D	5.0	YES	NV
Unknown-01	TIC	7.8	J D	ug/L	7.8	J D	5.0	YES	NV

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: QC	pH: 2	Sample Date: 12/12/2018	Sample Time: 10:20:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.53	J-	ug/L	0.53		1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	R	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKEK	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKEQ	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKGG	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKHM	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VBLKHN	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AC6** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 2	Sample Date:	Sample Time:
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.18	J	ug/L	0.18	J	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m, p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclotetrasiloxane, octamethyl-	TIC	0.50	NJ	ug/L	0.50	NJ	1.0	YES	NV

ATTACHMENT 6

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB5	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
gamma-BHC (Lindane)	Target	0.000050	UJ	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor	Target	0.000050	UJ	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor epoxide	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Endrin	Target	0.00010	UJ	mg/L	0.00010	U	1.0	YES	S3VE
Methoxychlor	Target	0.00050	UJ	mg/L	0.00050	U	1.0	YES	S3VE
cis-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
trans-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Toxaphene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB5	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
2-Methylphenol	Target	0.010	U	mg/L	0.010	U	1.0	YES	S3VE
3-Methylphenol + 4-Methylphenol	Target	0.010	U	mg/L	0.010	U	1.0	YES	S3VE
Hexachloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Nitrobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Hexachlorobutadiene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,6-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,5-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4-Dinitrotoluene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Phenanthrene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Vinyl chloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2-Butanone	Target	0.0051	J	mg/L	0.0051	J	1.0	YES	S3VE
Chloroform	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Benzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Trichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Tetrachloroethene	Target	2.4		mg/L	2.4	D	20.0	YES	S3VE
Chlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE1	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
gamma-BHC (Lindane)	Target	0.000050	UJ	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor	Target	0.000050	UJ	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor epoxide	Target	0.000050	UJ	mg/L	0.0000019	JP	1.0	YES	S3VE
Endrin	Target	0.00010	UJ	mg/L	0.00010	U	1.0	YES	S3VE
Methoxychlor	Target	0.00050	UJ	mg/L	0.00050	U	1.0	YES	S3VE
cis-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
trans-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Toxaphene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE1	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
2-Methylphenol	Target	0.010	R	mg/L	0.010	U	1.0	YES	S3VE
3-Methylphenol + 4-Methylphenol	Target	0.010	R	mg/L	0.010	U	1.0	YES	S3VE
Hexachloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Nitrobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Hexachlorobutadiene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,6-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,5-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4-Dinitrotoluene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Phenanthrene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Vinyl chloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2-Butanone	Target	0.010	U	mg/L	0.010	U	1.0	YES	S3VE
Chloroform	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Benzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Trichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.14		mg/L	0.14		1.0	YES	S3VE
Chlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE4	Method: Pesticides	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
gamma-BHC (Lindane)	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Heptachlor epoxide	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Endrin	Target	0.00010	U	mg/L	0.00010	U	1.0	YES	S3VE
Methoxychlor	Target	0.00050	UJ	mg/L	0.00050	U	1.0	YES	S3VE
cis-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
trans-Chlordane	Target	0.000050	U	mg/L	0.000050	U	1.0	YES	S3VE
Toxaphene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE4	Method: Semivolatiles	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
2-Methylphenol	Target	0.010	U	mg/L	0.010	U	1.0	YES	S3VE
3-Methylphenol + 4-Methylphenol	Target	0.010	U	mg/L	0.010	U	1.0	YES	S3VE
Hexachloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Nitrobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Hexachlorobutadiene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,6-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4,5-Trichlorophenol	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2,4-Dinitrotoluene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Phenanthrene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AB5** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE4	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: IDW	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Vinyl chloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
2-Butanone	Target	0.0054	J	mg/L	0.0054	J	1.0	YES	S3VE
Chloroform	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Benzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Trichloroethene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.0033	J	mg/L	0.0033	J	1.0	YES	S3VE
Chlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.0050	U	mg/L	0.0050	U	1.0	YES	S3VE

Unvalidated Data!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB5	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 87.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1221	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1232	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1242	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1248	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1254	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1260	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1262	Target	37	U	ug/kg	37	U	1.0	YES	S3VE
Aroclor-1268	Target	37	U	ug/kg	37	U	1.0	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AB5	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 87.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Chloromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Vinyl chloride	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Bromomethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Chloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Trichlorofluoromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1-Dichloroethene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Acetone	Target	22000	U	ug/kg	22000	U	40.0	YES	S3VE
Carbon disulfide	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Methyl acetate	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Methylene chloride	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
trans-1,2-Dichloroethene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Methyl tert-butyl ether	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1-Dichloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
cis-1,2-Dichloroethene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
2-Butanone	Target	22000	U	ug/kg	22000	U	40.0	YES	S3VE
Bromochloromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Chloroform	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1,1-Trichloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Cyclohexane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Carbon tetrachloride	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Benzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2-Dichloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Trichloroethene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Methylcyclohexane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2-Dichloropropane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Bromodichloromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
cis-1,3-Dichloropropene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
4-Methyl-2-pentanone	Target	22000	U	ug/kg	22000	U	40.0	YES	S3VE
Toluene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
trans-1,3-Dichloropropene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1,2-Trichloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Tetrachloroethene	Target	120000		ug/kg	120000	D	40.0	YES	S3VE
2-Hexanone	Target	22000	U	ug/kg	22000	U	40.0	YES	S3VE
Dibromochloromethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2-Dibromoethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Chlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Ethylbenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
o-Xylene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
m, p-Xylene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Styrene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Bromoform	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
Isopropylbenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,3-Dichlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,4-Dichlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2-Dichlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	11000	U	ug/kg	11000	U	40.0	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE1	Method: Aroclors	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH: 7	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1221	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1232	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1242	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1248	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1254	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1260	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1262	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE
Aroclor-1268	Target	1.0	UJ	ug/L	1.0	U	1.0	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH: 2	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	3.5	J	ug/L	3.5	J	1.0	YES	S3VE
Carbon disulfide	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Methyl acetate	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	R	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	R	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	250	J	ug/L	250	D	5.0	YES	S3VE
2-Hexanone	Target	10	R	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
o-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
m, p-Xylene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	R	ug/L	5.0	U	1.0	YES	S3VE
Isopropyl Alcohol	TIC	6.9	NJ	ug/L	6.9	NJ	1.0	YES	NV

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE4	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 89.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1221	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1232	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1242	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1248	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1254	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1260	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1262	Target	36	U	ug/kg	36	U	1.0	YES	S3VE
Aroclor-1268	Target	36	U	ug/kg	36	U	1.0	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW14035/C0AE1** | **Lab Name: Shealy Environmental Services, Inc.**

Sample Number: C0AE4	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 89.2	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Chloromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Vinyl chloride	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Bromomethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Chloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-Trifluoroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Acetone	Target	12	J	ug/kg	12	[illegible]	1.0	YES	S3VE
Carbon disulfide	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Methyl acetate	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Methylene chloride	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Methyl tert-butyl ether	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
2-Butanone	Target	9.3	R	ug/kg	9.3	U	1.0	YES	S3VE
Bromochloromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Chloroform	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Cyclohexane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Carbon tetrachloride	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Benzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Trichloroethene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Methylcyclohexane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Bromodichloromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	9.3	R	ug/kg	9.3	U	1.0	YES	S3VE
Toluene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Tetrachloroethene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
2-Hexanone	Target	9.3	R	ug/kg	9.3	U	1.0	YES	S3VE
Dibromochloromethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Chlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Ethylbenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
o-Xylene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
m, p-Xylene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Styrene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Bromoform	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Isopropylbenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2,4-Trichlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	4.6	R	ug/kg	4.6	U	1.0	YES	S3VE
Unknown-03	TIC	12	J	ug/kg	12	J	1.0	YES	NV

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project **GroupID: 48006/EPW14035/C0AE1** **Lab Name: Shealy Environmental Services, Inc.**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Unknown-02	TIC	26	J	ug/kg	26	J	1.0	YES	NV
Unknown-01	TIC	10	J	ug/kg	10	J	1.0	YES	NV

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AB5	Method: Mercury by Cold Vapor	Matrix: Water	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 89.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	mg/L	0.000072	J	1	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AB5	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:50:00
% Moisture:		% Solids: 89.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Arsenic	Target	5.0	U	mg/L	0.0031	J	1	YES	S3VE
Barium	Target	0.56	J	mg/L	0.56	J	1	YES	S3VE
Cadmium	Target	0.0014	J	mg/L	0.0014	J	1	YES	S3VE
Chromium	Target	0.0085	J	mg/L	0.0085	J	1	YES	S3VE
Lead	Target	5.0	U	mg/L	0.015	J	1	YES	S3VE
Selenium	Target	0.014	J	mg/L	0.014	J	1	YES	S3VE
Silver	Target	5.0	U	mg/L	5.0	U	1	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AE1	Method: Mercury by Cold Vapor	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH:	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	mg/L	0.20	U	1	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AE1	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: IDW-Water	pH:	Sample Date: 12/12/2018	Sample Time: 13:10:00
% Moisture:		% Solids:	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Arsenic	Target	5.0	U	mg/L	0.0043	J	1	YES	S3VE
Barium	Target	0.50	J	mg/L	0.50	J	1	YES	S3VE
Cadmium	Target	0.0012	J	mg/L	0.0012	J	1	YES	S3VE
Chromium	Target	0.0024	J	mg/L	0.0024	J	1	YES	S3VE
Lead	Target	5.0	U	mg/L	0.013	J	1	YES	S3VE
Selenium	Target	0.0073	J	mg/L	0.0073	J	1	YES	S3VE
Silver	Target	5.0	U	mg/L	5.0	U	1	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AE4	Method: Mercury by Cold Vapor	Matrix: Water	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 90.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Mercury	Target	0.20	U	mg/L	0.000071	J	1	YES	S3VE

UNVALIDATED DATA!

Sample Summary Report

Project Name: PADEN CITY Project | **GroupID: 48006/EPW15007/MC0AB5** | **Lab Name: CHEMTEX**

Sample Number: MC0AE4	Method: Metals by ICP-AES	Matrix: Water	MA Number:
Sample Location: IDW	pH:	Sample Date: 12/12/2018	Sample Time: 13:35:00
% Moisture:		% Solids: 90.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Arsenic	Target	5.0	U	mg/L	0.0038	J	1	YES	S3VE
Barium	Target	0.35	J	mg/L	0.35	J	1	YES	S3VE
Cadmium	Target	1.0	U	mg/L	1.0	U	1	YES	S3VE
Chromium	Target	0.0050	J	mg/L	0.0050	J	1	YES	S3VE
Lead	Target	5.0	U	mg/L	0.012	J	1	YES	S3VE
Selenium	Target	0.0074	J	mg/L	0.0074	J	1	YES	S3VE
Silver	Target	5.0	U	mg/L	5.0	U	1	YES	S3VE

UNVALIDATED DATA!

ATTACHMENT 7

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WVD981743958
2. Page 1 of: 1
3. Emergency Response Phone: 304-280-7500
4. Manifest Tracking Number: 017912066 JJK

5. Generator's Name and Mailing Address
U S E P A
1060 Chapline Street
Wheeling, WV 26003
304-280-7500
Generator's Phone:

Generator's Site Address (if different than mailing address)
U S E P A
223 North Fourth Avenue
Paden City, WV 26159

6. Transporter 1 Company Name: ECO-FIRST, Inc. - Lanham, WV
U.S. EPA ID Number: WVR000501304

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Environmental Enterprises, Inc
4680 Spring Grove Avenue
Cincinnati, OH 45232
513-541-4012
Facility's Phone:
U.S. EPA ID Number: OHD003277010

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077, HAZARDOUS WASTE, SOLID, N.O.S., (Ext Cuttings), 9, PG II, (ERG #171), D030	001	DM	800	P	D030
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
EEI Profile # Q18846

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Dennis Matlock for USEPA
Signature: D. Matlock
Month: 3 Day: 1 Year: 2018

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Ex. 4 CBI
Signature: Ex. 4 CBI
Month: 3 Day: 1 Year: 2018
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number WVD981743678	2. Page 1 of 1	3. Emergency Response Phone 304-280-7500	4. Waste Tracking Number 03011901

5. Generator's Name and Mailing Address
U.S.E.P.A.
1060 Chapline Street
Wheeling, WV 26003
Generator's Phone: 304-280-7500

Generator's Site Address (if different than mailing address)
U.S.E.P.A.
223 North Fourth Avenue
Paden City, WV 26159

6. Transporter 1 Company Name: ECO-FIRST, Inc. - Lesage, WV
U.S. EPA ID Number: WVR000501304

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Environmental Enterprises, Inc.
4650 Spring Grove Avenue
Cincinnati, OH 45232
Facility's Phone: 513-541-1929
U.S. EPA ID Number: OHD093377010

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS WASTE, SOIL CUTTINGS	005	DM	3000	P	
2.	NON HAZARDOUS WASTE, PURGE WATER	002	DM	100	G	
3.						
4.						

13. Special Handling Instructions and Additional Information
EE Profile # Q 1 6 8 4 4 (Soil Cuttings) and Q 1 6 8 4 3 (Purge Water)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Dennis Matlock for US EPA
Signature: [signature]
Month 3 Day 1 Year 2019

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Ex. 4 CBI
Ex. 4 CBI
Month 3 Day 1 Year 2019

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [signature]
Signature: [signature]
Month 3 Day 1 Year 19

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY