

Level 2 Contamination Impact Assessment Report
SR 400 (I-4) Project Development and Environment (PD&E) Study
Segment 2
Ponds 205B, 205C, 205D, 206, 206A, and 206B
Orange County, Florida
Financial Project No. 432100-1-22-01
GEC Project No. 3492E

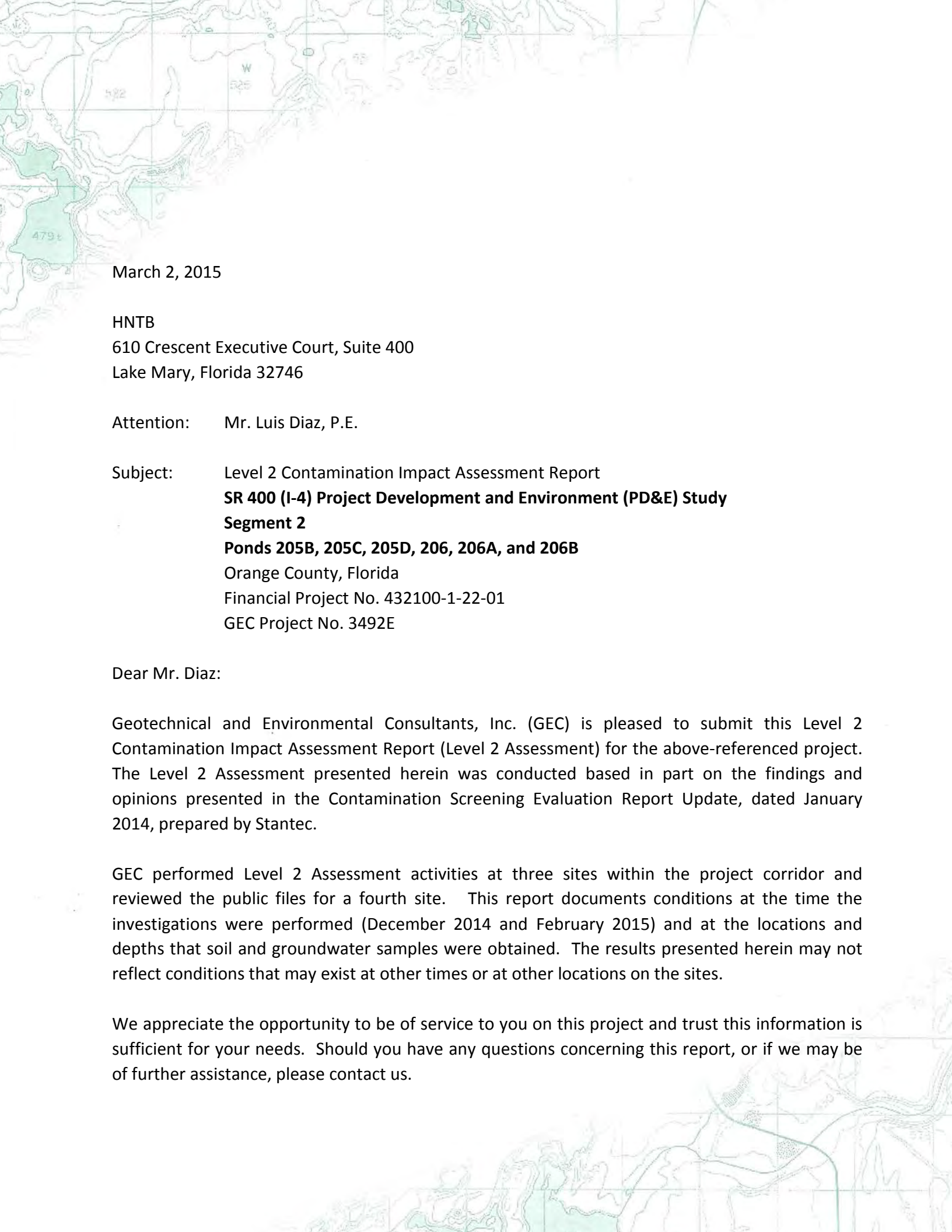
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and
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March 2015

DRAFT



March 2, 2015

HNTB
610 Crescent Executive Court, Suite 400
Lake Mary, Florida 32746

Attention: Mr. Luis Diaz, P.E.

Subject: Level 2 Contamination Impact Assessment Report
**SR 400 (I-4) Project Development and Environment (PD&E) Study
Segment 2
Ponds 205B, 205C, 205D, 206, 206A, and 206B**
Orange County, Florida
Financial Project No. 432100-1-22-01
GEC Project No. 3492E

Dear Mr. Diaz:

Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to submit this Level 2 Contamination Impact Assessment Report (Level 2 Assessment) for the above-referenced project. The Level 2 Assessment presented herein was conducted based in part on the findings and opinions presented in the Contamination Screening Evaluation Report Update, dated January 2014, prepared by Stantec.

GEC performed Level 2 Assessment activities at three sites within the project corridor and reviewed the public files for a fourth site. This report documents conditions at the time the investigations were performed (December 2014 and February 2015) and at the locations and depths that soil and groundwater samples were obtained. The results presented herein may not reflect conditions that may exist at other times or at other locations on the sites.

We appreciate the opportunity to be of service to you on this project and trust this information is sufficient for your needs. Should you have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

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1.0 INTRODUCTION

Geotechnical and Environmental Consultants, Inc. (GEC) has been retained by HNTB, on behalf of the Florida Department of Transportation (FDOT), to provide a Level 2 Contamination Impact Assessment (Level 2 Assessment) for the SR 400 (I-4) Project Development and Environment (PD&E) Study, Segment 2.

The CSER identified proposed stormwater ponds 205B, 205C and 205D as being within an area of historic citrus groves and Ethylene DiBromide groundwater impacts.

Ponds 206, 206A and 206B are located in the vicinity of a historic gasoline station that had documented soil and groundwater impacts.

The Contamination Screening Evaluation Report (CSER), dated January 2014, was prepared by Stantec for this project. The CSER identified proposed stormwater ponds 205B, 205C and 205D as being within an area of historic citrus groves and Ethylene DiBromide groundwater impacts. The three proposed stormwater ponds were assigned a Medium risk rating. Ponds 206, 206A and 206B are located in the vicinity of a historical gasoline station that had documented soil and groundwater impacts. GEC and FDOT determined that proposed pond stormwater pond 205B, 205C, 205D, 206, 206A and 206B sites warranted further investigation at this time. Asbestos

sampling was also performed on debris piles within the vacant property containing Ponds 205B and 205C.

This Level 2 Assessment was conducted in general accordance with the Chapter 22-2.7 of the FDOT Project Development & Environment (PD&E) Manual and the Sampling and Analysis Plan, dated June 4, 2014. Discussions regarding potential project implications associated with the proposed stormwater ponds are presented herein.

1.1 Purpose

The purpose of the Level 2 Assessment was to verify the potential presence of chemical contaminants that could affect ROW acquisition, design and/or construction of the proposed roadway. If the presence of such contaminants is verified, further delineation of the horizontal and vertical extent of the soil and/or groundwater contaminant plumes may be needed to support ROW acquisition and associated liability protections. Such additional data may also be necessary to support stormwater management system design, foundation design, and design of remedial strategies that may be necessary during construction to properly mitigate the impacted media without causing adverse impacts to workers and the environment.

1.2 Objectives

The objectives of the Level 2 Assessment presented herein were to: (i) assess the potential for soil and groundwater impacts associated with anticipated contaminant source area(s) via soil and groundwater screening techniques; (ii) provide information necessary to evaluate project impacts associated with ROW acquisition and construction activities; and (iii) provide site-specific recommendations based on the Level 2 Assessment results and the current roadway design plans.

1.3 Organization of Report

The remainder of this Level 2 Assessment Report is organized as follows:

Section 2.0: *Project Description* - provides an overview of the SR 400 (I-4) Project Development and Environment (PD&E) Study, Segment 2.

Section 3.0: *Summary of Potential Contamination Risk Sites* - provides a summary of the potential contamination sites that were identified in the environmental contamination screening evaluation.

Section 4.0: *Contamination Impact Assessment Methodology* - summarizes the sampling activities performed for this Level 2 Assessment.

Section 5.0: *Investigation Results* - provides a general summary of the sampling results.

Section 6.0: *Data Quality* - summarizes the data quality objectives, and field and laboratory quality control and quality assurance procedures.

Section 7.0: *Conclusions and Recommendations* - summarizes the sampling results and provides site-specific recommendations for the project.

Section 8.0: *Report Limitations* - presents specific limitations associated with the preliminary assessment activities and results herein.

Section 9.0: *Use of Report* - describes the terms of use of this report.

Figures and tables that provide specific details of the Level 2 Assessment activities are presented in the Appendix. Copies of all field documentation are provided in **Appendix A** and a copy of the

analytical laboratory report is provided in **Appendix B**. An asbestos survey of debris piles in the area proposed for Ponds 205B and 205C is provided in **Appendix C**.

2.0 PROJECT DESCRIPTION

The Florida Department of Transportation (FDOT) will reconstruct and widen I-4 as part of the I-4 Beyond the Ultimate project. This involves the build-out of I-4 to its ultimate condition, including segments in Polk, Osceola, Orange, Seminole, and Volusia Counties. Segment 2 of the project is located in southwest Orange County, Florida. The project corridor is located in Sections 35 and 36, Township 23 South, Range 28 East, and Sections 1, 2, 11, and 12, Township 24 South, Range 28 East in Orange County, Florida.

The I-4 Ultimate design incorporates three (3) general use lanes and two (2) tolled express lanes in each direction, for a total of ten (10) dedicated lanes. Segment 2 extends from ½ mile south of SR 528 to south of SR 435 (Kirkman Road) and includes the interchanges at SR 528, Sand Lake Road, and Universal Boulevard. Stormwater runoff will be directed to several new stormwater ponds along the corridor.

The Segment 2 project alignment is bordered mostly by commercial buildings with sparse sections of undeveloped land consisting of pine flatwoods and palmetto bushes. Many of the proposed ponds are located in developed areas or near I-4 roadway/ramps; therefore, natural drainage patterns have been affected by previous construction.

This Level 2 Assessment includes investigation and analyses at the proposed locations for Ponds 205B, 205C and 205D. Research for Ponds 206, 206A and 206B included a review of the Florida Department of Environmental Protection (FDEP) OCULUS files. Asbestos sampling was performed on debris piles within the vacant property containing Ponds 205B and 205C.

Pond 205C was designated Pond 205A within the January 2014 CSER and within the initial Level 2 Assessment activities.

Pond 205C was designated Pond 205A within the January 2014 CSER and within the initial Level 2 Assessment activities.

The project study area is shown on the St. Johns River Water Management District Land Use Map, a USGS Quadrangle Map, and the National Resource Conservation Services (NRCS) Soil Survey Map provided on **Figures 1** and **2**.

3.0 SUMMARY OF POTENTIAL CONTAMINATION RISK SITES

The Level 2 Assessments for the following potential contamination sites were recommended due to the lack of sufficient contamination assessment information, documented groundwater flow direction, and/or the distance/location of the sites relative to planned ROW acquisition/construction. The following descriptions are provided for each site addressed in this Level 2 Assessment. **Figures 1 through 4** show the approximate locations of Ponds 205B, 205C, 205D, 206, 206A and 206B.

3.1 Groundwater Contamination Plume #48263254 (Site No. 17)

The following description was taken from the January 2014 CSER:

The contaminant associated with this plume is the agricultural pesticide ethylene dibromide (EDB), which is usually associated with citrus growing. According to FDEP Map Direct, the contamination plume is under approximately 0.72 miles of the current right-of-way from the approximate vicinity of Dr. P. Phillips Hospital to Wal-Mart Supercenter #4332 and in the surrounding vicinity. FDOT Pond Sites 205A and 205B (Site 37) are the only potential pond sites within the identified contamination plume. There are fifteen additional contamination sites located within this plume that are given individual ratings. This plume is rated MEDIUM RISK due to the potential for contamination to be present. Further investigation, including soil and groundwater tests, should be conducted within the right-of-way, at Pond sites 205A and 205B (site 37), and wherever demolition and dewatering activities will occur within the EDB contamination plume.

3.2 Vacant Lots, Potential FDOT Pond Sites 205A and 205B (Site No. 37)

The following description was taken from the January 2014 CSER:

This site has been proposed for the future site of FDOT Ponds 205A and 205B. They are located at 9287 and 9200 Turkey Lake Road. Boo Boo Lake is located on the property and surrounded by overgrown vegetation that used to be the site of a campground. There are no records of contamination associated with this site, but several areas of concern were identified during a site visit. There are several piles and scattered clusters of discarded roofing tiles throughout the site: a demolished building left in a pile, discarded trash debris, and old tires. The site has also been identified as being within Groundwater Contamination Plume #48263254 (Site 17) for ethylene dibromide (EDB). This site is ranked a MEDIUM RISK due to the potential for discarded materials to contain asbestos or lead-based paint and the site being within a contamination plume with plans

to build ponds on the site. Tests for asbestos-containing materials and lead-based paint should be performed in addition to soil and groundwater testing for EDB before proceeding with construction.

3.3 FDOT Right-of-Way, former 7-Eleven Food Store #21315 (Site No. 72)

The following description was taken from the January 2014 CSER:

This former LUST site was located at 7957 Sand Lake Road, which is currently the I-4 interchange with Sand Lake Road at the ramps northwest of the current right-of-way. In May, 1989, 522 tons of leaded/unleaded gasoline contaminated soil was excavated and removed to a depth of six feet. The area is considered clean because it was over-excavated to remove any excess contamination, but there is no record regarding the source or the size of the original contamination discharge. This site is rated LOW RISK due to it being already owned by the FDOT and considered clean, but there could be a potential for contamination to exist deeper in the soil.

3.4 Pond 206

The following description was taken from the January 2014 CSER:

Pond Site 206 is located at the interchange of I-4 and Sand Lake Road in the northwestern quadrant, adjacent to the onramp to I-4 westbound from Sand Lake Road, and the off-ramp from I-4 westbound to Sand Lake Road. This is an existing dry pond that was permitted during the design of this interchange, and will be converted to a wet pond for the purposes of this project. The site is primarily open grass, though a rim-ditch is found along the perimeter to convey run-off, and the area in the southeastern portion contains wetland vegetation such as Carolina willow, primrose willow, and Brazilian pepper. No obvious signs of contamination were observed in the field for this site. Therefore, this pond site was given a LOW RISK rating.

4.0 CONTAMINATION IMPACT ASSESSMENT METHODOLOGY

The following sections provide detailed descriptions of the Level 2 Assessment activities based on known site conditions and our understanding of the SR 400 PD&E Study project needs. Field logs generated during performance of the Level 2 Assessment activities are provided in **Appendix A**.

4.1 Boring Locations

The soil boring locations were based on the limits of Ponds 205B, 205C and 205D. The soil borings were placed at locations most likely to encounter evidence of subsurface contamination resulting from past or current on-site activities. GEC technicians obtained geographic coordinate information at each soil boring and temporary groundwater monitoring well locations. **Table 1** presents the site-specific sampling and analysis rationale for each site. **Figure 3** shows the locations of the soil borings at each of the pond sites investigated.

4.2 Hand Auger Borings

GEC technicians performed standard barrel hand auger borings, by manually turning a 3.25-inch diameter, 6-inch long stainless steel sampler into the soil until the barrel was filled. The sampler was then retrieved and the soil was visually examined and classified. This procedure was repeated until the desired termination depth was achieved. Representative soil samples were collected for further visual examination, organic vapor screening and analytical laboratory testing, where applicable. The hand auger equipment was decontaminated in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) prior to collecting soil samples for chemical analysis.

Following the completion of the subsurface activities, the soil cuttings were returned to their original location as backfill for the boreholes, in order to return the site as close to its original condition as possible.

4.3 Direct-Push Soil Sampling

Soil samples were also obtained by a truck-mounted Simco⁷ hydraulic direct-push rig. Continuous soil samples were obtained by hydraulically driving a 3-inch macro-core soil sampler to the desired depth in 5-foot intervals. Upon retrieval of the soil sample, a field technician visually examined and classified the soil sample. The direct-push sampling equipment was decontaminated in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) between sampling locations.

Following the completion of the subsurface activities, the soil cuttings were returned to their original location as backfill for the boreholes, in order to return the site as close to its original condition as possible.

4.4 Organic Vapor Soil Screening

In order to assess the potential for petroleum product or volatile hazardous material contaminated soils that may have resulted from activities conducted on or adjacent to each site, GEC screened soil samples obtained at a total of 32 boring locations. **Figure 3** shows the approximate soil boring locations at each respective site.

Soil samples were collected at approximate 2-foot subsurface sampling intervals beginning one foot below the ground surface to a maximum of 20 feet below land surface (bls). Soil samples that were retrieved from the hand auger and direct push borings were visually inspected for indications of soil contamination, such as soil staining and/or odors, which might be indicative of hazardous material or petroleum product impacts. Samples from each of the borings were screened in the field using a calibrated Thermo Electron Corporation Model TVA-1000B Organic Vapor Analyzer (OVA) equipped with a flame ionization detector (FID) following guidelines for head space analysis set forth in the FDEP document entitled Guidelines for Assessment and Source Removal of Petroleum Contaminated Soil, dated May 1998.

Glass sample jars were half-filled with soil, covered with aluminum foil, sealed, and set aside to allow the volatiles to equilibrate throughout the head space. The organic vapor response for each soil sample was determined by inserting the probe of the OVA-FID into the head space of the sample container and recording the highest sustained reading. The two-jar method was used to obtain total organic vapor readings and carbon filter readings, to account for the presence of naturally occurring methane in site soils. The resultant total non-methane hydrocarbon level is calculated by subtracting the carbon filtered response from the total response. Organic vapor measurements are summarized on **Tables 2A** through **2C**. Soil boring logs are included in **Appendix A-1** and equipment calibration logs are included in **Appendix A-2**.

4.5 Soil Sampling and Analysis

Soil samples for analytical testing were collected from the locations that exhibited the highest OVA readings or locations that were most likely to encounter contaminated media to verify the potential presence of chemical impacts. The samples were transported to Environmental Conservation Laboratories (ENCO) and Advanced Environmental Laboratories (AEL) for analysis.

Composite soil samples for pesticides and herbicides were taken from depths of 0 to 2 feet bls at four locations in Ponds 205B and 205C, and at three locations in Pond 205D as follows:

Soil Sample Locations

Pond 205B		Pond 205C		205D	
Sample ID	Soil Boring ID	Sample ID	Soil Boring ID	Sample ID	Soil Boring ID
CS-17	SB-10	CS-13	SB-5	CS-28	SB-124
CS-18	SB-16	CS-14	SB-6	CS-29	SB-132
CS-19	SB-17	CS-15	SB-7	CS-30	SB-130
CS-20	SB-22	CS-16	SB-1	-	-

An additional sample (SB-9 @ 17') was taken at 17 feet bls from within SB-9, the highest OVA value encountered in Pond 205C.

Table 1 summarizes the site-specific sampling rationale and analytical methods used. Soil sample locations are shown for each site on **Figure 3**.

GEC compared the analytical results of chemical constituents to the Soil Cleanup Target Levels (SCTLs) provided in Chapter 62-777, FAC. **Tables 3A** through **3C** provide a summary of the detected constituent concentrations exhibited within the collected analytical samples. A detailed discussion of the soil analytical results is included in Section 7.0.

4.6 Groundwater Sampling and Analysis

To assess the potential for groundwater contamination impacts that may have resulted from chemical releases, GEC obtained analytical groundwater samples from each site by installing a temporary groundwater monitoring well. The sampling locations were based on the OVA soil screening results and field observations. The wells were installed by GEC utilizing hand auger methods. The well assembly consisted of an approximately 5-foot section of pre-packed 1-inch diameter, 0.01-inch factory slotted polyvinyl chloride (PVC) pipe coupled with a PVC monitoring well point (bottom) and topped with a section of solid PVC riser. The PVC well point, well screen, and riser were transported to the site wrapped in protective plastic. After removing the protective wrap, the assembled groundwater monitoring well was lowered into a 3.25-inch steel casing. Following installation of the well assembly, the steel casing was removed. Subsequent to sampling activities, the temporary well was properly abandoned or removed from the ground.

GEC collected the groundwater sample using low-flow sampling techniques and transported the samples to ENCO and AEL for analysis. The groundwater samples collected from TMW-5 at Pond 205C were submitted for analysis by EPA methods 8260 for VOAs, 8270 for PAHs, FL-Pro for TRPH, 6010 for arsenic, 8081 for pesticides, and 8082 for PCBs. The groundwater samples collected from TMW-6 at Pond 205B were submitted for analysis by EPA methods 601 for arsenic, 8081 for pesticides, and 8151 for herbicides. The groundwater samples collected from TMW-11 at Pond 205D were submitted for analysis by EPA methods 601 for arsenic, 8141 for pesticides and 8151 for herbicides. A detailed discussion of the groundwater analytical results is included in Section 7.0. **Table 1** summarizes the site-specific sampling rationale and analytical methods used. The groundwater sample locations are shown for each site on **Figure 3**. The groundwater sampling log and well construction detail are provided in **Appendix A-3**.

5.0 INVESTIGATION RESULTS

The following sections describe the results of the Level 2 Assessment activities. **Figure 3** shows the sample locations at each site. **Table 1** summarizes the site-specific sampling rationale and analytical methods used. **Tables 2A** through **2C** present the results of the OVA screening. **Tables 3A** through **3C** and **4** provide summaries of soil and groundwater chemical detections as compared to applicable FDEP default clean-up target levels. Only chemical detections are listed in the laboratory results summary tables.

5.1 Soil OVA Soil Screening

The results of the OVA soil screening conducted at a total of 32 boring locations are included in **Tables 2A** through **2C**. Elevated net soil screening values (>10) were detected within the following borings: SB-5, SB-6, SB-8, and SB-9. Organic odors were observed within the following borings: SB-6, SB-8, SB-9, SB-10, SB-124, SB-127 and SB-129.

Soil samples were collected for analytical laboratory testing at the locations and depths which exhibited the highest positive OVA soil screening results, or were most likely to encounter contamination due to property use and field observations. Detailed discussions of the soil OVA screening results for each site are included in Section 7.0. **Tables 2A** through **2C** also indicate the soil types, groundwater depths, and dates that the borings were performed.

5.2 Soil Analysis

Soil samples were collected for analytical laboratory testing based on the results of the OVA soil screening, the roadway alignment, and the proximity to potential chemically-impacted soils. GEC compared the analytical results to SCTLs provided in Chapter 62-777, FAC. Detectable concentrations of chemicals were identified in the soil samples, but the concentrations did not exceed the FDEP SCTLs for direct exposure in residential or industrial settings. **Tables 3A** through **3C** provide a summary of the detected constituent concentrations exhibited within the collected analytical samples. A detailed discussion of the soil analytical results is included in Section 7.0.

5.3 Groundwater Analysis

To assess the potential for groundwater contamination impacts that may have resulted from chemical releases, one groundwater sample was collected for analytical laboratory testing at each proposed pond site (TMW-6 in Pond 205B, TMW-5 in Pond 205C and TMW-11 in Pond 205D). The sample locations were chosen based on the OVA soil screening results. GEC compared the analytical results of chemical constituents to the Groundwater Cleanup Target Levels (GCTLs) provided in Chapter 62-777, FAC. Detectable concentrations of chemicals were identified in the groundwater sample TMW-5, but contaminant concentrations did not exceed FDEP GCTLs for direct exposure in residential or commercial settings. **Table 4** provides a summary of the detected constituent concentrations exhibited within the collected analytical samples. A detailed discussion of the groundwater analytical results is included in Section 7.0.

6.0 DATA QUALITY

6.1 Data Quality Control and Validation

In order to achieve the data quality objectives (DQOs), various field and laboratory quality assurance and quality control (QA/QC) procedures were implemented to verify the integrity of the chemical data. The following provides a summary of the QA/QC framework used to obtain the target DQOs.

6.2 Field QA/QC

All soil and groundwater sampling activities performed by GEC personnel during this environmental investigation were conducted in accordance with FDEP Standard Operating Procedures for Field Activities (FDEP SOP-001/01), FS-2200 (Groundwater Sampling), and FS-3000

(Soil Sampling) dated March 1, 2014. Field instrument calibration forms and groundwater sampling logs are provided in **Appendix A-2** and **A-3**, respectively.

6.3 Laboratory QA/QC

All soil and groundwater samples were submitted in laboratory-supplied containers for analysis to Environmental Conservation Laboratories, Inc. (NELAP #E83182). Laboratory analytical methods and reporting were conducted in accordance with Chapter 62-160, FAC to ensure high data quality. The laboratory reports indicated that the laboratory analyzed the samples using the correct analytical methods. In general, control limits were within acceptable ranges for all laboratory quality assurance samples, method blanks, surrogate standards, laboratory control spikes (LCS), and matrix spikes / matrix spike duplicates (MS/MSD). As shown on **Tables 3A** through **3C** and **4**, chemical constituents that were identified at concentrations at or near the laboratory method detection limits (MDLs), but below the laboratory practical quantitation limits were assigned an “I” qualifier.

Analytical laboratory reports are included in **Appendix B**. Due to the preliminary screening nature of this investigation, equipment blanks and field duplicate samples were not collected during the field activities.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following subsections describe the site-specific conclusions and recommendations based on supplemental public record review, soil screening activities, analytical laboratory results, and the proposed roadway alignment associated with the I-4 PD&E Study, Segment 2, Ponds 205B, 205C, 205D, 206, 206A and 206B project.

7.1 Pond 205B

GEC performed 13 soil screening borings at this site as shown on **Figure 3**. Soil borings SB-10 through SB-22 were positioned at regular intervals within the limits of the proposed Pond 205B. The groundwater table was encountered between approximately 8.5 to 12.5 feet below land surface at this site. The soil borings did not exhibit an elevated organic vapor response. Boring SB-10 had an organic odor within the one to three foot depth; the remaining borings did not have any indicative odors. Composite soil samples were collected at the locations of borings SB-10, SB-16, SB-17 and SB-22 at depths of 0 to 2 feet bls and submitted for analyses for arsenic, pesticides, and herbicides. The groundwater sample was obtained from TMW-6 (SB-11) and submitted for

analyses for arsenic, pesticides, and herbicides. The laboratory analytical results indicated detections in the samples at levels below commercial and residential cleanup target levels listed in Chapter 62-777, FAC and Maximum Contaminant Levels listed in Chapter 62-550, FAC.

Based on the results of the Level 2 Assessment, it appears that the soils and groundwater at the proposed Pond 205B location have not been impacted at this time and would not require special handling, characterization, and disposal provisions. GEC does not recommend any further contamination assessment at this location.

7.2 Pond 205C

GEC performed 9 soil screening borings at this site, as shown on **Figure 3**. Soil borings SB-1 through SB-9 were located at regular intervals throughout the pond site. A large soil mound was found on site in the area encompassed by soil borings SB- 3, SB-6, and SB-9. The soil mound was greater than 10 feet tall. The highest OVA readings (>1,000) and organic odors were encountered within this soil mound.

The groundwater level ranged from approximately 7 feet to greater than 20 feet below the ground surface, depending on the soil boring location relative to the soil mound. Soil borings SB-5, SB-6, SB-8 and SB-9 exhibited elevated net OVA responses (greater than 10 ppm). The elevated OVA readings were within both the vadose and saturated zones. The remainder of the soil samples did not exhibit an elevated organic vapor response (greater than 10 ppm) and did not have any indicative odors.

Composite soil samples were collected at the locations of borings SB-1 and SB-5 through SB-7 at depths of 0 to 2 feet bls and submitted for analyses for arsenic, pesticides, and herbicides. An additional soil sample was obtained from the location of SB-9 at a depth of 17 feet bls, where the net OVA value was recorded at 4,970. Temporary well TMW-5 was installed west of and adjacent to the soil mound, between SB-6 and SB-9. The groundwater from TMW-5 and soil from SB-9 were analyzed for the Table D Waste Oil/Unknown Group. The laboratory analytical results indicated detections in the soil and groundwater samples at levels below commercial and residential cleanup target levels listed in Chapter 62-777, FAC and Maximum Contaminant Levels listed in Chapter 62-550, FAC.

Based on the results of the Level 2 Assessment, it appears that the soils and groundwater at the proposed Pond 205C location have not been impacted at this time and would not require special

handling, characterization, and disposal provisions. GEC does not recommend any further contamination assessment at this location.

7.3 Asbestos Survey

Asbestos sampling was performed on debris piles within the vacant property containing Ponds 205B and 205C. Samples were taken from several debris piles and vinyl sheet flooring on a concrete slab. Non-friable asbestos containing materials were found within chimney flashing (2 square feet), heating ventilation and air conditioning (HVAC) duct mastic (10 square feet) and vinyl sheet flooring (1,200 square feet) onsite. Please see the attached asbestos report in **Appendix C**.

Based on the results of the Asbestos Assessment, it appears that the debris at this location will require special handling, characterization, and disposal provisions.

Based on the results of the Asbestos Assessment, it appears that the debris at this location will require special handling, characterization, and disposal provisions.

7.4 Pond 205D

GEC performed 10 soil screening borings at this site as shown on **Figure 3**. Soil borings SB-123 through SB-132 were positioned at regular intervals within the limits of the proposed Pond 205D. The groundwater table was encountered between approximately 5.0 to 8.5 feet below land surface at this site. The soil borings did not exhibit an elevated net organic vapor response. Borings SB-124, 127 and 129 had organic odors; the remaining borings did not have any indicative odors. Composite soil samples were collected at the locations of borings SB-124, SB-130 and SB-132 at depths of 0 to 2 feet bls and submitted for analyses for arsenic, pesticides, and herbicides. The groundwater sample was obtained from TMW-11 (SB-129) and submitted for analyses for arsenic, pesticides, and herbicides. The laboratory analytical results indicated detections in the samples at levels below commercial and residential cleanup target levels listed in Chapter 62-777, FAC and Maximum Contaminant Levels listed in Chapter 62-550, FAC.

Based on the results of the Level 2 Assessment, it appears that the soils and groundwater at the proposed Pond 205D location have not been impacted at this time and would not require special handling, characterization, and disposal provisions. GEC does not recommend any further contamination assessment at this location.

7.5 Ponds 206, 206A and 206B

Mr. Randy Stafford of FDOT, District 5 requested that GEC review the available public file documents for the historical 7-Eleven facility (FAC 8512588 – addressed at 7957 Turkey Creek Road). This gasoline station was removed from the area of the current I-4 westbound off-ramp in the northwest quadrant of the I-4 and Sand Lake Road interchange. As shown on **Figure 4**, a wet detention stormwater pond will be constructed adjacent to the former 7-Eleven store location.

The Oculus files contained information documenting three 10,000 gallon gasoline USTs that were installed during 1979 and removed during 1989. Universal Engineering Services installed four compliance monitoring wells during 1988. Elevated groundwater contamination was detected in the monitoring wells. PIECO removed the USTs and 522 tons of excessively contaminated soils during 1989. The excavation was reportedly “overdug” and extended past the impacted soils in both depth and width. No post-excavation groundwater documentation was available.

A 1989 FDEP letter was sent to Mr. Stafford, indicating that the roadway could be constructed providing that no dewatering was performed and that the contamination would be assessed once the facility was funded under the state cleanup program. The 7-Eleven site is in the Early Detection Incentive (EDI) program and is currently scored a 31. It is listed as inactive. Apparently no groundwater assessments have been performed.

Mr. Stafford was reportedly contacted several months ago by a firm that was assigned by FDEP to work on the former 7-Eleven site through the Low Score Site Initiative process. Mr. Stafford has indicated that he will contact the FDEP and obtain the sampling data prior to performing any Level 2 Assessment at this location.

Based on the potential for groundwater impacts at the historical 7-Eleven facility and the proposed wet detention design of Ponds 206, 206A and 206B, the historical 7-Eleven facility and pond sites should be considered a High Risk.

7.6 Other General Conclusions and Recommendations

The nature and scope of this Level 2 Assessment was not intended to provide a warranty that the project corridor is free of contamination or release contractors from complying with any and all permitting requirements and/or construction specifications that would represent a liability to the FDOT or to the User of this report.

Although contaminant source material may not be present within the proposed project corridor on some sites investigated, exceedances of surface water discharge criteria may be encountered while performing dewatering in the project corridor. Although these could be due to background conditions only, the FDOT should ensure that FDEP NPDES discharge criteria are met by the contractor during construction.

The data provided in this Level 2 Assessment should be utilized as the ROW acquisition process progresses. FDOT legal representatives should be consulted regarding the statutory and financial responsibility for ownership of contaminated property. GEC also recommends that asbestos and other hazardous building materials survey be conducted at locations in which existing structures will be acquired and demolished as part of this project.

If petroleum-containing or hazardous materials, and/or contaminated soils/groundwater are encountered during performance of construction activities, appropriate activities should be immediately taken to protect site worker safety and (if possible) to prevent the spread of contamination to otherwise non-impacted media. If such materials should be encountered, or if the proposed roadway alignment or stormwater pond sites are changed, GEC should be contacted immediately for consultation.

8.0 REPORT LIMITATIONS

The findings, opinions, conclusions, and recommendations presented herein are based on the soil and groundwater samples obtained at specific locations and explored depths below ground surface at the time of this assessment (December 2014 and February 2015). The Level 2 Assessment was conducted based in part on readily available and practically reviewable information contained in the public record. GEC does not warrant or guarantee the accuracy or completeness of this information. Some of this public record information may be dated and not representative of conditions at the time this report was prepared (December 2014 through February 2015), or in the future. Please refer to this report and supporting documentation, including the January 2014 CSER, in its entirety for a complete understanding regarding our evaluation methodology and the age and limitations of the data upon which we have relied in formulating our findings, opinions, conclusions and/or recommendations.

The conclusions and recommendations presented herein are based on the OVA screening at pre-determined locations, public record information review, and analytical laboratory analysis results. Investigation of the full extent of any contamination plumes was not the objective of this Level 2

Assessment. Groundwater samples collected during the Level 2 Assessment activities were obtained by the installation of temporary groundwater monitoring wells.

This report does not contain discussions on asbestos-containing materials surveys (other than the survey described in this report), lead-based paint surveys, mold surveys, radon gas surveys, lead in drinking water analysis, wetlands surveys, regulatory compliance audits, cultural and historical analyses, industrial hygiene or health and safety audits, ecological surveys, endangered or threatened species evaluations, indoor air quality surveys, engineering investigations, or building suitability studies.

9.0 USE OF REPORT

This report is intended for the exclusive use of our clients, HNTB and FDOT, and for specific application to our clients' project. GEC expressly disclaims any and all liability resulting from reliance on this report by those not authorized, in writing, by GEC.

GEC has strived to provide the services described in this report in a manner consistent with that level of care and skill ordinarily exercised by members of our profession currently practicing in Central Florida. No other representation is expressed or implied in this document.

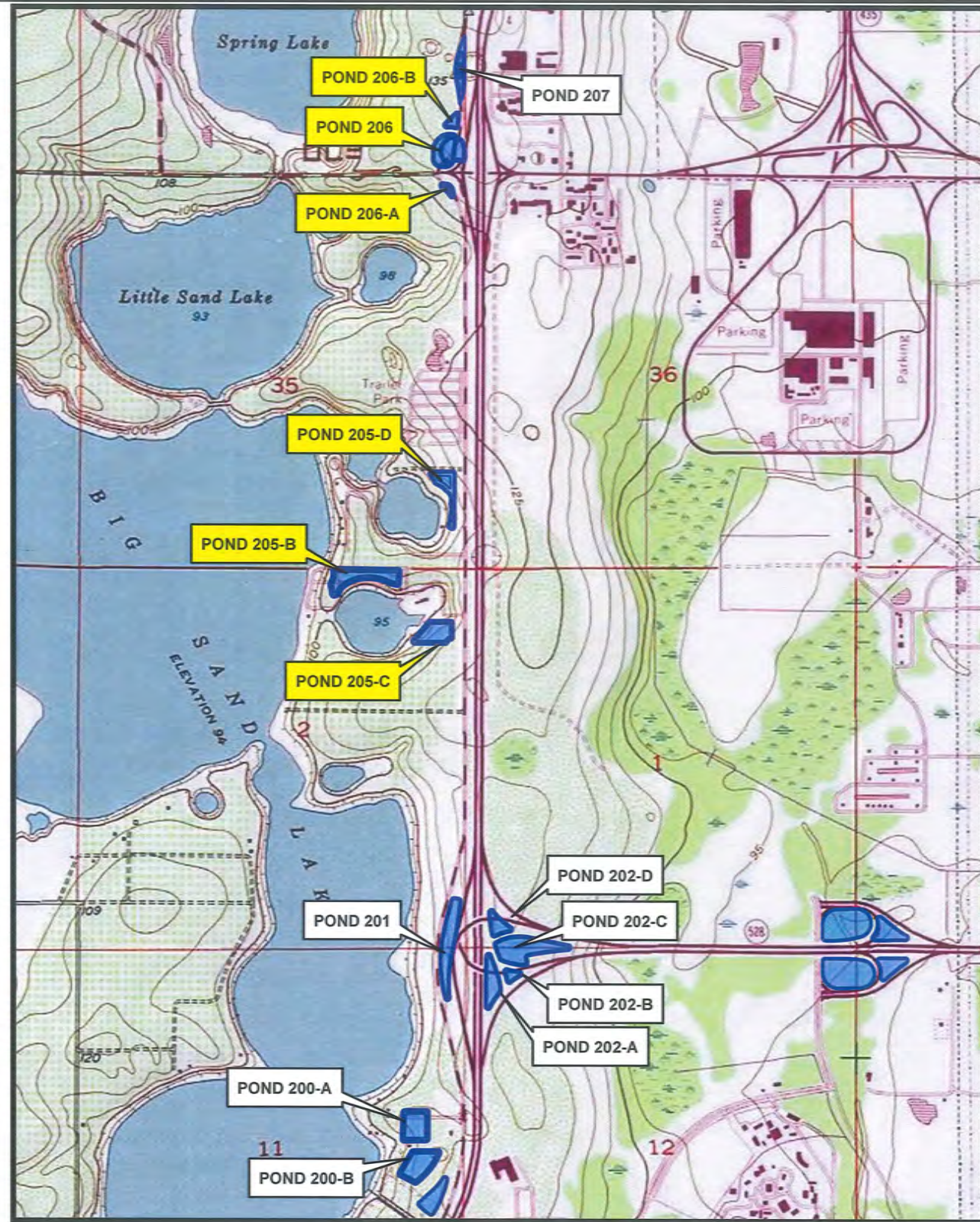
The conclusions or recommendations of this report should be disregarded if the nature, design or location of the proposed corridor and facilities is changed. If such changes are contemplated, GEC should be retained to review the new plans to assess the applicability of this report in light of proposed changes.

FIGURES

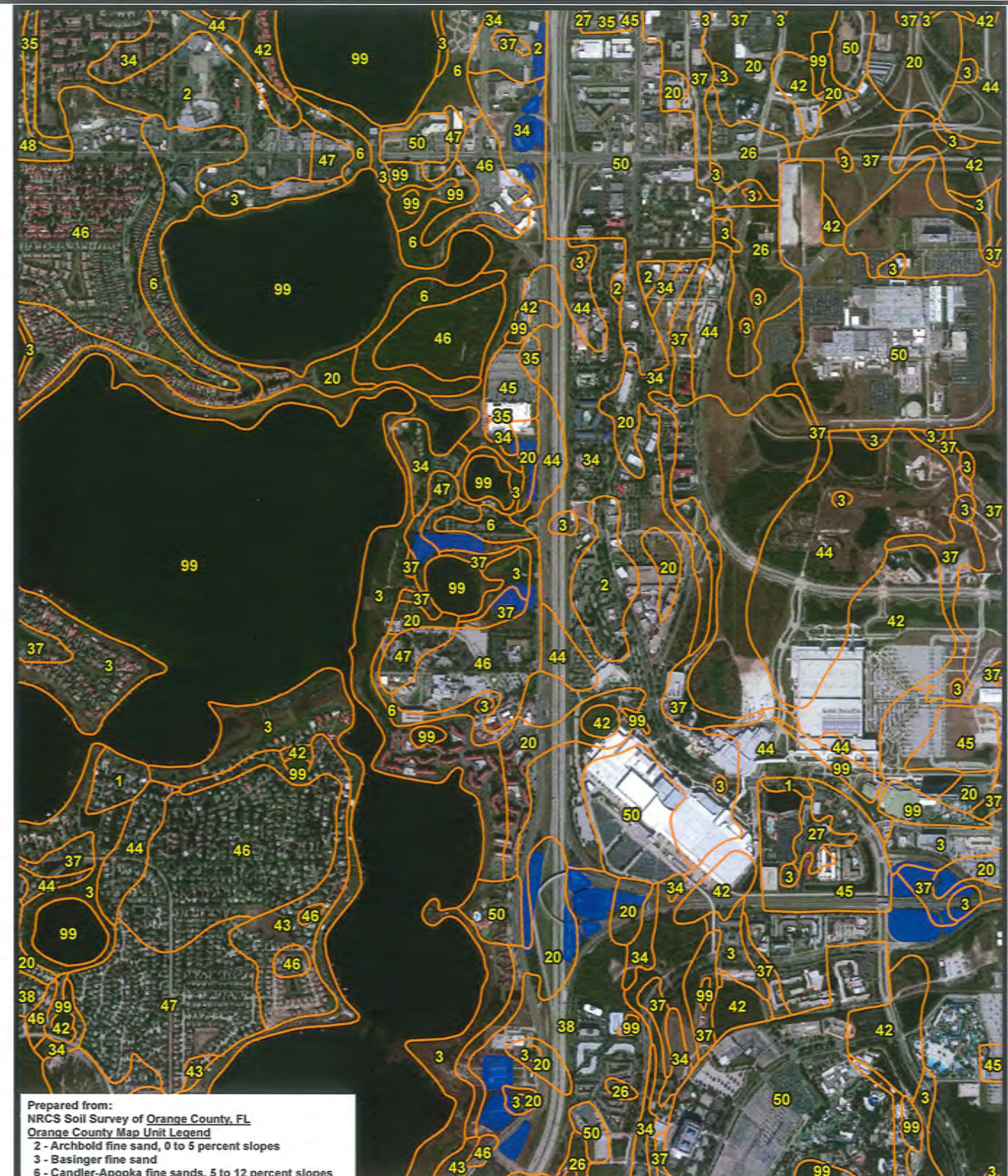


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FIGURE 1 - LAND USE PLAN



Prepared from:
 USGS Lake Jessamine, FL Quadrangle Map
 Sections: 35, 36 Sections: 1, 2, 11, 12
 Townships: 23 South Townships: 24 South
 Range: 28 East Range: 28 East



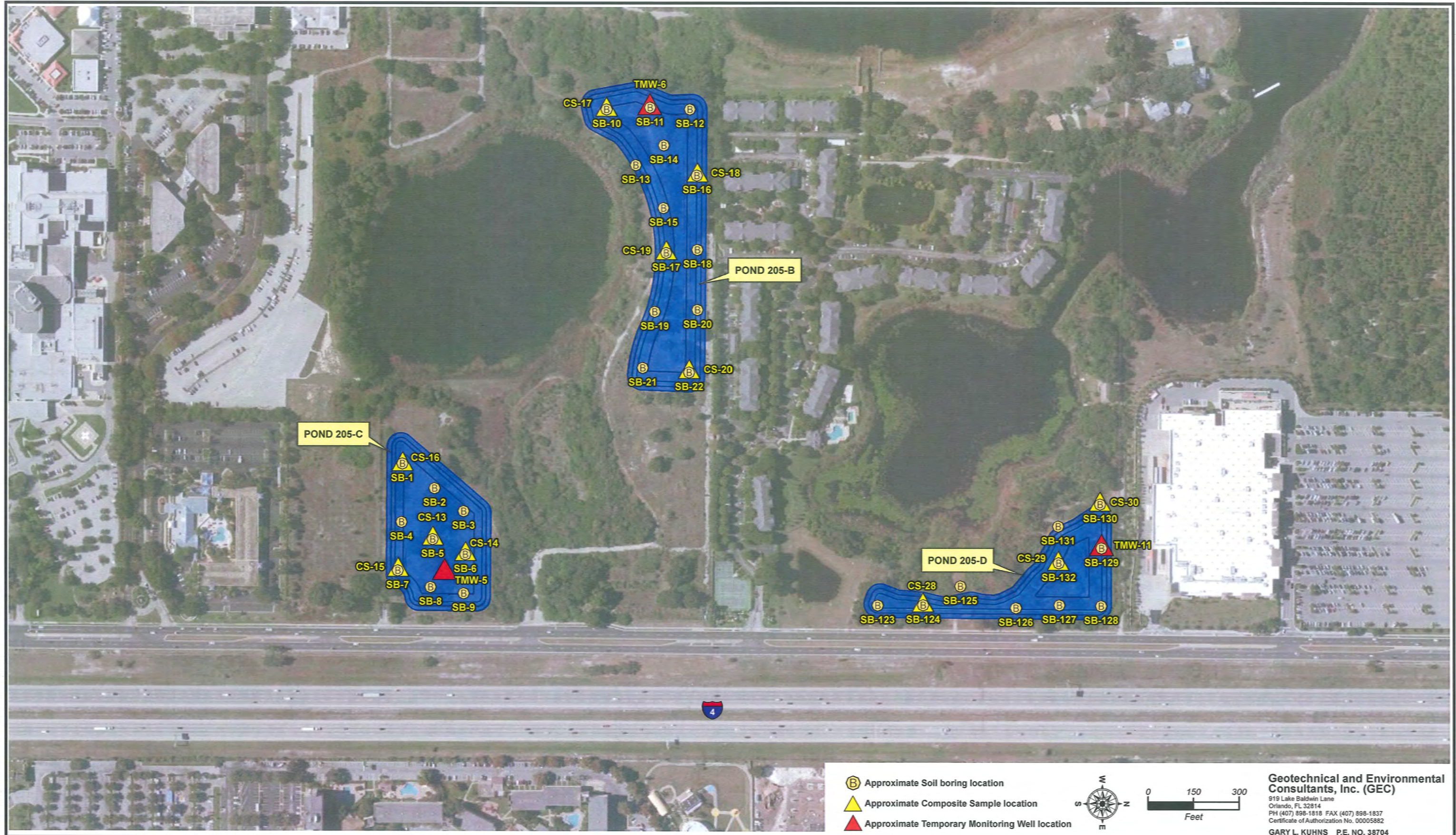
Prepared from:
 NRCS Soil Survey of Orange County, FL
 Orange County Map Unit Legend
 2 - Archbold fine sand, 0 to 5 percent slopes
 3 - Basinger fine sand
 6 - Candler-Apopka fine sands, 5 to 12 percent slopes
 20 - Immokalee fine sand
 34 - Pomello fine sand, 0 to 5 percent slopes
 37 - St. Johns fine sand
 38 - St. Lucie fine sand, 0 to 5 percent slopes
 44 - Smyrna fine sand
 46 - Tavares fine sand, 0 to 5 percent slopes
 47 - Tavares-Millhopper fine sands, 0 to 5 percent slopes
 50 - Urban land



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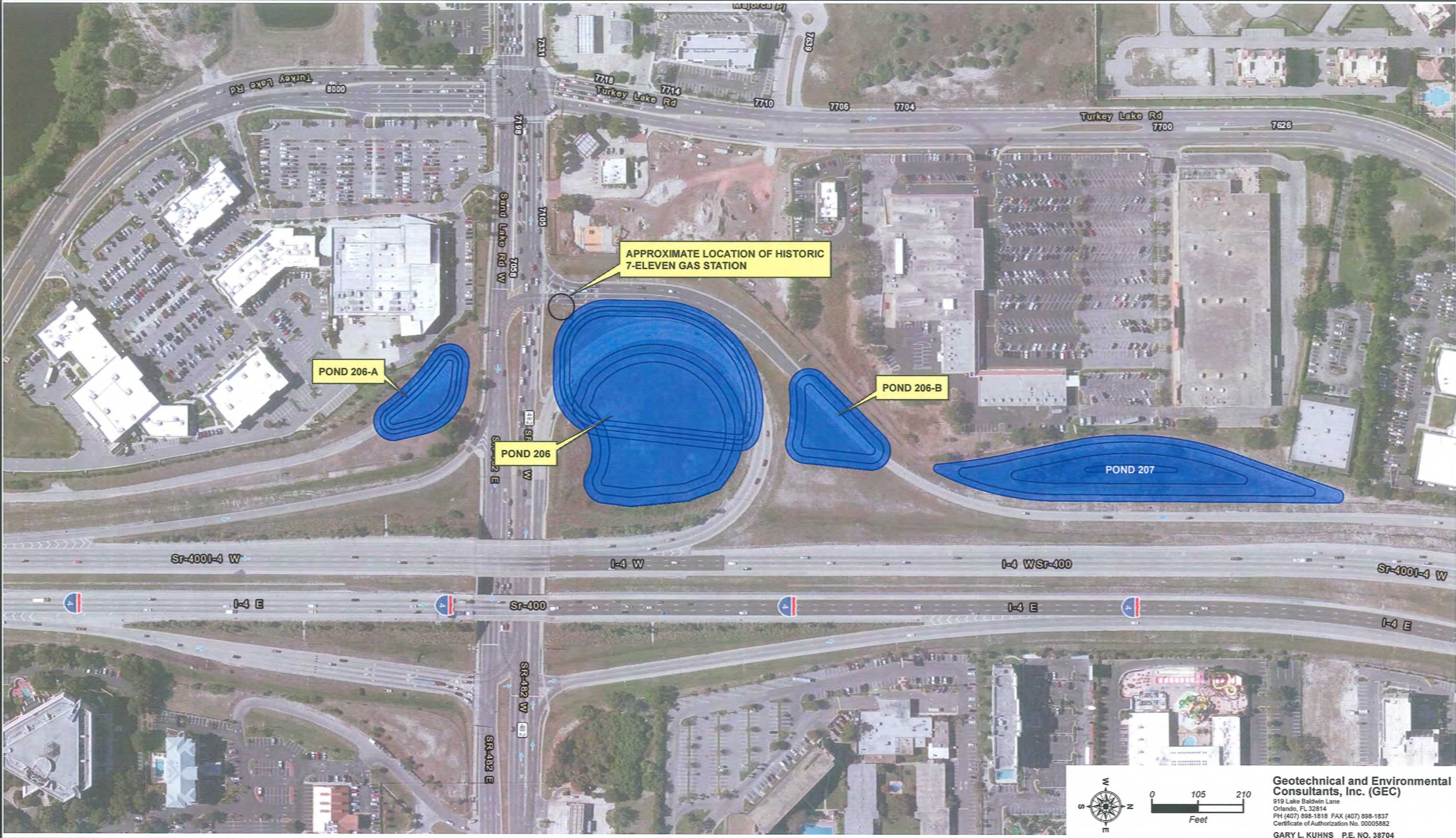
FIGURE 2 - USGS QUADRANGLE AND NRCS SOIL SURVEY MAPS



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FIGURE 3 - BORING LOCATION PLAN

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FIGURE 4 - PONDS 206, 206-A AND 206-B

TABLES

Table 1
Site-Specific Sampling, Analysis and Rationale
I-4 PD&E STUDY
Level 2 CIA for Ponds 205B, 205C, 205D, 206, 206A and 206B - Segment 2
FPID No. 432100-1-22-01
GEC Project No. 3492E

Site Name & Address	Sample ID	Matrix	Designated Analysis	Sampling Rationale
Pond 205 B	TMW-6	Groundwater	6010, 8081, 8151	Historic citrus grove and EDB groundwater contamination plume area. Groundwater sampled for arsenic, pesticides, and herbicides.
	CS-17 through CS-20	Soil	6010, 8081, 8151	Historic citrus grove and EDB groundwater contamination plume area. Soil sampled for arsenic, pesticides, and herbicides.
Pond 205 C	SB-9	Soil	6010, 7471, 8081, 8082, 8260, 8270, FL-Pro	Historic citrus grove and EDB groundwater contamination plume area. Elevated OVA readings at SB-9, SB-8, SB-6, and SB-5. Soil at SB-9 sampled for Table D Waste Oil Group.
	TMW-5	Groundwater	6010, 7471, 8081, 8082, 8260, 8270, FL-Pro	Historic citrus grove and EDB groundwater contamination plume area. Elevated OVA readings at SB-9, SB-8, SB-6, and SB-5. Groundwater at TMW-5 samples for Table D Waste Oil Group.
	CS-13 through CS-15	Soil	6010, 8081, 8151	Historic citrus grove and EDB groundwater contamination plume area. Soil sampled for arsenic, pesticides, and herbicides.
Pond 205 D	TMW-11	Groundwater	6010, 8081, 8151	Historic citrus grove and EDB groundwater contamination plume area. Groundwater sampled for arsenic, pesticides, and herbicides.
	CS-28 through CS-30	Soil	6010, 8081, 8151	Historic citrus grove and EDB groundwater contamination plume area. Soil sampled for arsenic, pesticides, and herbicides.
Ponds 206, 206A, 206B	None	None	None	Review files on FDEP OCULUS website for historical 7-Eleven facility.

Notes:

1. 6010 = Arsenic.
2. 7471 = Mercury.
3. 8260 = Volatile Organic Compounds.
4. 8270 = Semi-volatile Organic Compounds/Polycyclic Aromatic Hydrocarbons.
5. FL-PRO = Florida Petroleum Range Organics.
6. OVA = Organic Vapor Analyzer.
7. 8082 = Polychlorinated biphenyls.
8. 8141 = Organophosphorous compounds.
9. 8151 = Chlorinated herbicides.
10. 8081 = Organochlorine pesticides.

Table 2A
 Summary of Soil Organic Vapor Analysis
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205B
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Boring Data		Soil Sample OVA Data (FID)							
Boring No.	Date Conducted	Depth to Water (ft)	Sample Depth (ft)	PID	Total Reading	Filtered Reading	Net Reading	Odor	Soil Sample Description
SB-10	12/17/14		1		20	12	8	Organic	SPSM
			3		19	12	7	Organic	SPSM
			5		3	-	3	N	SPSM
			7		3	-	3	N	SPSM
		9	9		3	-	3	N	SPSM
SB-11	12/17/14		1		2	-	2	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		1	-	1	N	SPSM
			9		3	-	3	N	SPSM
			11		2	-	2	N	SM
		13	13		13	4	9	N	SM
SB-12	12/17/14		1		1	-	1	N	SPSM
			3		1	-	1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		7	-	7	N	SPSM
			9		4	-	4	N	SM
			11		<1	-	<1	N	CH
		13	13		2	-	2	N	SM
SB-13	12/17/14		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
			9		<1	-	<1	N	SPSM
		10	10		1	-	1	N	SPSM
SB-14	12/17/14		1		1	-	1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		1	-	1	N	SPSM
			7		<1	-	<1	N	SPSM
			9		2	-	2	N	SPSM
		10.5	11		1	-	1	N	SPSM
SB-15	12/17/14		1		1	-	1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
		9	9		<1	-	<1	N	SPSM
SB-16	12/17/14		1		5	-	5	N	SPSM
			3		1	-	1	N	SPSM
			5		1	-	1	N	SPSM
			7		2	-	2	N	SPSM
			9		1	-	1	N	SPSM
			11		1	-	1	N	SPSM
		12.5	13		1	-	1	N	SPSM

Table 2A
 Summary of Soil Organic Vapor Analysis
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205B
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Boring Data		Soil Sample OVA Data (FID)							
Boring No.	Date Conducted	Depth to Water (ft)	Sample Depth (ft)	PID	Total Reading	Filtered Reading	Net Reading	Odor	Soil Sample Description
SB-17	12/17/14		1		<1	-	<1	N	SPSM
			3		2	-	2	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
		8.5	9		<1	-	<1	N	SPSM
SB-18	12/17/14		1		1	-	1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
			9		<1	-	<1	N	SPSM
			11		<1	-	<1	N	SPSM
		12.5	13		<1	-	<1	N	SPSM
SB-19	12/17/14		1		1	-	1	N	SPSM
			3		1	-	1	N	SPSM
			5		1	-	1	N	SPSM
			7		<1	-	<1	N	SPSM
		8.5	9		<1	-	<1	N	SPSM
SB-20	12/17/14		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
			9		1	-	1	N	SPSM
			11		<1	-	<1	N	SPSM
		12.5	13		1	-	1	N	SPSM
SB-21	12/17/14		1		1	-	1	N	SPSM
			3		1	-	1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		1	-	1	N	SPSM
		8.5	9		3	-	3	N	SPSM
SB-22	12/17/14		1		<1	-	<1	N	SPSM
			3		1	-	1	N	SPSM
			5		1	-	1	N	SP
			7		<1	-	<1	N	SP
			9		1	-	1	N	SP
		10.5	11		<1	-	<1	N	SP

Notes:

1. Soil Screened with a Thermo Electron Corporation OVA Model TVA-1000B and measured in parts per million (ppm).
2. SP = poorly graded fine sand, SM = silty sand, SC = clayey sand, CH = inorganic clay, SPSM = fine sand with silt.
3. ft = feet.
4. FID = Flame Ionization Detector.
5. - = Filtered reading data not collected for total readings <10 ppm.
6. Net readings above 10 ppm indicate the potential presence of soil contamination.
7. GNE = Groundwater not encountered.

Table 2B
 Summary of Soil Organic Vapor Analysis
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205C
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Boring Data		Soil Sample OVA Data (FID)							
Boring No.	Date Conducted	Depth to Water (ft)	Sample Depth (ft)	FID	Total Reading	Filtered Reading	Net Reading	Odor	Soil Sample Description
SB-1	12/16/14		1		<1	-	<1	N	SPSM
			3		1	-	1	N	SPSM
			5		1	-	1	N	SPSM
			7		1	-	1	N	SPSM
		9.5	9		2	-	2	N	SPSM
			10		2	-	2	N	SPSM
SB-2	12/16/14		1		1	-	1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
			9		2	-	2	N	SPSM
		10	10		1	-	1	N	SPSM
SB-3	12/16/14		1		1	-	1	N	SPSM
			3		9	-	9	N	SPSM
			5		3	-	3	N	SPSM
			7		4	-	4	N	SPSM
			9		1	-	1	N	SPSM
			11		1	-	1	N	SPSM
			13		1	-	1	N	SPSM
			15		<1	-	<1	N	SPSM
			17		3	-	3	N	SPSM
			19		3	-	3	N	SPSM
		20	20		2	-	2	N	SM
SB-4	12/16/14		1		1	-	1	N	SPSM
			3		1	-	1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		1	-	1	N	SPSM
			9		<1	-	<1	N	SPSM
		10	10		<1	-	<1	N	SPSM
SB-5	12/16/14		1		17	2	15	N	SPSM
			3		1	-	1	N	SPSM
			5		2	-	2	N	SPSM
			7		108	15	93	N	SPSM
		8.5	9		52	11	41	N	SPSM

Table 2B
 Summary of Soil Organic Vapor Analysis
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205C
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Boring Data		Soil Sample OVA Data (FID)							
Boring No.	Date Conducted	Depth to Water (ft)	Sample Depth (ft)	FID	Total Reading	Filtered Reading	Net Reading	Odor	Soil Sample Description
SB-6	12/16/14		1		2	-	2	N	SPSM
			3		1	-	1	N	SPSM
			5		2	-	2	N	SPSM
			7		593	93	500	Organic	SM
			9		511	99	412	Organic	SM
			11		240	9	231	Organic	SM
			13		900	175	725	Organic	SPSM
			15		300	30	270	Organic	SPSM
			17		1304	95	1209	Organic	SPSM
			19		1500	256	1244	Organic	SPSM
	GNE	20		1300	230	1070	Organic	SPSM	
SB-7	12/16/14		1		2	-	2	N	SPSM
			3		2	-	2	N	SPSM
			5		2	-	2	N	SPSM
		7	7		4	-	4	N	SPSM
SB-8	12/16/14		1		<1	-	<1	N	SPSM
			3		1	-	1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		50	9	41	Organic	SPSM
		8.5	9		63	8	55	Organic	SPSM
SB-9	12/16/14		1		2	-	2	N	SPSM
			3		1	-	1	N	SPSM
			5		9	-	9	N	SM
			7		21	3	18	Organic	SM
			9		83	14	69	Organic	SM
			11		1800	371	1429	Organic	SM
			13		1300	279	1021	Organic	SM
			15		1500	1000	500	Organic	SM
			17		5000	30	4970	Organic	SM
			19		1200	51	1149	Organic	SM
	GNE	20		2900	376	2524	Organic	SM	

Notes:

1. Soil Screened with a Thermo Electron Corporation OVA Model TVA-1000B and measured in parts per million (ppm).
2. SP = poorly graded fine sand, SM = silty sand, SC = clayey sand, CH = inorganic clay SPSM = fine sand with silt.
3. ft = feet.
4. FID = Flame Ionization Detector.
5. - = Filtered reading data not collected for total readings <10 ppm.
6. Net readings above 10 ppm indicate the potential presence of soil contamination.
7. GNE = Groundwater not encountered.

Table 2C
 Summary of Soil Organic Vapor Analysis
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205D
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Boring Data		Soil Sample OVA Data (FID)							
Boring No.	Date Conducted	Depth to Water (ft)	Sample Depth (ft)	PID	Total Reading	Filtered Reading	Net Reading	Odor	Soil Sample Description
SB-123	02/09/15		1		<1	-	<1	N	SP
			3		<1	-	<1	N	SP
			5		<1	-	<1	N	SP
		5.5	6		<1	-	<1	N	SP
SB-124	02/09/15		1		97	97	<1	Organic	SPSM
			3		<1	-	<1	N	SPSM
		5	5		81	81	<1	Organic	SPSM
SB-125	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
		7	7		<1	-	<1	N	SPSM
SB-126	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
		5	5		<1	-	<1	N	SPSM
SB-127	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
		5	5		35	35	<1	Organic	SPSM
SB-128	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
		5	5		<1	-	<1	N	SPSM
SB-129	02/09/15		1		<1	-	<1	N	SPSM
			3		63	63	<1	Organic	SPSM
		5	5		97	97	<1	Organic	SPSM
SB-130	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SP
			5		<1	-	<1	N	SP
		6.5	7		<1	-	<1	N	SP
SB-131	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SP
			5		<1	-	<1	N	SP
		7	7		<1	-	<1	N	SPSM
SB-132	02/09/15		1		<1	-	<1	N	SPSM
			3		<1	-	<1	N	SPSM
			5		<1	-	<1	N	SPSM
			7		<1	-	<1	N	SPSM
		8.5	9		<1	-	<1	N	SPSM

Notes:

1. Soil Screened with a Thermo Electron Corporation OVA Model TVA-1000B and measured in parts per million (ppm).
2. SP = poorly graded fine sand, SM = silty sand, SC = clayey sand, CH = inorganic clay, SPSM = fine sand with silt.
3. ft = feet.
4. FID = Flame Ionization Detector.
5. - = Filtered reading data not collected for total readings <10 ppm.
6. Net readings above 10 ppm indicate the potential presence of soil contamination.
7. GNE = Groundwater not encountered.

Table 3A
Soil Analytical Laboratory Results
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205C - Segment 2
FPID No. 432100-1-22-01
GEC Project No. 3492E

Sample Name	SB-9	FAC 62-777 SCTL		
Sample Interval (ft bls)	17	RSCTL	ISCTL	LSCTL
Sample Date	12/19/2014			
Barium - Total	28.3	120	130,000	1,600
Cadmium - Total	0.0123 I	82	1,700	7.5
Acetone	0.053 V	11,000	68,000	25
Cadmium - Total	CS-28	82	1,700	7.5
Chromium - Total	5.81	210	470	38
Lead - Total	3.47	400	1,400	*
Mercury - Total	0.0322	3	17	2.1

Notes:

1. All measurements are in mg/kg - milligrams per kilogram.
2. RSCTL - Soil Cleanup Target Level (SCTL) for residential land use.
3. ISCTL - SCTL for industrial/commercial land use.
4. LSCTL - SCTL for leachability based upon groundwater criteria.
5. FAC - Florida Administrative Code.
6. "U" - parameter not detected at the method detection limit shown.
7. TCLP - Toxic Characteristic Leachate Procedure.
8. "I" - analyte detected between the method detection limits and the practical quantitation limits.
9. "V" - Indicates that the analytes was detected in both the sample and associated method blank.
10. TPH - Total Petroleum Hydrocarbons.
11. ft bls - feet below land surface.
12. * - Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.
13. # - Must be converted into Benzo(a)pyrene Equivalents.

Table 3B
 Soil Analytical Laboratory Results
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205C - Segment 2
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Sample Name	CS-15	FAC 62-777 SCTL		
Sample Interval (ft bls)	0 - 2	RSCTL	ISCTL	LSCTL
Sample Date	12/19/2014			
Arsenic - Total	0.603 I	2.1	12	*

Notes:

1. All measurements are in mg/kg - milligrams per kilogram.
2. RSCTL - Soil Cleanup Target Level (SCTL) for residential land use.
3. ISCTL - SCTL for industrial/commercial land use.
4. LSCTL - SCTL for leachability based upon groundwater criteria.
5. FAC - Florida Administrative Code.
6. "U" - parameter not detected at the method detection limit shown.
7. TCLP - Toxic Characteristic Leachate Procedure.
8. "I" - analyte detected between the method detection limits and the practical quantitation limits.
9. "V" - Indicates that the analytes was detected in both the sample and associated method blank.
10. TPH - Total Petroleum Hydrocarbons.
11. ft bls - feet below land surface.
12. * - Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.
13. # - Must be converted into Benzo(a)pyrene Equivalents.

Table 3C
 Soil Analytical Laboratory Results
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205B - Segment 2
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Sample Name	CS-20	FAC 62-777 SCTL		
Sample Interval (ft bls)	0 - 2	RSCTL	ISCTL	LSCTL
Sample Date	12/19/2014			
Chlordane (Tech)	0.72	---	---	---
Chlordane - alpha	0.22	---	---	---
Chlordane - gamma	0.19	---	---	---
Chlordane - Total	1.13	3	14	9.6

Notes:

1. All measurements are in mg/kg - milligrams per kilogram.
2. RSCTL - Soil Cleanup Target Level (SCTL) for residential land use.
3. ISCTL - SCTL for industrial/commercial land use.
4. LSCTL - SCTL for leachability based upon groundwater criteria.
5. FAC - Florida Administrative Code.
6. "U" - parameter not detected at the method detection limit shown.
7. TCLP - Toxic Characteristic Leachate Procedure.
8. "I" - analyte detected between the method detection limits and the practical quantitation limits.
9. "V" - Indicates that the analytes was detected in both the sample and associated method blank.
10. TPH - Total Petroleum Hydrocarbons.
11. ft bls - feet below land surface.
12. * - Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present.
13. # - Must be converted into Benzo(a)pyrene Equivalents.

Table 4
 Groundwater Analytical Laboratory Results
I-4 PD&E STUDY
Level 2 Contamination Assessment for Pond 205C - Segment 2
 FPID No. 432100-1-22-01
 GEC Project No. 3492E

Sample Name	TMW-5	FAC 62-777
Sample Interval (ft bls)	1.8 - 6.8	GCTL
Sample Date	12/19/2014	
Barium - Total	7.23 l	2,000
Methylene Chloride	2.2 l	5.0

Notes:

1. All concentrations reported in µg/L (micrograms per liter).
2. FAC - Florida Administrative Code.
3. GCTL - Groundwater Cleanup Target Level.
4. ft bls - feet below land surface.
5. "l" - Analyte detected between the detection method limits and the practical quantitation limit.
6. "N" Presumptive evidence of presence of material.

APPENDIX A

Field Forms

APPENDIX A-1

Soil Boring Logs

BORING LOG

Page 1 of 1

Boring/Well Number: SB-1		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/6/14		Borehole Start Time: 1628 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/14/14		End Time: 1640 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 10.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 9.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	1	1	1	Bm Fisa, w/silt	Spsm	D	3-16 on 2.0
								2				
					1	1	1	3	Bm Fisa, w/silt	Spsm	D	
								4				
					1	1	1	5	Bm Fisa, w/silt	Spsm	D	
								6				
					1	1	1	7	Bm Fisa, w/silt	Spsm	D	
								8				
					2	2	2	9	Bm Fisa, w/silt	Spsm	W	
					2	2	2	10	Bm Fisa, w/silt	Spsm	S	
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB-2		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/10/14		Borehole Start Time: 1708 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/10/14		End Time: 1721 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 10.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 10.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	1	Bm Fisa, w/silt	SPSM	D	
								2				
					2	-	2	3	Bm Fisa, w/silt	SPSM	D	
								4				
					2	-	2	5	Bm Fisa, w/silt	SPSM	D	
								6				
					2	-	2	7	Bm Fisa, w/silt	SPSM	D	
								8				
					2	-	2	9	Bm Fisa, w/silt	SPSM	M	
					1	-	1	10	Bm Fisa, w/silt	SPSM	W	
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 2

Boring/Well Number: SB- 3		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/16/14		Borehole Start Time: 1511 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1521 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 20.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 20.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	①	Bm Fisa, w/silt	SPsm	D	
								2				
					9	-	9	③	DRK Bm silt Fisa,	SM	D	
								4				
					3	-	3	⑤	Bm Fisa, w/silt	SPsm	D	
								6				
					4	-	4	⑦	Bm Fisa, w/silt	SPsm	D	
								8				
					1	-	1	⑨	Bm Fisa, w/silt	SPsm	D	
								10				
					1	-	1	⑪	Bm Fisa, w/silt	SPsm	D	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: <u>SB-3</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <u>POWD-205A</u>		Borehole Start Date: <u>12/16/14</u>		Borehole Start Time: <u>1511</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: <u>12/16/14</u>		End Time: <u>1521</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <u>REC</u>		Geologist's Name: <u>R. McCORMICK</u>		Environmental Technician's Name: <u>J. Governale</u>	
Drilling Company: <u>REC</u>		Pavement Thickness (inches):		Borehole Diameter (inches): <u>3"</u>	
				Borehole Depth (feet):	
Drilling Method(s): <u>HA</u>		Apparent Borehole DTW (in feet from soil moisture content): <u>20.0</u>		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	13	BM Fisa, w/silt	SPSM	D	
								14				
					2	-	2	15	BM Fisa, w/silt	SPSM	D	
								16				
					3	-	3	17	BM Fisa, w/silt	SPSM	M	
								18				
					3	-	3	19	BM Fisa, w/silt	SPSM	W	
					2	-	2	20	BM Fisa, w/silt	SPSM	S	
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB-4		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/16/14		Borehole Start Time: 1608 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1616 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 10.0'
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 10.6		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	①	Bm Fisa, w/silt	SPM	D	
								2				
					1	-	1	③	Bm Fisa, w/silt	SPM	D	
								4				
					<1	-	<1	⑤	Bm Fisa, w/silt	SPM	D	
								6				
					1	-	1	⑦	Bm Fisa, w/silt	SPM	D	
								8				
					<1	-	<1	⑨	Bm Fisa, w/silt	SPM	M	
					<1	-	<1	⑩	Bm Fisa, w/silt	SPM	S	
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB-5		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/16/14		Borehole Start Time: 1414 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1426 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					17	2	15	①	Bm Fisa, w/silt	SPSM	D	CG-13 0-2.0
					1	-	1	③	Bm Fisa, w/silt	SPSM	D	
					2	-	2	⑤	Bm Fisa, w/silt	SPSM	D	
					108	15	93	⑦	Bm Fisa, w/silt	SPSM	M	
					52	11	41	⑨	Bm Fisa, w/silt	SPSM	S	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 2

Boring/Well Number: SB-6		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/10/14		Borehole Start Time: 1306 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/14/14		End Time: 1213 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. MC Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A		Borehole Diameter (inches): 3"	
				Borehole Depth (feet): 20.0'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): ONE 210		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					2	-	2	①	Bm Fisa, w/silt	SPSM	D	CS-14 0-2
								2				
					1	-	1	③	Bm Fisa, w/silt	SPSM	D	
								4				
					2	-	2	⑤	Bm Fisa, w/silt	SPSM	D	
								6				
					593	93	500	⑦	DMK Bm silty Fisa, (organic odor)	SM	M	
								8				
					511	99	412	⑨	Bm Fisa, w/silt (organic odor)	SM	M	
								10				
					240	9	231	⑪	Bm Fisa, w/silt (organic odor)	SM	M	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-6		Permit Number:		FDEP Facility Identification Number:	
Site Name: POND 205-A		Borehole Start Date: 12/16/14		Borehole Start Time: 1306 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1313 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 20.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): ONE 20'		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
<i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					900	175	725	13	Bm Fiso, w/silt (organic odor)	SPSM	M	
					300	30	270	15	Bm Fiso, w/silt (organic odor)	SPSM	M	
					1304	95	1209	17	Bm Fiso, w/silt (organic odor)	SPSM	M	
					1500	256	1244	19	Bm Fiso, w/silt (organic odor)	SPSM	M	
					1300	230	1070	20	Bm Fiso, w/silt (organic odor)	SPSM	M	
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-7		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/16/14		Borehole Start Time: 1535 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1546 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 7.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 7.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					2	-	2	1	Bm Fisa, w/silt	SPM	D	CS-16
					2	-	2	3	Bm Fisa, w/silt	SPM	D	
					2	-	2	5	Bm Fisa, w/silt	SPM	M	
					4	-	4	7	Bm Fisa, w/silt	SPM	W	
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-8		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/10/14		Borehole Start Time: 1445 <input type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1458 <input type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A		Borehole Diameter (inches): 3"	
				Borehole Depth (feet): 9.0	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	Bm Fisa, w/silt	SPM	D	
								2				
					1	-	1	③	Bm Fisa, w/silt	SPM	D	
								4				
					<1	-	<1	⑤	Bm Fisa, w/silt	SPM	M	
								6				
					50	9	41	⑦	Bm Fisa, w/silt (Organic odor)	SPM	M	
								8				
					63	8	55	⑨	Bm Fisa, w/silt (Organic odor)	SPM	W	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-9		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-A		Borehole Start Date: 12/10/14		Borehole Start Time: 1320 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: 1328 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 20.0'
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 6.5' @ 6'		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (Inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					2	-	2	①	Brn Fisa, w/silt	SPM	D	
								2				
					1	-	1	③	Brn Fisa, w/silt	SPM	D	
								4				
					9	-	9	⑤	Drk Brn silty Fisa	SM	D	
								6				
					21	3	18	⑦	Drk Brn silty Fisa, (organic odor)	SM	M	
								8				
					83	14	69	⑨	Drk Brn silty Fisa, (organic odor)	SM	M	
								10				
					1800	371	1429	⑪	Drk Brn silty Fisa, (organic odor)			
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-9		Permit Number:		FDEP Facility Identification Number:	
Site Name: POWD		Borehole Start Date: 12/16/14		Borehole Start Time: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/16/14		End Time: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A		Borehole Diameter (inches): 3"	
				Borehole Depth (feet): 20.0	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): GNE020'		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1300	279	1021	13	DKK Bnu silty Fisa, (organic odor)	SM	W	
					1500	1000	500	15	DKK Bnu silty Fisa, (organic odor)	SM	M	
					5000	30	4970	17	DKK Bnu silty Fisa, (organic odor)	SM	M	Take @ 17.0'
					1200	51	1149	19	DKK Bnu silty Fisa, (organic odor)	SM	M	
					2900	376	2524	20	DKK Bnu silt Fisa (organic odor)	SM	M	
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-10		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 10 38 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1041 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 9.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					20	12	8	①	Bm Fisa, w/silt (organic odor)	SPSM	D	CS-17
								2				
					19	12	7	③	Bm Fisa, w/silt (organic odor)	SPSM	D	
								4				
					3	-	3	⑤	Bm Fisa, w/silt	SPSM	D	
								6				
					3	-	3	⑦	Bm Fisa, w/silt	SPSM	M	
								8				
					3	-	3	⑨	Bm Fisa, w/silt	SPSM	S	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-11		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1100 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1112 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 13.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					2	-	2	①	Bm Fisa, w/silt	SPSM	D	
					2			2				
					2	-	2	③	Bm Fisa, w/silt	SPSM	D	
					4			4				
					2	-	2	⑤	Bm Fisa, w/silt	SPSM	D	
					6			6				
					1	-	1	⑦	Bm Fisa, w/silt	SPSM	D	
					8			8				
					3	-	3	⑨	Bm Fisa, w/silt	SPSM	D	--- Screen
					10			10				
					2	-	2	⑪	Gray silty Fisa,	SM	W	
					12			12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-11		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1100 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1112 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): AB	Apparent Borehole DTW (in feet from soil moisture content): 13.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples <small>(list sample number and depth or temporary screen interval)</small>
					13	4	9	13	Gray silty Fisa,	sm	5	Screen
								14				-----
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: <u>SB-12</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <u>Pond 205-B</u>		Borehole Start Date: <u>12/17/14</u>		Borehole Start Time: <u>1230</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: <u>12/17/14</u>		End Time: <u>1248</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <u>GEC</u>		Geologist's Name: <u>R. MC Cormick</u>		Environmental Technician's Name: <u>J. Governale</u>	
Drilling Company: <u>GEC</u>		Pavement Thickness (inches): <u>N/A</u>	Borehole Diameter (inches): <u>3"</u>		Borehole Depth (feet):
Drilling Method(s): <u>HA</u>	Apparent Borehole DTW (in feet from soil moisture content): <u>130</u>		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	①	Bm Fisa, w/silt	SPsm	D	
					1	-	1	③	Bm Fisa, w/silt	SPsm	D	
					<1	-	<1	⑤	Bm Fisa, w/silt	SPsm	D	
					7	-	7	⑦	Bm silty Fisa,	SM	M	
					4	-	4	⑨	Gray silty Fisa,	SM	M	
					<1	-	<1	⑪	Gray sand Fat Cby	CH	M	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-12		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1230 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1248 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Groves	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): AB	Apparent Borehole DTW (in feet from soil moisture content): 13.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples <small>(list sample number and depth or temporary screen interval)</small>
					2	1	2	13	Gray silty F ₁₅₀	SM S		
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-13		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1248 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1809 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 10.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 16.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	Brn Fisa, w/silt	SPSM	D	
								2				
					<1	-	<1	③	Brn Fisa, w/silt	SPSM	D	
								4				
					<1	-	<1	⑤	Brn Fisa, w/silt	SPSM	D	
								6				
					<1	-	<1	⑦	Brn Fisa, w/silt	SPSM	D	
								8				
					<1	-	<1	⑨	Brn Fisa, w/silt	SPSM	W	
					1	-	1	⑩	Brn Fisa, w/silt	SPSM	S	
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-14		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1320 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1333 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 11.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 10.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	①	Bm Fiso, w/silt	SPsu	D	
								2				
					<1	-	<1	③	Bm Fiso, w/silt	SPsu	D	
								4				
					1	-	1	⑤	Bm Fiso, w/silt	SPsu	D	
								6				
					<1	-	<1	⑦	Bm Fiso, w/silt	SPsu	D	
								8				
					2	-	2	⑨	Bm Fiso, w/silt	SPsu	M	
								10				
					1	-	1	⑪	Bm Fiso, w/silt	SPsu	S	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-15		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1030 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1030 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A		Borehole Diameter (inches): 3"	
				Borehole Depth (feet): 9.0	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): 9.0		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	1	1	①	Bm Fisa, w/silt	SPSM	D	
					2			2				
					3	3	3	③	Bm Fisa, w/silt	SPSM	D	
					4			4				
					5	5	5	⑤	Bm Fisa, w/silt	SPSM	D	
					6			6				
					7	7	7	⑦	Bm Fisa, w/silt	SPSM	W	
					8			8				
					9	9	9	⑨	Bm Fisa, w/silt	SPSM	S	
					10			10				
					11			11				
					12			12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-16		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1230 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1230 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 12.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					5	-	5	①	Bru Fisa, w/silt organic odor	SFSM	D	CS-18 0-2.0
								2				
					1	-	1	③	Bru Fisa, w/silt	SFSM	D	
								4				
					1	-	1	⑤	Bru Fisa, w/silt	SFSM	D	
								6				
					2	-	2	⑦	Bru Fisa, w/silt	SFSM	W	
								8				
					1	-	1	⑨	Bru Fisa, w/silt	SFSM	W	
								10				
					1	-	1	⑪	Bru Fisa, w/silt	SFSM	W	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-16		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1226 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1230 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEL		Geologist's Name: R. McCormick		Environmental Technician's Name: Terry W. Goumeck	
Drilling Company: GEL		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): AB	Apparent Borehole DTW (in feet from soil moisture content): 12.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples <small>(list sample number and depth or temporary screen interval)</small>
					1	-	1	13	Bun Fisa, w/sim	SASM	S	
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-17		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1000 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1012 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (Inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					L1	-	L1	①	Bm Fisa, w/silt	SPSM D		CS-19 0-2.0
					2			2				
					2	-	2	③	Bm Fisa, w/silt	SPSM D		
								4				
					L1	-	L1	⑤	Bm Fisa, w/silt	SPSM D		
								6				
					L1	-	L1	⑦	Bm Fisa, w/silt	SPSM W		
								8				
					L1	-	L1	⑨	Bm Fisa, w/silt	SPSM W		
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-18		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/1/14		Borehole Start Time: 1345 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/1/14		End Time: 1405 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 12.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	1	1	①	Bm Fisa, w/silt	SPSM	Δ	
					2	2	2	2				
					2	2	2	③	Bm Fisa, w/silt	SPSM	Δ	
					4	4	4	4				
					4	4	4	⑤	Bm Fisa, w/silt	SPSM	Δ	
					6	6	6	6				
					6	6	6	⑦	Bm Fisa, w/silt	SPSM	Δ	
					8	8	8	8				
					8	8	8	⑨	Bm Fisa, w/silt		Δ	
					10	10	10	10				
					10	10	10	⑪	Bm Fisa, w/silt	SPSM	Δ	
					12	12	12	12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: SB-18		Permit Number:		FDEP Facility Identification Number:	
Site Name: POND		Borehole Start Date: 12/17/14		Borehole Start Time: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 12/17/14		End Time: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. McCormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 12.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	<1	<1	13	Bm Fisa, w/silt	SPeM	5	
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-19		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/11/14		Borehole Start Time: 1120 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/11/14		End Time: 1133 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	1	1	①	Bm Fisa, w/silt	SISA	D	
								2				
					1	1	1	③	Bm Fisa, w/silt	SISA	D	
								4				
					1	1	1	⑤	Bm Fisa, w/silt	SISA	D	
								6				
					<1	<1	<1	⑦	Bm Fisa, w/silt	SISA	W	
								8				
					<1	<1	<1	⑨	Bm Fisa, w/silt	SISA	S	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-20		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 14020 <input type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1430 <input type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 13.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 12.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					L1	-	L1	①	Bm F150, w/silt	SM		
								2				
					L1	-	L1	③	Bm F150, w/silt	SM		
								4				
					L1	-	L1	⑤	Bm F150, w/silt	SM		
								6				
					L1	-	L1	⑦	Bm F150, w/silt	SPSM	D	
								8				
					1	-	1	⑨	Bm F150, w/silt	SPSM	D	
								10				
					L1	-	L1	⑪	Bm F150, w/silt	SPSM	W	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: <u>SB-20</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <u>Pond 205-B</u>		Borehole Start Date: <u>12/17/14</u>		Borehole Start Time: <u>1420</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: <u>12/17/14</u>		End Time: <u>1430</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <u>GBC</u>		Geologist's Name: <u>R. M. McCormick</u>		Environmental Technician's Name: <u>J. Governale</u>	
Drilling Company: <u>GBC</u>		Pavement Thickness (inches): <u>N/A</u>	Borehole Diameter (inches): <u>3"</u>		Borehole Depth (feet): <u>13.0</u>
Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content): <u>12.5</u>		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	13	Bm F ₅₀ , w/silt	SPM	S	
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-21		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 205-B		Borehole Start Date: 12/17/14		Borehole Start Time: 1143 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/17/14		End Time: 1158 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: R. Mc Cormick		Environmental Technician's Name: J. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					1	-	1	①	Bm Fisa, w/silt	SPSM	D	
					1	-	1	③	Bm Fisa, w/silt	SPSM	D	
					<1	-	<1	⑤	Bm Fisa, w/silt	SPSM	D	
					1	-	1	⑦	Bm Fisa, w/silt	SPSM	M	
					3	-	3	⑨	Bm Fisa, w/silt	SPSM	S	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: <u>SB-22</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <u>Pond 205-B</u>		Borehole Start Date: <u>12/17/14</u>	Borehole Start Time: <u>1205</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	End Date: <u>12/17/14</u>	End Time: <u>1218</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
Environmental Contractor: <u>GEC</u>		Geologist's Name: <u>R. McCormick</u>		Environmental Technician's Name: <u>J. Governale</u>	
Drilling Company: <u>GEC</u>		Pavement Thickness (inches): <u>N/A</u>	Borehole Diameter (inches): <u>3"</u>		Borehole Depth (feet): <u>11.0</u>
Drilling Method(s): <u>HA</u>	Apparent Borehole DTW (in feet from soil moisture content): <u>10.5</u>	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	Bm Fisa, w/silt	SP	D	CS-20 0-2.0
					1	-	1	③	Bm Fisa, w/silt	SP	D	
					1	-	1	⑤	Lt Bm Fisa,	SP	D	
					<1	-	<1	⑦	Gray Fisa,	SP	W	
					1	-	1	⑨	Gray Fisa	SP	M	
					<1	-	<1	⑪	Gray Fisa,	SP	S	
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page _____ of _____

Boring/Well Number: <i>58-123</i>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <i>Pond 2050</i>		Borehole Start Date: <i>2/9/15</i>		Borehole Start Time: <i>0945</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: <i>2/9/15</i>		End Time: <i>1000</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: <i>GEC</i>		Geologist's Name: <i>Rich McCormick</i>		Environmental Technician's Name: <i>Jerry W. Governale</i>	
Drilling Company: <i>GEC</i>		Pavement Thickness (inches): <i>N/A</i>	Borehole Diameter (inches): <i>3"</i>		Borehole Depth (feet): <i>6.0</i>
Drilling Method(s): <i>HAS</i>	Apparent Borehole DTW (in feet from soil moisture content): <i>5.5</i>		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <i>(describe if other or multiple items are checked):</i>					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	Gray Fisa,	(SA)	W	
					<1	-	<1	③	BM Fisa,	(SA)	W	
					<1	-	<1	⑤	Gray Fisa,	(SA)	W	
					<1	-	<1	⑥	Gray Fisa,	(SA)	S	
								7				
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: <i>SB-124</i>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <i>Pond 2050</i>		Borehole Start Date: <i>2/9/15</i>	Borehole Start Time: <i>1005</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
		End Date: <i>2/9/15</i>	End Time: <i>1018</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Environmental Contractor: <i>GEC</i>		Geologist's Name: <i>Rich McCormick</i>		Environmental Technician's Name: <i>Jerry W. Governale</i>	
Drilling Company: <i>GEC</i>		Pavement Thickness (inches): <i>N/A</i>	Borehole Diameter (inches): <i>3"</i>		Borehole Depth (feet): <i>5.0</i>
Drilling Method(s): <i>HAS</i>		Apparent Borehole DTW (in feet from soil moisture content): <i>5.0</i>	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<i>97</i>	<i>97</i>	<i><1</i>	<i>①</i>	<i>DRK BRN Fiso, w/silt Tr-organic</i>	<i>SSSM</i>	<i>D</i>	<i>organic odor</i>
					<i><1</i>	<i>-</i>	<i><1</i>	<i>②</i>				
					<i><1</i>	<i>-</i>	<i><1</i>	<i>③</i>	<i>BRN Fiso, w/silt</i>	<i>SSSM</i>		
					<i>81</i>	<i>81</i>	<i><1</i>	<i>⑤</i>	<i>BRN Fiso, w/silt Tr-organic</i>	<i>SSSM</i>		<i>organic odor</i>
								<i>6</i>				
								<i>7</i>				
								<i>8</i>				
								<i>9</i>				
								<i>10</i>				
								<i>11</i>				
								<i>12</i>				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page _____ of _____

Boring/Well Number: 58-125		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 2/9/15 End Date: 2/9/15		Borehole Start Time: 1030 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM End Time: 1040 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 7.0
Drilling Method(s): HAS	Apparent Borehole DTW (in feet from soil moisture content): 7.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <i>(describe if other or multiple items are checked):</i>					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	L1	①	BRN Fisa, w/silt	SASM	D	
					<1	-	L1	2				
					<1	-	L1	③	BRN Fisa, w/silt	SASM	D	
								4				
					<1	-	L1	⑤	BRN Fisa, w/silt	SASM	M	
								6				
					<1	-	L1	⑦	BRN Fisa, w/silt	SASM	S	
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: <i>SB-126</i>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <i>Pond 2050</i>		Borehole Start Date: <i>2/11/15</i> End Date: <i>2/19/15</i>		Borehole Start Time: <i>1250</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM End Time: <i>1300</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <i>GEC</i>		Geologist's Name: <i>Rich McCormick</i>		Environmental Technician's Name: <i>Jerry W. Governale</i>	
Drilling Company: <i>GEC</i>		Pavement Thickness (inches): <i>N/A</i>	Borehole Diameter (inches): <i>3"</i>		Borehole Depth (feet): <i>5.0</i>
Drilling Method(s): <i>HAS</i>	Apparent Borehole DTW (in feet from soil moisture content): <i>50</i>		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <i>(describe if other or multiple items are checked):</i>					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	BRN Fisa, w/silt	SPU	1	
					<1	-	<1	③	BRN Fisa, w/silt	SPU	1	
					<1	-	<1	⑤	BRN Fisa, w/silt	SPU	5	
								2				
								4				
								6				
								7				
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: <u>SB-127</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <u>Pond 2050</u>		Borehole Start Date: <u>2/9/15</u>		Borehole Start Time: <u>1235</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: <u>2/9/15</u>		End Time: <u>1245</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <u>GEC</u>		Geologist's Name: <u>Rich McCormick</u>		Environmental Technician's Name: <u>Jerry W. Governale</u>	
Drilling Company: <u>GEC</u>		Pavement Thickness (inches): <u>N/A</u>	Borehole Diameter (inches): <u>3"</u>		Borehole Depth (feet): <u>5.0</u>
Drilling Method(s): <u>HAS</u>	Apparent Borehole DTW (in feet from soil moisture content): <u>5.0</u>		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	BRN Fisa, w/silt	SPcu	↓	
					<1	-	<1	③	BRN Fisa, w/silt	SPcu	↓	
					35	35	<1	⑤	BRN Fisa, w/silt	SPcu	5'	engineer's screen
								6				
								7				
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page _____ of _____

Boring/Well Number: SB-128		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 2/9/15 End Date: 2/9/15		Borehole Start Time: 1230 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM End Time: 1240 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 5.0
Drilling Method(s): HAS	Apparent Borehole DTW (in feet from soil moisture content): 5.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):					
<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
Borehole Completion (check one):					
<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	>1	①	BRN Fisa, w/silt	SP5	D	
					<1	-	>1	③	BRN Fisa, w/silt	SP5	D	
					<1	-	>1	⑤	BRN Fisa, w/silt	SP5	S	
								6				
								7				
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: 58-129		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 2/9/15	Borehole Start Time: 1218 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	End Date: 2/9/15	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"	Borehole Depth (feet): 5.0	
Drilling Method(s): HAS		Apparent Borehole DTW (in feet from soil moisture content): 5.0	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					41	41	41	①	BRN Fiso, w/silt	SP10	D	
					63	63	41	③	BRN Fiso, w/silt	SP10	M	organic odor
					97	97	41	③	BRN Fiso, w/silt	SP10	S	organic odor

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: 58-130		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 2/9/15		Borehole Start Time: 1208 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 2/9/15		End Time: 1215 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 7.0
Drilling Method(s): HAS	Apparent Borehole DTW (in feet from soil moisture content): 6.15		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					L1	L1	L1	①	BRN Fisa, w/silt	SP	D	
					L1	L1	L1	③	BRN Fisa	SP	D	
					L1	L1	L1	⑤	BRN Fisa	SP	D	
					L1	L1	L1	⑦	BRN Fisa	SP	S	
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page _____ of _____

Boring/Well Number: 58-131		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 2/9/15		Borehole Start Time: 1200 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 2/9/15		End Time: 1210 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 7.0
Drilling Method(s): HAS	Apparent Borehole DTW (in feet from soil moisture content): 7.0		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					<1	-	<1	①	BRN Fisa, w/silt	SP		
					<1	-	<1	③	Gray Fisa,	SP		
					<1	-	<1	⑤	Gray Fisa,	SP		
					<1	-	<1	⑦	BRN Fisa, w/silt	SP		
								2				
								4				
								6				
								8				
								9				
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: 58-132		Permit Number:		FDEP Facility Identification Number:	
Site Name: Pond 2050		Borehole Start Date: 12/9/15		Borehole Start Time: 1145 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 12/9/15		End Time: 1157 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: GEC		Geologist's Name: Rich McCormick		Environmental Technician's Name: Jerry W. Governale	
Drilling Company: GEC		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3"		Borehole Depth (feet): 9.0
Drilling Method(s): HAS	Apparent Borehole DTW (in feet from soil moisture content): 8.5		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input checked="" type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	PID	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
					L1	-	L1	①	BRN Fiso, wysilt	SPSM	D	
					L1	-	L1	③	BRN Fiso, wysilt	SPSM	D	
					L1	-	L1	⑤	BRN Fiso, wysilt	SPSM	D	
					L1	-	L1	⑦	BRN Fiso, wysilt	SPSM	M	
					L1	-	L1	⑨	BRN Fiso, wysilt	SPSM	S	
								10				
								11				
								12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

APPENDIX A-2

Equipment Calibration Logs

DEP-SOP-001/01
 FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) TVA-1000 INSTRUMENT # 0726424034

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER OVA

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 95 PPM LTL262-RR-CM

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/10/14	0800	A	95PPM	96.13		NO	Init	JWG
12/10/14	1700	A	95PPM	95.74		NO	Cont	JWG
12/11/14	0803	A	95PPM	94.7		NO	Cont	JWG
12/11/14	12:00	A	95PPM	95.93		NO	Cont	JWG
12/12/14	1245	A	95PPM	96.13		NO	Cont	JWG
12/12/14	1608	A	95PPM	95.63		NO	Cont	JWG
12/15/14	1430	A	95PPM	95.71		NO	Cont	JWG
12/15/14	1604	A	95PPM	96.01		NO	Cont	JWG
12/16/14	1606	A	95ppm	94.1		NO	Cont	JWG
12/16/14	1700	A	95ppm	96.0		NO	Cont	JWG
12/17/14	1500	A	95ppm	97.0		NO	Cont	JWG
12/17/14	1558	A	95ppm	96.2		n	Cont	JWG
12/18/14	1300	A	95ppm	96.4		NO	Cont	JWG
12/18/14	1417	A	95ppm	97.0		NO	Cont	JWG
12/22/14	1402	A	95ppm	95.02		NO	Cont	JWG
12/22/14	1408	A	95ppm	95.68		NO	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#)

TVA-1000

INSTRUMENT #

0726424034

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER OVA

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 95 PPM LTL262-RR-CM

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/23/14	1608	A	95PPM	95.03		No	Cont	JWG
12/23/14	1430	A	95PPM	96.30		No	Cont	JWG
12/29/14	1150	A	95PPM	97.13		No	Cont	JWG
12/29/14	1402	A	95PPM	94.91		No	Cont	JWG
12/30/14	1005	A	95PPM	96.40		No	Cont	JWG
12/30/14	11:00	A	95ppm	94.00		No	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) Oakton T-100 **INSTRUMENT #** 452216

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 0.02

Standard B 20

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/12/14	0755	A	0.02	0.00		NO	Init	JWG
12/17/14	0755	B	20.0	19.90		YES	Init	JWG
12/12/14	1640	A	0.02	0.01		NO	Cont	JWG
12/12/14	1640	B	20.0	19.92		NO	Cont	JWG
12/15/14	1030	A	0.02	0.01		NO	Cont	JWG
12/15/14	1030	B	20.0	19.80		NO	Cont	JWG
12/15/14	1100	A	0.02	0.00		NO	Cont	JWG
12/15/14	1100	B	20.0	19.94		NO	Cont	JWG
12/16/14	1030	A	0.02	0.01		NO	Cont	JWG
12/16/14	1030	B	20.0	20.7		NO	Cont	JWG
12/16/14	1140	A	0.02	0.00		NO	Cont	JWG
12/16/14	1140	B	20.0	19.90		NO	Cont	JWG
12/18/14	1519	A	0.02	0.01		NO	Cont	JWG
12/18/14	1519	B	20.0	20.02		NO	Cont	JWG
12/18/16	1100	A	0.02	0.00		NO	Cont	JWG
12/18/16	1700	B	20.0	19.89		NO	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) Oakton T-100 **INSTRUMENT #** 452216

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 0.02

Standard B 20.0

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/19/14	0931	A	0.02	0.00		NO	Cont	JWG
12/19/14	0931	B	20.0	20.02		NO	Cont	JWG
12/19/14	1433	A	0.02	0.01		NO	Cont	JWG
12/19/14	1433	B	20.0	19.96		NO	Cont	JWG
12/23/14	1005	A	0.02	0.01		NO	Cont	JWG
12/23/14	1005	B	20.0	21.0		NO	Cont	JWG
12/23/14	1415	A	0.02	0.02		NO	Cont	JWG
12/23/14	1415	B	20.0	19.90		NO	Cont	JWG
12/29/14	1205	A	0.02	0.00		NO	Cont	JWG
12/29/14	1205	B	20.0	20.04		NO	Cont	JWG
12/30/14	1130	A	0.02	0.01		NO	Cont	JWG
12/30/14	1130	B	20.0	19.86		NO	Cont	JWG
12/30/14	1430	A	0.02	0.00		NO	Cont	JWG
12/30/14	1430	B	20.0	20.22		NO	Cont	JWG
1/2/15	0730	A	0.02	0.01		NO	Cont	JWG
1/2/15	0730	B	20.0	19.90		NO	Cont	JWG
1/2/15	1100	A	0.02	0.02		NO	Cont	JWG
1/2/15	1100	B	20.0	21.0		NO	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 550 **INSTRUMENT #** 0542353 AH

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A PH 4.01 1/20/16

Standard B PH 7.00 12/20/15

Standard C PH 10.01 11/20/15

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/14/14	0810	A	4.01	3.99		yes	Init	JWG
12/14/14	0810	B	7.00	7.10		yes	Init	JWG
12/14/14	0810	C	10.01	9.99		yes	Init	JWG
12/12/14	1603	A	4.01	4.00		yes	Cont	JWG
12/12/14	1603	B	7.00	7.06		yes	Cont	JWG
12/12/14	1603	C	10.01	9.97		yes	Cont	JWG
12/15/14	1030	A	4.01	4.03			Cont	JWG
12/15/14	1030	B	7.00	7.51			Cont	JWG
12/15/14	1030	C	10.01	10.51			Cont	JWG
12/15/14	1200	A	4.01	4.83			Cont	JWG
12/15/14	1200	B	7.00	7.33			Cont	JWG
12/15/14	1200	C	10.01	10.04			Cont	JWG
12/16/14	1115	A	4.01	4.83			Cont	JWG
12/16/14	1115	B	7.00	7.01			Cont	JWG
12/16/14	1115	C	10.01	10.03			Cont	JWG
12/18/14	1455	A	4.01	4.85			Cont	JWG
12/18/14	1455	B	7.00	7.28			Cont	JWG
12/18/14	1455	C	10.01	10.24			Cont	JWG

12/18/14 1703 A 4.01 4.09 Cont JWG
 12/18/14 1703 B 7.00 7.44 Cont JWG
 12/18/14 1703 C 10.01 9.79 Cont JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556

INSTRUMENT # 05H2853AH

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A PH 4.01 1/20/16

Standard B PH 7.00 12/20/15

Standard C PH 10.01 11/20/15

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/19/14	0938	A	4.01	4.00		NO	Cont	JWG
12/19/14	0938	B	7.00	7.01		NO	Cont	JWG
12/19/14	0938	C	10.01	10.00		NO	Cont	JWG
12/19/14	1443	A	4.01	4.02		NO	Cont	JWG
12/19/14	1443	B	7.00	7.00		NO	Cont	JWG
12/19/14	1443	C	10.01	10.00		NO	Cont	JWG
12/23/14	1015	A	4.01	4.48		NO	Cont	JWG
12/23/14	1015	B	7.00	7.00		NO	Cont	JWG
12/23/14	1015	C	10.01	10.09		NO	Cont	JWG
12/23/14	1430	A	4.01	4.01		NO	Cont	JWG
12/23/14	1430	B	7.00	7.12		NO	Cont	JWG
12/23/14	1430	C	10.01	9.97		NO	Cont	JWG
12/29/14	1205	A	4.01	4.01		NO	Cont	JWG
12/29/14	1205	B	7.00	7.00		NO	Cont	JWG
12/29/14	1205	C	10.01	10.01		NO	Cont	JWG
12/30/14	1105	A	4.01	4.13		NO	Cont	JWG
12/30/14	1105	B	7.00	7.16		NO	Cont	JWG
12/30/14	1105	C	10.01	10.18		NO	Cont	JWG
12/30/14	1435	A	4.01	4.00		NO	Cont	JWG
12/30/14	1435	B	7.00	7.03		NO	Cont	JWG
12/30/14	1435	C	10.01	10.98		NO	Cont	JWG
1/2/15	0720	A	4.01	4.01		NO	Cont	JWG
1/2/15	0720	B	7.00	7.02		NO	Cont	JWG
1/2/15	0720	C	10.01	10.01		NO	Cont	JWG
1/2/15	1105	A	4.01	4.01		NO	Cont	JWG
1/2/15	1105	B	7.00	7.00		NO	Cont	JWG
1/2/15	1105	C	10.01	10.01		NO	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 05H2353AH

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 84

Standard B 1500

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/19/14	0945	A	84	83.0		NO	Cont	JWG
12/19/14	0945	B	1500	1501		NO	Cont	JWG
12/19/14	1500	A	84	84		NO	Cont	JWG
12/19/14	1500	B	1500	1500		NO	Cont	JWG
12/23/14	1000	A	84	84		NO	Cont	JWG
12/23/14	1000	B	1500	1500		NO	Cont	JWG
12/23/14	1440	A	84	84		NO	Cont	JWG
12/23/14	1440	B	1500	1500		NO	Cont	JWG
12/29/14	1213	A	84	84		NO	Cont	JWG
12/29/14	1213	B	1500	1500		NO	Cont	JWG
12/30/14	1140	A	84	84		NO	Cont	JWG
12/30/14	1140	B	1500	1503		NO	Cont	JWG
12/30/14	1440	A	84	84		NO	Cont	JWG
12/30/14	1440	B	1500	1500		NO	Cont	JWG
1/2/15	0715	A	84	84		NO	Cont	JWG
1/2/15	0715	B	1500	1500		NO	Cont	JWG
1/2/15	1135	A	84	84		NO	Cont	JWG
1/2/15	1135	B	1500	1500		NO	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 05H2353 AH

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 100.0 %

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/14/14	0805	A	100.0	100.5		yes	Init	HT
12/18/14	1620	A	100.0	100.1		✓	Cont	JWG
12/15/14	1010	A	100.0	99.9		no	Cont	JWG
12/15/14	1408	A	100.00	100.7		no	Cont	JWG
12/16/14	1205	A	100.00	100.5		no	Cont	JWG
12/16/14	1638	A	100.0	99.8		no	Cont	JWG
12/18/14	0915	A	100	100.0		no	Cont	JWG
12/18/14	1306	A	100	100.6		no	Cont	JWG
12/19/14	1330	A	100	100.1		no	Cont	JWG
12/19/14	1520	A	100	100.0		no	Cont	JWG
12/23/14	1118	A	100	99.1		no	Cont	JWG
12/23/14	1430	A	100	100.0		no	Cont	JWG
12/29/14	0915	A	100	100.0		no	Cont	JWG
12/29/14	1400	A	100	100.0		no	Cont	JWG
12/30/14	1130	A	100	100.0		no	Cont	JWG
12/30/14	1440	A	100	100.0		no	Cont	JWG

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556

INSTRUMENT # 0542353A #

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 84

Standard B 1500

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/12/14	0750	A	84	84		YES	INIT	JWG
12/12/14	07:50	B	1500	1502		YES	INT	JWG
12/12/14	1210	A	84	83.0		NO	Cont	JWG
12/12/14	1210	B	1500	1501		NO	Cont	JWG
	1210							
12/15/14	1430	A	84	84		NO	Cont	JWG
12/15/14	1420	B	1500	1503		NO	Cont	JWG
12/15/14	1609	A	84	83.0		NO	Cont	JWG
12/15/14	1609	B	1500	1502		NO	Cont	JWG
12/16/14	1600	A	84	84		NO	Cont	JWG
12/16/14	1600	B	1500	1501		NO	Cont	JWG
12/16/14	1705	A	84	83.0		NO	Cont	JWG
12/16/14	1705	B	1500	1500		NO	Cont	JWG
12/18/14	1575	A	84	83.0		NO	Cont	JWG
12/18/14	1575	B	1500	1501		NO	Cont	JWG
12/18/14	1655	A	84	84		NO	Cont	JWG
12/18/14	1655	B	1500	1500		NO	Cont	JWG

Field Instrument Calibration Record

FD 9000-8

INSTRUMENT (Make/Model#) YSI

INSTRUMENT # 05H2353 A11

PARAMETER(S): [check only one]

TEMPERATURE

CONDUCTIVITY SALINITY

pH

ORP

TURBIDITY

RESIDUAL CI DO

OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A 100.0%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED Y/N	Type (Init, Cont)	SAMPLER INITIALS
2/9/15	12:33	A	100	100		No	Cont.	WX

REMARKS:

Field Instrument Calibration Record

FD 9000-8

INSTRUMENT (Make/Model#) YSI 556
 INSTRUMENT # 05H2353 A11

PARAMETER(S): [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL Cl DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A 84
 Standard B 1500
 Standard C _____

DATE (yy/mm/dd)	TIME (hr:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED Y/N	Type (Init, Cont)	SAMPLER INITIALS
2/9/15	12:30	A	84	84		No	Cont	JDH
		B	1500	1500		No	Cont	JDH

REMARKS:

Field Instrument Calibration Record
 FD 9000-8

INSTRUMENT (Make/Model#) YSI 556

INSTRUMENT # 05H 2353 AH

PARAMETER(S): [check only one]

- | | | | | |
|--------------------------------------|---------------------------------------|-----------------------------------|--|------------------------------|
| <input type="checkbox"/> TEMPERATURE | <input type="checkbox"/> CONDUCTIVITY | <input type="checkbox"/> SALINITY | <input checked="" type="checkbox"/> pH | <input type="checkbox"/> ORP |
| <input type="checkbox"/> TURBIDITY | <input type="checkbox"/> RESIDUAL CI | <input type="checkbox"/> DO | <input type="checkbox"/> OTHER _____ | |

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A 4.01 11/22/15
 Standard B 7.00 12/22/15
 Standard C 10.01 11/22/15

DATE (yy/mm/dd)	TIME (hr:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED Y/N	Type (Init, Cont)	SAMPLER INITIALS
2/9/15	12:35	A	4.01	4.00		yes	INIT	DA
		B	7.00	7.10		yes	INIT	DA
		C	10.01	9.91		yes	INIT	DA

REMARKS:

Field Instrument Calibration Record
 FD 9000-8

INSTRUMENT (Make/Model#) Oakton T100

INSTRUMENT # 452216

PARAMETER(S): [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A 0.02
 Standard B 20
 Standard C _____

DATE (yy/mm/dd)	TIME (hr:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED Y/N	Type (Init, Cont)	SAMPLER INITIALS
2/9/15	12:40	A	0.02	0.00		N	INIT	WA
		B	20	19.89		Y	INIT	WA

REMARKS:

Field Instrument Calibration Record
 FD 9000-8

INSTRUMENT (Make/Model#) TVA-1000

INSTRUMENT # 0726424034

PARAMETER(S): [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER DVA

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A 95 ppm LTL262-RR-CM
 Standard B _____
 Standard C _____

DATE (yy/mm/dd)	TIME (hr:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED Y/N	Type (Init, Cont)	SAMPLER INITIALS
2/19/15	09:45	A	95	95.2		No	Cont.	RM
2/19/15	12:45	A	95	95.6		No	Cont.	RM

REMARKS:

APPENDIX A-3

Groundwater Sampling Logs and Well Construction Detail

Form FD 9000-24
GROUNDWATER SAMPLING LOG

Riser 3.2

SITE NAME: <u>Pond 205 B</u>	SITE LOCATION: <u>SR-400</u>
WELL NO: <u>TW-5</u>	DATE: <u>12/19/14</u>

PURGING DATA

WELL DIAMETER (inches): <u>1 1/4</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>1.8</u> feet to <u>6.8</u> feet	STATIC DEPTH TO WATER (feet): <u>3.8</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>6.8</u> feet - <u>3.8</u> feet) X <u>0.04</u> gallons/foot = <u>1.12</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.8</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.8</u>	PURGING INITIATED AT: <u>1030</u>	PURGING ENDED AT: <u>1055</u>	TOTAL VOLUME PURGED (gallons): <u>1.5</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	.25	.25	.05	4.0	8.16	21.1	319	74.4	25.3	Cloudy	None
1035	.25	.50	.05	4.0	7.82	21.4	311	11.8	21.	Cloudy	None
1040	.25	.75	.05	4.0	7.35	20.98	312	13.1	30.9	Cloudy	None
1045	.25	1.00	.05	4.0	7.18	20.90	310	11.7	5.74	Clear	None
1050	.25	1.25	.05	4.0	7.14	20.99	311	11.3	2.47	Clear	None
1055	.25	1.50	.05	4.0	7.13	21.06	310	11.1	2.01	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Jerry W. Craven et al</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1055</u>	SAMPLING ENDED AT: <u>1115</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>0.8</u>	TUBING MATERIAL CODE: <u>PE/S</u>	FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	TUBING Y <input type="checkbox"/> N (replaced) <input checked="" type="checkbox"/>	DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
TW-5	2	AG	1L	H2SO4	Lab	7.2	Flo Pro	APP	0.05 GPM
TW-5	3	CG	40ML	HCL	Lab	7.2	826013 TIC 826013	APP	0.05 GPM
TW-5	1	AG	1L	none	none	7.13	82700 TIC 82700 8200 PARSIM 8082A	APP	0.05 GPM
TW-5	1	AG	250ML	none	none	7.13	82700 PARSIM 8082-A	APP	0.05 GPM
TW-5	1	AG	250ML	none	none	7.13	80813	APP	0.05 GPM
TW-5	1	PE	250ML	HNO3	Lab	7.2	20 BA AS SC PB AG CT	APP	0.05 GPM

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

Riser 1.0'

SITE NAME: <i>Pond 205 A</i>	SITE LOCATION: <i>SR-400</i>
WELL NO: <i>TMW-6</i>	DATE: <i>12/19/14</i>

PURGING DATA

WELL DIAMETER (inches): <i>1</i>	TUBING DIAMETER (inches): <i>3/8</i>	WELL SCREEN INTERVAL DEPTH: <i>9</i> feet to <i>14</i> feet	STATIC DEPTH TO WATER (feet): <i>10.5</i>	PURGE PUMP TYPE OR BAILER: <i>PP</i>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<i>14.0</i> feet - <i>10.5</i> feet) X <i>0.04</i> gallons/foot = <i>.14</i> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>13.0</i>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>13.0</i>		PURGING INITIATED AT: <i>1220</i>		PURGING ENDED AT: <i>1300</i>		TOTAL VOLUME PURGED (gallons): <i>4.25</i>			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>1235</i>	<i>.25</i>	<i>.25</i>	<i>.05</i>	<i>12.3</i>	<i>7.71</i>	<i>23.57</i>	<i>497</i>	<i>20.7</i>	<i>101</i>	<i>Cloudy</i>	<i>none</i>
<i>1240</i>	<i>.25</i>	<i>.50</i>	<i>.05</i>	<i>12.3</i>	<i>7.75</i>	<i>23.63</i>	<i>488</i>	<i>19.9</i>	<i>50.1</i>	<i>Cloudy</i>	<i>none</i>
<i>1245</i>	<i>.25</i>	<i>.75</i>	<i>.05</i>	<i>12.3</i>	<i>7.84</i>	<i>23.38</i>	<i>495</i>	<i>19.2</i>	<i>9.54</i>	<i>Clear</i>	<i>none</i>
<i>1250</i>	<i>.25</i>	<i>1.00</i>	<i>.05</i>	<i>12.3</i>	<i>7.92</i>	<i>23.86</i>	<i>492</i>	<i>18.6</i>	<i>5.64</i>	<i>Clear</i>	<i>none</i>
<i>1255</i>	<i>.25</i>	<i>1.25</i>	<i>.05</i>	<i>12.5</i>	<i>7.97</i>	<i>23.96</i>	<i>483</i>	<i>18.3</i>	<i>3.90</i>	<i>Clear</i>	<i>none</i>
<i>1300</i>	<i>.25</i>	<i>1.50</i>	<i>.05</i>	<i>12.5</i>	<i>7.98</i>	<i>23.92</i>	<i>473</i>	<i>18.3</i>	<i>2.89</i>	<i>Clear</i>	<i>none</i>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Jerry W. Governale</i>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <i>1300</i>	SAMPLING ENDED AT: <i>1305</i>
PUMP OR TUBING DEPTH IN WELL (feet): <i>14.0</i>	TUBING MATERIAL CODE: <i>PE/S</i>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<i>TMW6</i>	<i>1</i>	<i>AG</i>	<i>250ml</i>	<i>none</i>	<i>none</i>	<i>7.98</i>	<i>8151A</i>	<i>APP</i>	<i>.05</i>
<i>TMW6</i>	<i>1</i>	<i>AG</i>	<i>250ml</i>	<i>none</i>	<i>none</i>	<i>7.98</i>	<i>8081B</i>	<i>APP</i>	<i>.05</i>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

12.41

Form FD 9000-24 GROUNDWATER SAMPLING LOG

Riser 4.1

SITE NAME: <u>Pond 2051</u>	SITE LOCATION: <u>SB-129</u>
WELL NO: <u>TWU-11</u>	SAMPLE ID: <u>TWU-11</u> DATE: <u>2/10/14</u>

PURGING DATA

WELL DIAMETER (inches): <u>1</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>0.9</u> feet to <u>5.9</u> feet	STATIC DEPTH TO WATER (feet): <u>3.895</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
----------------------------------	--------------------------------------	--	--	--------------------------------------

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)
 = (5.9 feet - 3.8 feet) X 0.04 gallons/foot = 1084 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)
 = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.9</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): _____	PURGING INITIATED AT: <u>12:41</u>	PURGING ENDED AT: <u>1500</u>	TOTAL VOLUME PURGED (gallons): <u>28</u>
---	--	------------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1500	.25	.25	.05	3.5	5.22	19.3	15	3.31	45.3	Lt Brn	none
1503	.25	.50	.05	3.5	5.00	19.2	16	2.2	29.4	Lt Brn	none
1506	.25	.75	.05	3.5	5.12	19.2	14	1.9	19.31	Lt Brn	none
1509	.25	1.00	.05	3.5	5.06	19.03	16	1.8	16.48	Lt Brn	none
1512	.25	1.25	.05	3.5	5.19	19.03	16	1.7	14.97	Lt Brn	none
1515	.25	1.50	.05	3.5	5.20	19.02	16	1.7	13.50	Lt Brn	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Terry W. Governale</u>	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: <u>1515</u>	SAMPLING ENDED AT: <u>1520</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>4.5'</u>	TUBING MATERIAL CODE: <u>PE/S</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
TWU-11	1	AG	1L	none	none	5.20	8141	APP	.059 gpm
TWU-11	1	AG	1L	none	none	5.20	8151	APP	.059 gpm
TWU-11	1	PE	250mL	none	none	5.20	AS	APP	.059 gpm

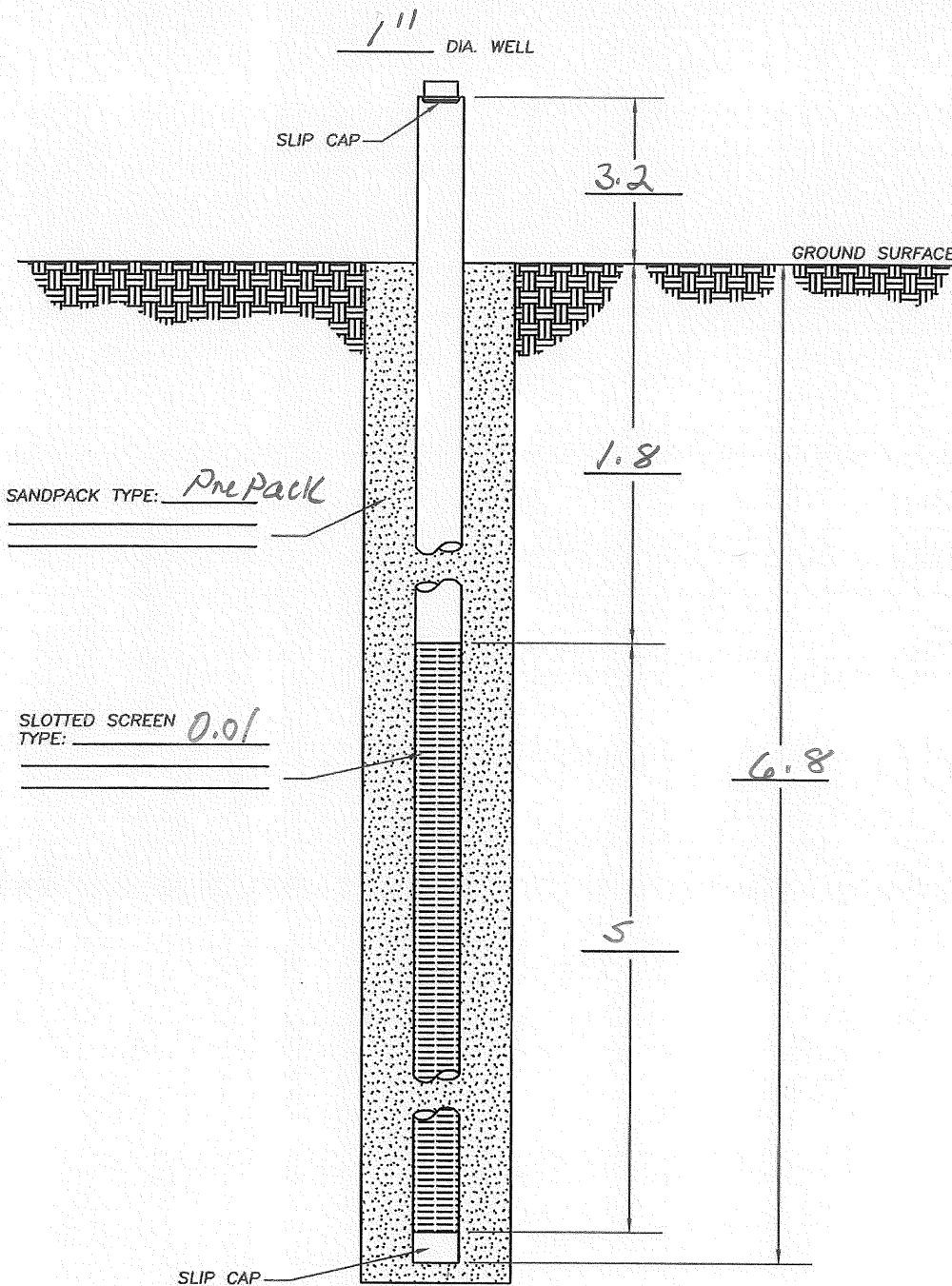
REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)



Geotechnical and Environmental Consultants, Inc.
 1230 E. HILLCREST ST.
 ORLANDO, FLORIDA 32803
 (407) 898-1818
 FAX (407) 898-1897
 COA NO. 00005882



PROJECT NO.: 3692 E

DATE: 12/18/14

SENIOR PROFESSIONAL:
 P.E. NO. GLK

PROJECT PROFESSIONAL:
 P.E. NO. RPM

DRAWN BY: JMG

REVISION:

TEMPORARY MONITORING
 WELL NO. Thw-5
Pond 205A

INSTALLATION REPORT

INSTALLATION DATE 12/18/14 INSTALLED BY JWG

DEPTH TO GROUNDWATER 4.0 G.S.

INSTALLATION METHOD AB Truic

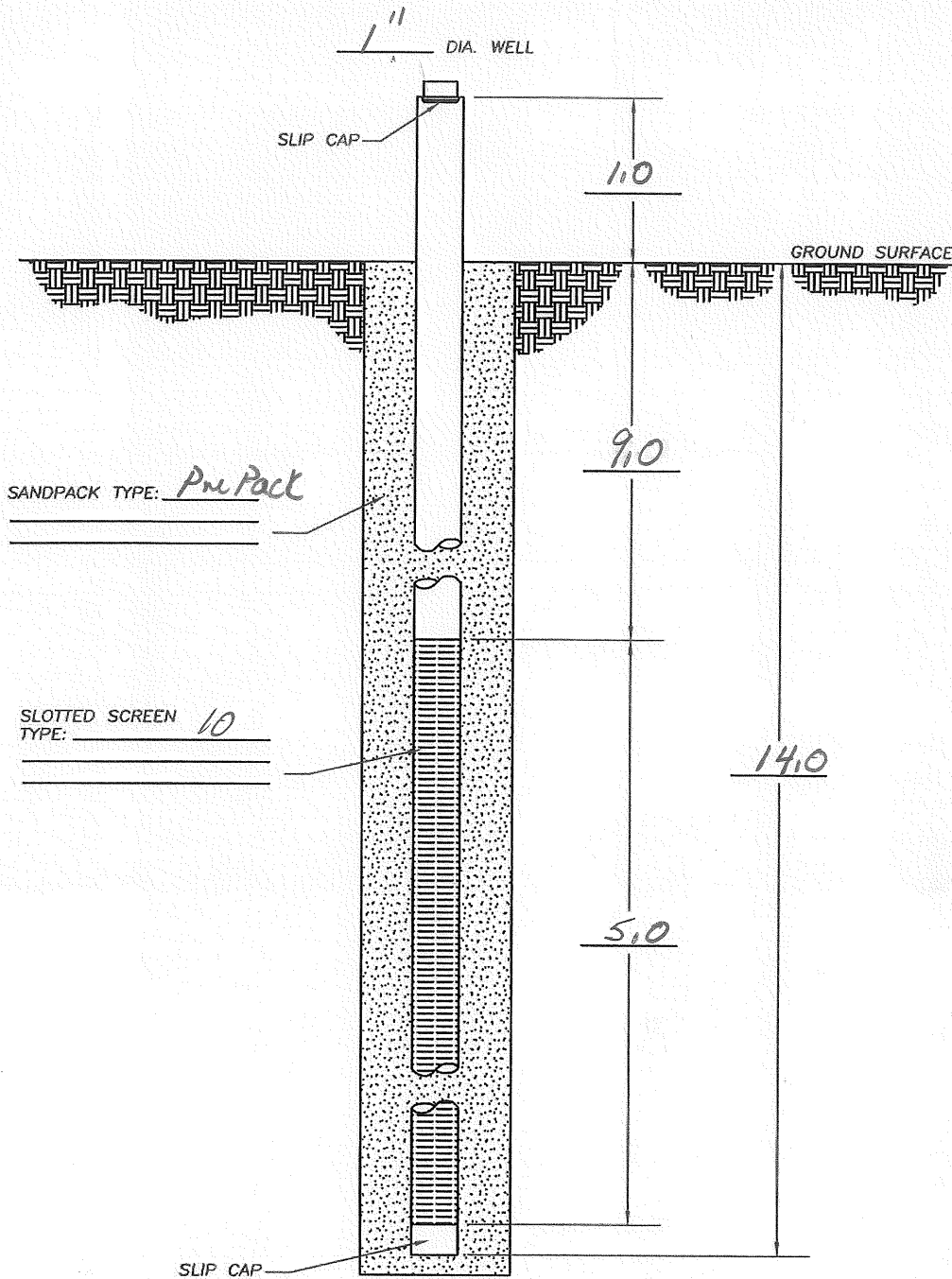
**WELL CONSTRUCTION
 DETAIL**

FIGURE

J:\DATA\FORMS\WELL DETAIL 2.dwg_6/6/2008 7:50:52 AM 1:1



Geotechnical and Environmental Consultants, Inc.
 1230 E. HILLCREST ST.
 ORLANDO, FLORIDA 32803
 (407) 898-1818
 FAX (407) 898-1897
 COA NO. 00005882



PROJECT NO.: 3692E

DATE:

SENIOR PROFESSIONAL:
P.E. NO.

PROJECT PROFESSIONAL:
P.E. NO.

DRAWN BY:

REVISION:

TEMPORARY MONITORING
 WELL NO. Thw-6
SB-11
Pond 205B

INSTALLATION REPORT

INSTALLATION DATE 12/17/14 INSTALLED BY J. Governale

DEPTH TO GROUNDWATER 9.0 G.S.

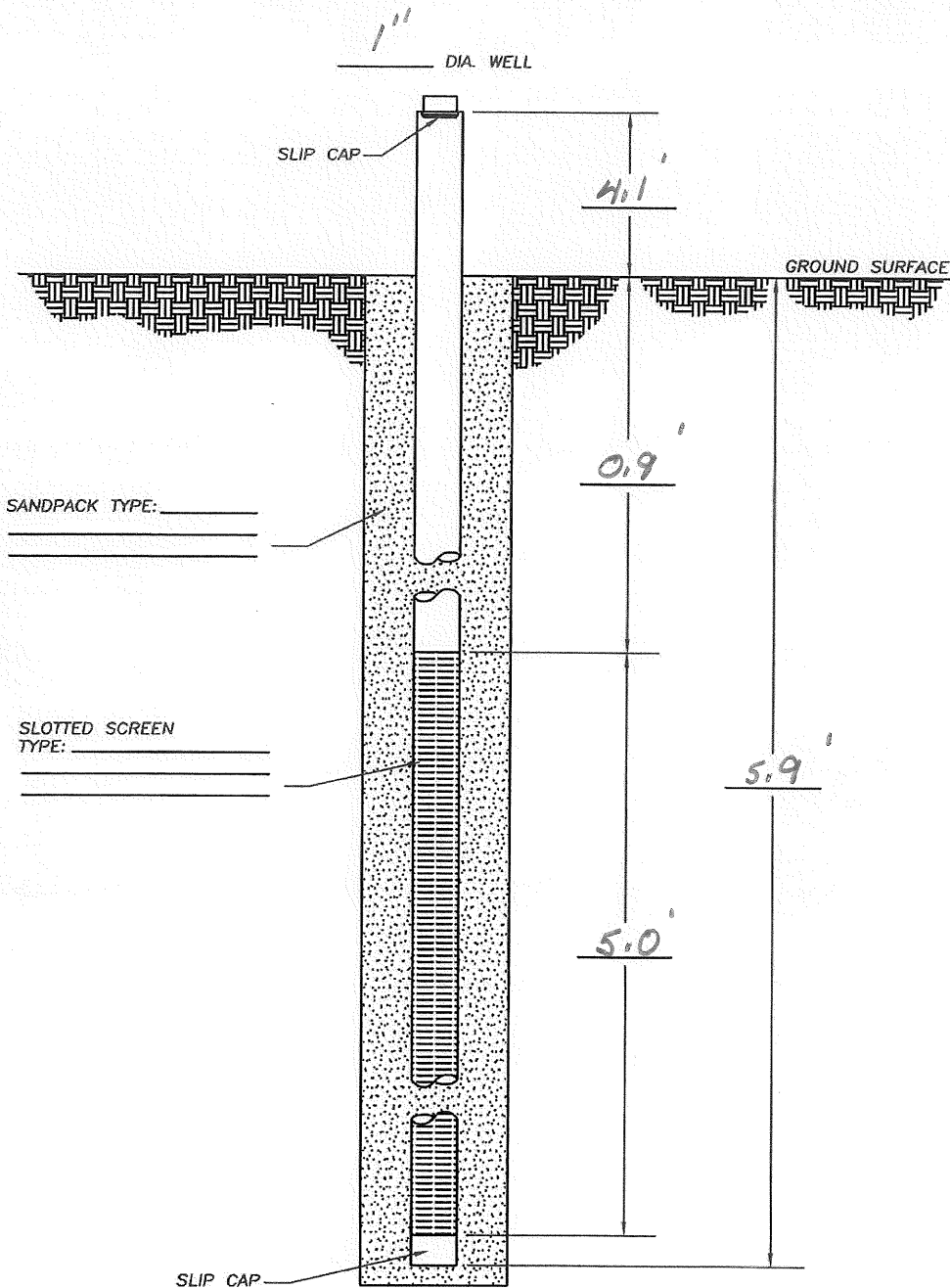
INSTALLATION METHOD AB TRUCK

**WELL CONSTRUCTION
 DETAIL**

FIGURE

J:\DATA\FORMS\WELL DETAIL 2.dwg, 6/6/2008 7:50:52 AM, 1:1

J:\DATA\FORMS\WELL DETAIL 2.dwg_6/6/2008 7:50:52 AM 1:1



INSTALLATION REPORT

INSTALLATION DATE 2/10/15 INSTALLED BY JWG
 DEPTH TO GROUNDWATER 3.8'
 INSTALLATION METHOD HA



Geotechnical and Environmental Consultants, Inc.
 1230 E. HILLCREST ST.
 ORLANDO, FLORIDA 32803
 (407) 898-1818
 FAX (407) 898-1897
 COA NO. 00005882

PROJECT NO.: 3492E

DATE: 2/10/15

SENIOR PROFESSIONAL:
P.E. NO.

PROJECT PROFESSIONAL:
P.E. NO.

DRAWN BY:

REVISION:

TEMPORARY MONITORING
WELL NO. 11

**WELL CONSTRUCTION
DETAIL**

FIGURE

APPENDIX B

Laboratory Analytical Reports



ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945

Wednesday, January 14, 2015

Geotechnical and Environmental (GE002)

Attn: Richard McCormick

919 Lake Baldwin Lane

Orlando, FL 32814

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: I-4 Level II

ENCO Workorder(s): A407553

Dear Richard McCormick,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, December 19, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

David Camacho

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE**Client ID: SB-9 Lab ID: A407553-01 Sampled: 12/19/14 09:32 Received: 12/19/14 15:35**

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/22/14 09:13		12/26/14 10:54
EPA 7471B	01/16/15		12/26/14 14:15		12/29/14 08:08
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 15:32
EPA 8082A	12/19/15	12/19/15	12/23/14 11:31		12/26/14 16:34
EPA 8260B	01/02/15		12/24/14 00:00		12/24/14 14:58
EPA 8270D	01/02/15	01/31/15	12/22/14 08:35		12/29/14 19:03
EPA 8270D	01/02/15	01/31/15	12/22/14 14:30		12/26/14 22:36
FL-PRO	01/02/15		12/26/14 08:00		12/30/14 04:01

Client ID: TMW-5 Lab ID: A407553-02 Sampled: 12/19/14 11:15 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/16/15		12/22/14 09:15		12/23/14 12:40
EPA 7470A	01/16/15		12/24/14 10:33		12/26/14 09:58
EPA 8081B	12/26/14	01/31/15	12/22/14 13:48		12/29/14 14:12
EPA 8082A	12/19/15	12/19/15	12/22/14 13:48		12/26/14 13:32
EPA 8260B	01/02/15		12/31/14 00:00		01/01/15 02:02
EPA 8270D	12/26/14	01/31/15	12/22/14 10:14		12/29/14 16:14
EPA 8270D	12/26/14	01/31/15	12/22/14 16:57		12/27/14 21:05
FL-PRO	12/26/14	02/02/15	12/24/14 05:30		12/27/14 01:49

Client ID: TMW-6 Lab ID: A407553-03 Sampled: 12/19/14 13:05 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/30/14 09:00		12/31/14 12:03
EPA 8081B	12/26/14	01/31/15	12/22/14 13:48		12/29/14 14:24
EPA 8151A	12/26/14	01/31/15	12/22/14 21:00		12/30/14 00:35

Client ID: CS-18 Lab ID: A407553-04 Sampled: 12/19/14 13:48 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:29
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 15:44
EPA 8151A	01/02/15	02/02/15	12/24/14 11:01		12/30/14 16:26

Client ID: CS-15 Lab ID: A407553-05 Sampled: 12/19/14 14:20 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:32
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 15:55
EPA 8151A	01/02/15	02/02/15	12/24/14 11:01		12/30/14 16:52

Client ID: CS-16 Lab ID: A407553-06 Sampled: 12/19/14 14:20 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:35
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 16:06
EPA 8151A	01/02/15	02/02/15	12/24/14 11:01		12/30/14 17:18

Client ID: CS-14 Lab ID: A407553-07 Sampled: 12/19/14 14:10 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:42
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 16:18
EPA 8151A	01/02/15	02/02/15	12/24/14 11:01		12/30/14 17:44

Client ID: CS-17 Lab ID: A407553-08 Sampled: 12/19/14 13:52 Received: 12/19/14 15:35

<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:45
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 16:29
EPA 8151A	01/02/15	02/02/15	12/24/14 11:01		12/30/14 18:10



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	CS-13	Lab ID:	A407553-09	Sampled:	12/19/14 14:15	Received:	12/19/14 15:35
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:48		
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 16:40		
EPA 8151A	01/02/15	02/04/15	12/26/14 13:30		12/30/14 12:57		

Client ID:	CS-19	Lab ID:	A407553-10	Sampled:	12/19/14 13:10	Received:	12/19/14 15:35
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:51		
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 16:52		
EPA 8151A	01/02/15	02/04/15	12/26/14 13:30		12/30/14 18:36		

Client ID:	CS-20	Lab ID:	A407553-11	Sampled:	12/19/14 14:00	Received:	12/19/14 15:35
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 6010C	06/17/15		12/26/14 08:59		12/30/14 13:54		
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		12/29/14 17:03		
EPA 8151A	01/02/15	02/04/15	12/26/14 13:30		12/30/14 19:02		

Client ID:	CS-20	Lab ID:	A407553-11RE1	Sampled:	12/19/14 14:00	Received:	12/19/14 15:35
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)		
EPA 8081B	01/02/15	02/01/15	12/23/14 08:25		01/07/15 13:24		

SAMPLE DETECTION SUMMARY

Client ID: SB-9 **Lab ID: A407553-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.053	V	0.0020	0.0058	mg/kg dry	EPA 8260B	J-01, O-01
Barium - Total	28.3		0.0374	0.585	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0123	I	0.0105	0.0585	mg/kg dry	EPA 6010C	
Chromium - Total	5.81		0.0363	0.585	mg/kg dry	EPA 6010C	
Lead - Total	3.47		0.129	0.585	mg/kg dry	EPA 6010C	
Mercury - Total	0.0322		0.00456	0.0117	mg/kg dry	EPA 7471B	

Client ID: TMW-5 **Lab ID: A407553-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	7.23	I	0.630	10.0	ug/L	EPA 6010C	
Methylene chloride	2.2	I	2.0	5.0	ug/L	EPA 8260B	O-01

Client ID: CS-15 **Lab ID: A407553-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	0.603	I	0.433	0.608	mg/kg dry	EPA 6010C	

Client ID: CS-20 **Lab ID: A407553-11RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chlordane (tech)	0.72		0.090	0.35	mg/kg dry	EPA 8081B	
Chlordane-alpha	0.22		0.0048	0.018	mg/kg dry	EPA 8081B	GC-07
Chlordane-gamma	0.19		0.0048	0.018	mg/kg dry	EPA 8081B	

ANALYTICAL RESULTS

Description: SB-9

Lab Sample ID: A407553-01

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 09:32

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1-Dichloroethane [75-34-3]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1-Dichloroethene [75-35-4]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,1-Dichloropropene [563-58-6]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2,3-Trichlorobenzene [87-61-6]^	0.0011	U	mg/kg dry	1	0.0011	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.0003	U	mg/kg dry	1	0.0003	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.0010	U	mg/kg dry	1	0.0010	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2,4-Trimethylbenzene [95-63-6]^	0.0008	U	mg/kg dry	1	0.0008	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2-Dibromoethane [106-93-4]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2-Dichloroethane [107-06-2]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,2-Dichloropropane [78-87-5]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,3,5-Trimethylbenzene [108-67-8]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,3-Dichloropropane [142-28-9]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
2,2-Dichloropropane [594-20-7]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
2-Butanone [78-93-3]^	0.0021	U	mg/kg dry	1	0.0021	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	
2-Chloroethyl Vinyl Ether [110-75-8]^	0.0020	U	mg/kg dry	1	0.0020	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	
2-Chlorotoluene [95-49-8]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
2-Hexanone [591-78-6]^	0.0011	U	mg/kg dry	1	0.0011	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	
4-Chlorotoluene [106-43-4]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
4-Isopropyltoluene [99-87-6]^	0.0009	U	mg/kg dry	1	0.0009	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
4-Methyl-2-pentanone [108-10-1]^	0.0016	U	mg/kg dry	1	0.0016	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Acetone [67-64-1]^	0.053	V	mg/kg dry	1	0.0020	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	J-01, O-01
Benzene [71-43-2]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Bromobenzene [108-86-1]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Bromochloromethane [74-97-5]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Bromodichloromethane [75-27-4]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Bromoform [75-25-2]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Bromomethane [74-83-9]^	0.0011	U	mg/kg dry	1	0.0011	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Carbon disulfide [75-15-0]^	0.0025	U	mg/kg dry	1	0.0025	0.0058	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Carbon Tetrachloride [56-23-5]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Chlorobenzene [108-90-7]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Chloroethane [75-00-3]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Chloroform [67-66-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Chloromethane [74-87-3]^	0.0008	U	mg/kg dry	1	0.0008	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Dibromochloromethane [124-48-1]^	0.0003	U	mg/kg dry	1	0.0003	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Dibromomethane [74-95-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Dichlorodifluoromethane [75-71-8]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Ethylbenzene [100-41-4]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	

ANALYTICAL RESULTS

Description: SB-9

Lab Sample ID: A407553-01

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 09:32

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Hexachlorobutadiene [87-68-3]^	0.0011	U	mg/kg dry	1	0.0011	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Isopropylbenzene [98-82-8]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
m,p-Xylenes [108-38-3/106-42-3]^	0.0012	U	mg/kg dry	1	0.0012	0.0023	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Methylene Chloride [75-09-2]^	0.0008	U	mg/kg dry	1	0.0008	0.0023	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Methyl-tert-Butyl Ether [1634-04-4]^	0.0003	U	mg/kg dry	1	0.0003	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Naphthalene [91-20-3]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
n-Butyl Benzene [104-51-8]^	0.0011	U	mg/kg dry	1	0.0011	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
n-Propyl Benzene [103-65-1]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
o-Xylene [95-47-6]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
sec-Butylbenzene [135-98-8]^	0.0008	U	mg/kg dry	1	0.0008	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Styrene [100-42-5]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
tert-Butylbenzene [98-06-6]^	0.0007	U	mg/kg dry	1	0.0007	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Tetrachloroethene [127-18-4]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Toluene [108-88-3]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.0008	U	mg/kg dry	1	0.0008	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.0004	U	mg/kg dry	1	0.0004	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Trichloroethene [79-01-6]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Trichlorofluoromethane [75-69-4]^	0.0006	U	mg/kg dry	1	0.0006	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Vinyl chloride [75-01-4]^	0.0005	U	mg/kg dry	1	0.0005	0.0012	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Xylenes (Total) [1330-20-7]^	0.0012	U	mg/kg dry	1	0.0012	0.0023	4L24010	EPA 8260B	12/24/14 14:58	KKW	

Surrogates

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	71-126	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Dibromofluoromethane	47	1	50.0	94 %	72-133	4L24010	EPA 8260B	12/24/14 14:58	KKW	
Toluene-d8	48	1	50.0	95 %	80-123	4L24010	EPA 8260B	12/24/14 14:58	KKW	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
1,2-Dichlorobenzene [95-50-1]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
1,3-Dichlorobenzene [541-73-1]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
1,4-Dichlorobenzene [106-46-7]^	0.12	U	mg/kg dry	1	0.12	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
1-Methylnaphthalene [90-12-0]^	0.11	U	mg/kg dry	1	0.11	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,4,5-Trichlorophenol [95-95-4]^	0.078	U	mg/kg dry	1	0.078	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,4,6-Trichlorophenol [88-06-2]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,4-Dichlorophenol [120-83-2]^	0.29	U	mg/kg dry	1	0.29	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,4-Dimethylphenol [105-67-9]^	0.27	U	mg/kg dry	1	0.27	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,4-Dinitrophenol [51-28-5]^	0.10	U	mg/kg dry	1	0.10	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
2,4-Dinitrotoluene [121-14-2]^	0.19	U	mg/kg dry	1	0.19	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2,6-Dinitrotoluene [606-20-2]^	0.21	U	mg/kg dry	1	0.21	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Chloronaphthalene [91-58-7]^	0.11	U	mg/kg dry	1	0.11	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Chlorophenol [95-57-8]^	0.27	U	mg/kg dry	1	0.27	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1]^	0.33	U	mg/kg dry	1	0.33	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Methylnaphthalene [91-57-6]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Methylphenol [95-48-7]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02
2-Nitroaniline [88-74-4]^	0.099	U	mg/kg dry	1	0.099	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02, QV-01
2-Nitrophenol [88-75-5]^	0.30	U	mg/kg dry	1	0.30	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: SB-9

Lab Sample ID: A407553-01

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 09:32

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
3 & 4-Methylphenol [108-39-4/106-44-5]^	0.29	U	mg/kg dry	1	0.29	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
3,3'-Dichlorobenzidine [91-94-1]^	0.25	U	mg/kg dry	1	0.25	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
3-Nitroaniline [99-09-2]^	0.094	U	mg/kg dry	1	0.094	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
4-Bromophenyl-phenylether [101-55-3]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
4-Chloro-3-methylphenol [59-50-7]^	0.33	U	mg/kg dry	1	0.33	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02
4-Chloroaniline [106-47-8]^	0.076	U	mg/kg dry	1	0.076	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
4-Chlorophenyl-phenylether [7005-72-3]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
4-Nitroaniline [100-01-6]^	0.30	U	mg/kg dry	1	0.30	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
4-Nitrophenol [100-02-7]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02, QV-01
Acenaphthene [83-32-9]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Acenaphthylene [208-96-8]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Anthracene [120-12-7]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Benzidine [92-87-5]^	0.10	U	mg/kg dry	1	0.10	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-02, QV-01
Benzo(a)anthracene [56-55-3]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Benzo(a)pyrene [50-32-8]^	0.091	U	mg/kg dry	1	0.091	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.19	U	mg/kg dry	1	0.19	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
Benzo(k)fluoranthene [207-08-9]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Benzoic acid [65-85-0]^	0.56	U	mg/kg dry	1	0.56	2.0	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
Benzyl alcohol [100-51-6]^	0.19	U	mg/kg dry	1	0.19	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Bis(2-chloroethoxy)methane [111-91-1]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02
Bis(2-chloroethyl)ether [111-44-4]^	0.16	U	mg/kg dry	1	0.16	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Bis(2-chloroisopropyl)ether [108-60-1]^	0.12	U	mg/kg dry	1	0.12	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02, QV-01
Bis(2-ethylhexyl)phthalate [117-81-7]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Butylbenzylphthalate [85-68-7]^	0.16	U	mg/kg dry	1	0.16	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QV-01
Chrysene [218-01-9]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.16	U	mg/kg dry	1	0.16	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Dibenzofuran [132-64-9]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Diethylphthalate [84-66-2]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Dimethylphthalate [131-11-3]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Di-n-butylphthalate [84-74-2]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Di-n-octylphthalate [117-84-0]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Fluoranthene [206-44-0]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Fluorene [86-73-7]^	0.16	U	mg/kg dry	1	0.16	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Hexachlorobenzene [118-74-1]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Hexachlorobutadiene [87-68-3]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Hexachlorocyclopentadiene [77-47-4]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
Hexachloroethane [67-72-1]^	0.12	U	mg/kg dry	1	0.12	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.16	U	mg/kg dry	1	0.16	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
Isophorone [78-59-1]^	0.20	U	mg/kg dry	1	0.20	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02, QV-01
Naphthalene [91-20-3]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Nitrobenzene [98-95-3]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QV-01, QL-02
N-Nitrosodimethylamine [62-75-9]^	0.14	U	mg/kg dry	1	0.14	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02, QV-01
N-Nitroso-di-n-propylamine [621-64-7]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	

ANALYTICAL RESULTS

Description: SB-9

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Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	0.27	U	mg/kg dry	1	0.27	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Pentachlorophenol [87-86-5]^	0.25	U	mg/kg dry	1	0.25	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	J-05
Phenanthrene [85-01-8]^	0.15	U	mg/kg dry	1	0.15	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Phenol [108-95-2]^	0.12	U	mg/kg dry	1	0.12	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Pyrene [129-00-0]^	0.13	U	mg/kg dry	1	0.13	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QL-02
Pyridine [110-86-1]^	0.18	U	mg/kg dry	1	0.18	0.39	4L22002	EPA 8270D	12/29/14 19:03	jfi	QV-01

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,6-Tribromophenol	1.4	1	1.96	69 %	23-137	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Fluorobiphenyl	1.8	1	1.96	92 %	29-119	4L22002	EPA 8270D	12/29/14 19:03	jfi	
2-Fluorophenol	2.0	1	1.96	103 %	20-124	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Nitrobenzene-d5	2.1	1	1.96	107 %	17-126	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Phenol-d5	2.2	1	1.96	113 %	15-131	4L22002	EPA 8270D	12/29/14 19:03	jfi	
Terphenyl-d14	2.0	1	1.96	100 %	60-120	4L22002	EPA 8270D	12/29/14 19:03	jfi	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]^	0.022	U	mg/kg dry	1	0.022	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
2-Methylnaphthalene [91-57-6]^	0.021	U	mg/kg dry	1	0.021	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Acenaphthene [83-32-9]^	0.018	U	mg/kg dry	1	0.018	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Acenaphthylene [208-96-8]^	0.021	U	mg/kg dry	1	0.021	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Anthracene [120-12-7]^	0.016	U	mg/kg dry	1	0.016	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Benzo(a)anthracene [56-55-3]^	0.016	U	mg/kg dry	1	0.016	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Benzo(a)pyrene [50-32-8]^	0.018	U	mg/kg dry	1	0.018	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.020	U	mg/kg dry	1	0.020	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.018	U	mg/kg dry	1	0.018	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.022	U	mg/kg dry	1	0.022	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Chrysene [218-01-9]^	0.014	U	mg/kg dry	1	0.014	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	0.019	U	mg/kg dry	1	0.019	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Fluoranthene [206-44-0]^	0.020	U	mg/kg dry	1	0.020	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Fluorene [86-73-7]^	0.020	U	mg/kg dry	1	0.020	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.018	U	mg/kg dry	1	0.018	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Naphthalene [91-20-3]^	0.021	U	mg/kg dry	1	0.021	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Phenanthrene [85-01-8]^	0.018	U	mg/kg dry	1	0.018	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	
Pyrene [129-00-0]^	0.019	U	mg/kg dry	1	0.019	0.041	4L22040	EPA 8270D	12/26/14 22:36	jfi	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
p-Terphenyl	2.1	1	2.34	88 %	50-150	4L22040	EPA 8270D	12/26/14 22:36	jfi	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
4,4'-DDE [72-55-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
4,4'-DDT [50-29-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Aldrin [309-00-2]^	0.0012	U	mg/kg dry	2	0.0012	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
alpha-BHC [319-84-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	

ANALYTICAL RESULTS

Description: SB-9

Lab Sample ID: A407553-01

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 09:32

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
beta-BHC [319-85-7]^	0.0023	U	mg/kg dry	2	0.0023	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Chlordane (tech) [12789-03-6]^	0.020	U	mg/kg dry	2	0.020	0.077	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Chlordane-alpha [5103-71-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Chlordane-gamma [5566-34-7]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
delta-BHC [319-86-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Dieldrin [60-57-1]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endosulfan I [959-98-8]^	0.00091	U	mg/kg dry	2	0.00091	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endosulfan II [33213-65-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endosulfan sulfate [1031-07-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endrin [72-20-8]^	0.0017	U	mg/kg dry	2	0.0017	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endrin aldehyde [7421-93-4]^	0.0019	U	mg/kg dry	2	0.0019	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Endrin ketone [53494-70-5]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
gamma-BHC [58-89-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Heptachlor [76-44-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Heptachlor epoxide [1024-57-3]^	0.0011	U	mg/kg dry	2	0.0011	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Isodrin [465-73-6]^	0.0015	U	mg/kg dry	2	0.0015	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Methoxychlor [72-43-5]^	0.0020	U	mg/kg dry	2	0.0020	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Mirex [2385-85-5]^	0.0026	U	mg/kg dry	2	0.0026	0.0040	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Toxaphene [8001-35-2]^	0.040	U	mg/kg dry	2	0.040	0.077	4L23006	EPA 8081B	12/29/14 15:32	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	0.012	2	0.0390	30 %	20-137	4L23006	EPA 8081B	12/29/14 15:32	JJB	
Decachlorobiphenyl	0.027	2	0.0390	69 %	13-183	4L23006	EPA 8081B	12/29/14 15:32	JJB	

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]^	0.016	U	mg/kg dry	1	0.016	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	
PCB-1221 [11104-28-2]^	0.016	U	mg/kg dry	1	0.016	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	
PCB-1232 [11141-16-5]^	0.016	U	mg/kg dry	1	0.016	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	
PCB-1248 [12672-29-6]^	0.0074	U	mg/kg dry	1	0.0074	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	
PCB-1254 [11097-69-1]^	0.019	U	mg/kg dry	1	0.019	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	
PCB-1260 [11096-82-5]^	0.013	U	mg/kg dry	1	0.013	0.020	4L23023	EPA 8082A	12/26/14 16:34	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	0.022	1	0.0390	57 %	20-137	4L23023	EPA 8082A	12/26/14 16:34	JJB	
Decachlorobiphenyl	0.052	1	0.0390	135 %	13-183	4L23023	EPA 8082A	12/26/14 16:34	JJB	

FL Petroleum Range Organics

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40)^	4.0	U	mg/kg dry	1	4.0	6.7	4L26002	FL-PRO	12/30/14 04:01	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
n-Nonatriacontane	4.0	1	3.90	104 %	41-129	4L26002	FL-PRO	12/30/14 04:01	JJB	
o-Terphenyl	1.9	1	1.95	100 %	45-135	4L26002	FL-PRO	12/30/14 04:01	JJB	



ANALYTICAL RESULTS

Description: SB-9

Lab Sample ID: A407553-01

Received: 12/19/14 15:35

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Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 85.50

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Mercury [7439-97-6]^	0.0322		mg/kg dry	1	0.00456	0.0117	4L22014	EPA 7471B	12/29/14 08:08	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.416	U	mg/kg dry	1	0.416	0.585	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Barium [7440-39-3]^	28.3		mg/kg dry	1	0.0374	0.585	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Cadmium [7440-43-9]^	0.0123	I	mg/kg dry	1	0.0105	0.0585	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Chromium [7440-47-3]^	5.81		mg/kg dry	1	0.0363	0.585	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Lead [7439-92-1]^	3.47		mg/kg dry	1	0.129	0.585	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Selenium [7782-49-2]^	0.421	U	mg/kg dry	1	0.421	2.34	4L22003	EPA 6010C	12/26/14 10:54	ACV	
Silver [7440-22-4]^	0.0842	U	mg/kg dry	1	0.0842	0.585	4L22003	EPA 6010C	12/26/14 10:54	ACV	

ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
2-Chloroethyl Vinyl Ether [110-75-8]^	1.9	U	ug/L	1	1.9	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	QM-07
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
2-Hexanone [591-78-6]^	1.4	U	ug/L	1	1.4	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
4-Methyl-2-pentanone [108-10-1]^	0.79	U	ug/L	1	0.79	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Acetone [67-64-1]^	5.0	U	ug/L	1	5.0	10	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Carbon disulfide [75-15-0]^	2.6	U	ug/L	1	2.6	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Dibromochloromethane [124-48-1]^	0.44	U	ug/L	1	0.44	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	

ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Methylene chloride [75-09-2]^	2.2	I	ug/L	1	2.0	5.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	O-01
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
n-Propyl Benzene [103-65-1]^	0.70	U	ug/L	1	0.70	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	4L31025	EPA 8260B	01/01/15 02:02	NMC	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	48	1	50.0	97 %	41-142	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Dibromofluoromethane	52	1	50.0	103 %	53-146	4L31025	EPA 8260B	01/01/15 02:02	NMC	
Toluene-d8	47	1	50.0	95 %	41-146	4L31025	EPA 8260B	01/01/15 02:02	NMC	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds	0.0		ug/L	1			4L31025	EPA 8260B	01/01/15 02:02	NMC	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
1,2-Dichlorobenzene [95-50-1]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
1,3-Dichlorobenzene [541-73-1]^	3.4	U	ug/L	1	3.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
1,4-Dichlorobenzene [106-46-7]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
1-Methylnaphthalene [90-12-0]^	3.1	U	ug/L	1	3.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,4,5-Trichlorophenol [95-95-4]^	3.9	U	ug/L	1	3.9	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,4,6-Trichlorophenol [88-06-2]^	6.4	U	ug/L	1	6.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,4-Dichlorophenol [120-83-2]^	6.5	U	ug/L	1	6.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,4-Dimethylphenol [105-67-9]^	6.4	U	ug/L	1	6.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,4-Dinitrophenol [51-28-5]^	7.7	U	ug/L	1	7.7	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
2,4-Dinitrotoluene [121-14-2]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2,6-Dinitrotoluene [606-20-2]^	2.9	U	ug/L	1	2.9	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Chloronaphthalene [91-58-7]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Chlorophenol [95-57-8]^	7.4	U	ug/L	1	7.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Methyl-4,6-dinitrophenol [534-52-1]^	6.0	U	ug/L	1	6.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Methylnaphthalene [91-57-6]^	3.8	U	ug/L	1	3.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	

ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]^	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Methylphenol [95-48-7]^	3.5	U	ug/L	1	3.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Nitroaniline [88-74-4]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02, QV-01
2-Nitrophenol [88-75-5]^	5.2	U	ug/L	1	5.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
3 & 4-Methylphenol [108-39-4/106-44-5]^	8.2	U	ug/L	1	8.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
3,3'-Dichlorobenzidine [91-94-1]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
3-Nitroaniline [99-09-2]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Bromophenyl-phenylether [101-55-3]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Chloro-3-methylphenol [59-50-7]^	7.3	U	ug/L	1	7.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Chloroaniline [106-47-8]^	4.3	U	ug/L	1	4.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Chlorophenyl-phenylether [7005-72-3]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Nitroaniline [100-01-6]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
4-Nitrophenol [100-02-7]^	7.9	U	ug/L	1	7.9	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QV-01
Acenaphthene [83-32-9]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Acenaphthylene [208-96-8]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Anthracene [120-12-7]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Benzidine [92-87-5]^	7.1	U	ug/L	1	7.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QV-01
Benzo(a)anthracene [56-55-3]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Benzo(a)pyrene [50-32-8]^	3.1	U	ug/L	1	3.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Benzo(b)fluoranthene [205-99-2]^	3.4	U	ug/L	1	3.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Benzo(g,h,i)perylene [191-24-2]^	3.7	U	ug/L	1	3.7	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Benzo(k)fluoranthene [207-08-9]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Benzoic acid [65-85-0]^	15	U	ug/L	1	15	50	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Benzyl alcohol [100-51-6]^	3.9	U	ug/L	1	3.9	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Bis(2-chloroethoxy)methane [111-91-1]^	3.3	U	ug/L	1	3.3	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02
Bis(2-chloroethyl)ether [111-44-4]^	3.8	U	ug/L	1	3.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Bis(2-chloroisopropyl)ether [108-60-1]^	3.5	U	ug/L	1	3.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02, QV-01
Bis(2-ethylhexyl)phthalate [117-81-7]^	3.5	U	ug/L	1	3.5	5.0	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Butylbenzylphthalate [85-68-7]^	5.1	U	ug/L	1	5.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QV-01
Chrysene [218-01-9]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Dibenzo(a,h)anthracene [53-70-3]^	3.8	U	ug/L	1	3.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Dibenzofuran [132-64-9]^	2.8	U	ug/L	1	2.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Diethylphthalate [84-66-2]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Dimethylphthalate [131-11-3]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Di-n-butylphthalate [84-74-2]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Di-n-octylphthalate [117-84-0]^	3.6	U	ug/L	1	3.6	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Fluoranthene [206-44-0]^	4.0	U	ug/L	1	4.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Fluorene [86-73-7]^	2.9	U	ug/L	1	2.9	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Hexachlorobenzene [118-74-1]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Hexachlorobutadiene [87-68-3]^	4.1	U	ug/L	1	4.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Hexachlorocyclopentadiene [77-47-4]^	3.8	U	ug/L	1	3.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Hexachloroethane [67-72-1]^	3.0	U	ug/L	1	3.0	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	4.1	U	ug/L	1	4.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Isophorone [78-59-1]^	4.5	U	ug/L	1	4.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QV-01
Naphthalene [91-20-3]^	3.6	U	ug/L	1	3.6	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Nitrobenzene [98-95-3]^	3.2	U	ug/L	1	3.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02, QV-01

ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
N-Nitrosodimethylamine [62-75-9]^	3.8	U	ug/L	1	3.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02, QV-01
N-Nitroso-di-n-propylamine [621-64-7]^	4.5	U	ug/L	1	4.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	5.4	U	ug/L	1	5.4	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Pentachlorophenol [87-86-5]^	8.2	U	ug/L	1	8.2	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	J-05
Phenanthrene [85-01-8]^	2.8	U	ug/L	1	2.8	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Phenol [108-95-2]^	5.6	U	ug/L	1	5.6	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Pyrene [129-00-0]^	4.1	U	ug/L	1	4.1	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QL-02
Pyridine [110-86-1]^	3.5	U	ug/L	1	3.5	10	4L22009	EPA 8270D	12/29/14 16:14	jfi	QV-01

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,6-Tribromophenol	39	1	50.0	79 %	47-128	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Fluorobiphenyl	44	1	50.0	88 %	44-102	4L22009	EPA 8270D	12/29/14 16:14	jfi	
2-Fluorophenol	29	1	50.0	58 %	25-79	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Nitrobenzene-d5	52	1	50.0	103 %	43-112	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Phenol-d5	21	1	50.0	41 %	14-54	4L22009	EPA 8270D	12/29/14 16:14	jfi	
Terphenyl-d14	55	1	50.0	110 %	65-122	4L22009	EPA 8270D	12/29/14 16:14	jfi	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds	0.0		ug/L	1			4L22009	EPA 8270D	12/29/14 16:14	jfi	

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]^	0.047	U	ug/L	1	0.047	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
2-Methylnaphthalene [91-57-6]^	0.044	U	ug/L	1	0.044	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Acenaphthene [83-32-9]^	0.037	U	ug/L	1	0.037	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Acenaphthylene [208-96-8]^	0.036	U	ug/L	1	0.036	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Anthracene [120-12-7]^	0.036	U	ug/L	1	0.036	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Benzo(a)anthracene [56-55-3]^	0.037	U	ug/L	1	0.037	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	QL-02
Benzo(a)pyrene [50-32-8]^	0.043	U	ug/L	1	0.043	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Benzo(b)fluoranthene [205-99-2]^	0.059	U	ug/L	1	0.059	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Benzo(g,h,i)perylene [191-24-2]^	0.040	U	ug/L	1	0.040	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Benzo(k)fluoranthene [207-08-9]^	0.046	U	ug/L	1	0.046	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Chrysene [218-01-9]^	0.051	U	ug/L	1	0.051	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	QL-02
Dibenzo(a,h)anthracene [53-70-3]^	0.026	U	ug/L	1	0.026	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Fluoranthene [206-44-0]^	0.051	U	ug/L	1	0.051	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Fluorene [86-73-7]^	0.038	U	ug/L	1	0.038	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.037	U	ug/L	1	0.037	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Naphthalene [91-20-3]^	0.035	U	ug/L	1	0.035	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Phenanthrene [85-01-8]^	0.039	U	ug/L	1	0.039	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	
Pyrene [129-00-0]^	0.048	U	ug/L	1	0.048	0.10	4L22063	EPA 8270D	12/27/14 21:05	jfi	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
p-Terphenyl	6.1	1	5.71	107 %	66-136	4L22063	EPA 8270D	12/27/14 21:05	jfi	

ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
beta-BHC [319-85-7]^	0.022	U	ug/L	1	0.022	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Chlordane (tech) [12789-03-6]^	0.32	U	ug/L	1	0.32	0.50	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Chlordane-gamma [5566-34-7]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endosulfan sulfate [1031-07-8]^	0.016	U	ug/L	1	0.016	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
gamma-BHC [58-89-9]^	0.020	U	ug/L	1	0.020	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Heptachlor [76-44-8]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Methoxychlor [72-43-5]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	4L22010	EPA 8081B	12/29/14 14:12	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	0.75	1	1.01	74 %	38-142	4L22010	EPA 8081B	12/29/14 14:12	JJB	
Decachlorobiphenyl	1.0	1	1.01	102 %	34-159	4L22010	EPA 8081B	12/29/14 14:12	JJB	

Polychlorinated Biphenyls by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]^	0.49	U	ug/L	1	0.49	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	
PCB-1221 [11104-28-2]^	0.46	U	ug/L	1	0.46	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	
PCB-1232 [11141-16-5]^	0.47	U	ug/L	1	0.47	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	
PCB-1248 [12672-29-6]^	0.49	U	ug/L	1	0.49	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	
PCB-1254 [11097-69-1]^	0.50	U	ug/L	1	0.50	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	
PCB-1260 [11096-82-5]^	0.48	U	ug/L	1	0.48	0.50	4L22029	EPA 8082A	12/26/14 13:32	JJB	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,5,6-TCMX	0.66	1	1.01	66 %	38-142	4L22029	EPA 8082A	12/26/14 13:32	JJB	
Decachlorobiphenyl	1.1	1	1.01	111 %	34-159	4L22029	EPA 8082A	12/26/14 13:32	JJB	



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ANALYTICAL RESULTS

Description: TMW-5
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-02
Sampled: 12/19/14 11:15
Sampled By:

Received: 12/19/14 15:35
Work Order: A407553

FL Petroleum Range Organics

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40)^	0.10	U	mg/L	1	0.10	0.17	4L24001	FL-PRO	12/27/14 01:49	mac	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
n-Nonatriacontane	0.10	1	0.101	101 %	36-144	4L24001	FL-PRO	12/27/14 01:49	mac	
o-Terphenyl	0.043	1	0.0505	86 %	39-156	4L24001	FL-PRO	12/27/14 01:49	mac	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.0230	U	ug/L	1	0.0230	0.200	4L18045	EPA 7470A	12/26/14 09:58	JAY	

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	7.12	U	ug/L	1	7.12	10.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Barium [7440-39-3]^	7.23	I	ug/L	1	0.630	10.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Cadmium [7440-43-9]^	0.170	U	ug/L	1	0.170	1.00	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Chromium [7440-47-3]^	1.30	U	ug/L	1	1.30	10.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Lead [7439-92-1]^	2.20	U	ug/L	1	2.20	10.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Selenium [7782-49-2]^	6.60	U	ug/L	1	6.60	40.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	
Silver [7440-22-4]^	1.20	U	ug/L	1	1.20	10.0	4L22004	EPA 6010C	12/23/14 12:40	ACV	

ANALYTICAL RESULTS

Description: TMW-6
Matrix: Ground Water
Project: I-4 Level II

Lab Sample ID: A407553-03
Sampled: 12/19/14 13:05
Sampled By: Jerry Governale

Received: 12/19/14 15:35
Work Order: A407553

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
beta-BHC [319-85-7]^	0.022	U	ug/L	1	0.022	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Chlordane (tech) [12789-03-6]^	0.32	U	ug/L	1	0.32	0.50	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Chlordane-gamma [5566-34-7]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endosulfan sulfate [1031-07-8]^	0.016	U	ug/L	1	0.016	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
gamma-BHC [58-89-9]^	0.020	U	ug/L	1	0.020	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Heptachlor [76-44-8]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Methoxychlor [72-43-5]^	0.018	U	ug/L	1	0.018	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	4L22010	EPA 8081B	12/29/14 14:24	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.59	1	0.990	60 %	38-142	4L22010	EPA 8081B	12/29/14 14:24	JJB		
Decachlorobiphenyl	0.85	1	0.990	86 %	34-159	4L22010	EPA 8081B	12/29/14 14:24	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.28	U	ug/L	1	0.28	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.44	U	ug/L	1	0.44	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
2,4-D [94-75-7]^	0.27	U	ug/L	1	0.27	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
2,4-DB [94-82-6]^	0.35	U	ug/L	1	0.35	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
3,5-DCBA [51-365-5]^	0.36	U	ug/L	1	0.36	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
4-Nitrophenol [100-02-7]^	0.32	U	ug/L	1	0.32	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	QV-01
Acifluorfen [50594-66-6]^	0.45	U	ug/L	1	0.45	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Bentazon [25057-89-0]^	0.22	U	ug/L	1	0.22	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	J-05
Chloramben [133-90-4]^	0.43	U	ug/L	1	0.43	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	J-05
Dacthal [1861-32-1]^	0.23	U	ug/L	1	0.23	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Dalapon [75-99-0]^	0.49	U	ug/L	1	0.49	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Dicamba [1918-00-9]^	0.19	U	ug/L	1	0.19	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Dichlorprop [120-36-5]^	0.28	U	ug/L	1	0.28	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Dinoseb [88-85-7]^	0.32	U	ug/L	1	0.32	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
MCPA [94-74-6]^	34	U	ug/L	1	34	50	4L22067	EPA 8151A	12/30/14 00:35	RC	
MCPP [93-65-2]^	46	U	ug/L	1	46	50	4L22067	EPA 8151A	12/30/14 00:35	RC	



ANALYTICAL RESULTS

Description: TMW-6

Lab Sample ID: A407553-03

Received: 12/19/14 15:35

Matrix: Ground Water

Sampled: 12/19/14 13:05

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Pentachlorophenol [87-86-5]^	0.19	U	ug/L	1	0.19	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	
Picloram [1918-02-1]^	0.23	U	ug/L	1	0.23	0.50	4L22067	EPA 8151A	12/30/14 00:35	RC	

Surrogates

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.97	1	2.00	48 %	68-139	4L22067	EPA 8151A	12/30/14 00:35	RC	QM-13, QS-03

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	7.12	U	ug/L	1	7.12	10.0	4L30003	EPA 6010C	12/31/14 12:03	ACV	

ANALYTICAL RESULTS

Description: CS-18

Lab Sample ID: A407553-04

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:48

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 97.14

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
beta-BHC [319-85-7]^	0.0021	U	mg/kg dry	2	0.0021	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Chlordane (tech) [12789-03-6]^	0.017	U	mg/kg dry	2	0.017	0.068	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Chlordane-alpha [5103-71-9]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Chlordane-gamma [5566-34-7]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
delta-BHC [319-86-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endosulfan I [959-98-8]^	0.00080	U	mg/kg dry	2	0.00080	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endosulfan II [33213-65-9]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endosulfan sulfate [1031-07-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endrin aldehyde [7421-93-4]^	0.0017	U	mg/kg dry	2	0.0017	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Endrin ketone [53494-70-5]^	0.00097	U	mg/kg dry	2	0.00097	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Heptachlor epoxide [1024-57-3]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Methoxychlor [72-43-5]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	4L23006	EPA 8081B	12/29/14 15:44	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.024	2	0.0342	69 %	20-137	4L23006	EPA 8081B	12/29/14 15:44	JJB		
Decachlorobiphenyl	0.036	2	0.0342	104 %	13-183	4L23006	EPA 8081B	12/29/14 15:44	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0048	U	mg/kg dry	1	0.0048	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
2,4-DB [94-82-6]^	0.0050	U	mg/kg dry	1	0.0050	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
4-Nitrophenol [100-02-7]^	0.0067	U	mg/kg dry	1	0.0067	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Acifluorfen [50594-66-6]^	0.0016	U	mg/kg dry	1	0.0016	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Bentazon [25057-89-0]^	0.0046	U	mg/kg dry	1	0.0046	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	J-05
Chloramben [133-90-4]^	0.0040	U	mg/kg dry	1	0.0040	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Dalapon [75-99-0]^	0.0051	U	mg/kg dry	1	0.0051	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Dichlorprop [120-36-5]^	0.0029	U	mg/kg dry	1	0.0029	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Dinoseb [88-85-7]^	0.0043	U	mg/kg dry	1	0.0043	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
MCPA [94-74-6]^	0.54	U	mg/kg dry	1	0.54	1.0	4L24014	EPA 8151A	12/30/14 16:26	RC	
MCPP [93-65-2]^	0.55	U	mg/kg dry	1	0.55	1.0	4L24014	EPA 8151A	12/30/14 16:26	RC	



ANALYTICAL RESULTS

Description: CS-18

Lab Sample ID: A407553-04

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:48

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 97.14

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	
Picloram [1918-02-1]^	0.0019	U	mg/kg dry	1	0.0019	0.010	4L24014	EPA 8151A	12/30/14 16:26	RC	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.027	1	0.0413	66 %	39-174	4L24014	EPA 8151A	12/30/14 16:26	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.539	U	mg/kg dry	1	0.539	0.757	4L26004	EPA 6010C	12/30/14 13:29	ACV	

ANALYTICAL RESULTS

Description: CS-15

Lab Sample ID: A407553-05

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:20

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 95.69

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
beta-BHC [319-85-7]^	0.0021	U	mg/kg dry	2	0.0021	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Chlordane (tech) [12789-03-6]^	0.018	U	mg/kg dry	2	0.018	0.069	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Chlordane-alpha [5103-71-9]^	0.00094	U	mg/kg dry	2	0.00094	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Chlordane-gamma [5566-34-7]^	0.00094	U	mg/kg dry	2	0.00094	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
delta-BHC [319-86-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Dieldrin [60-57-1]^	0.00094	U	mg/kg dry	2	0.00094	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endosulfan II [33213-65-9]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endosulfan sulfate [1031-07-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endrin aldehyde [7421-93-4]^	0.0017	U	mg/kg dry	2	0.0017	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Endrin ketone [53494-70-5]^	0.00098	U	mg/kg dry	2	0.00098	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
gamma-BHC [58-89-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Heptachlor epoxide [1024-57-3]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Methoxychlor [72-43-5]^	0.0018	U	mg/kg dry	2	0.0018	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0036	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Toxaphene [8001-35-2]^	0.036	U	mg/kg dry	2	0.036	0.069	4L23006	EPA 8081B	12/29/14 15:55	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.029	2	0.0351	83 %	20-137	4L23006	EPA 8081B	12/29/14 15:55	JJB		
Decachlorobiphenyl	0.037	2	0.0351	106 %	13-183	4L23006	EPA 8081B	12/29/14 15:55	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0049	U	mg/kg dry	1	0.0049	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
2,4-DB [94-82-6]^	0.0051	U	mg/kg dry	1	0.0051	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
4-Nitrophenol [100-02-7]^	0.0068	U	mg/kg dry	1	0.0068	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Acifluorfen [50594-66-6]^	0.0017	U	mg/kg dry	1	0.0017	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Bentazon [25057-89-0]^	0.0047	U	mg/kg dry	1	0.0047	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	J-05
Chloramben [133-90-4]^	0.0041	U	mg/kg dry	1	0.0041	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Dalapon [75-99-0]^	0.0052	U	mg/kg dry	1	0.0052	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Dichlorprop [120-36-5]^	0.0029	U	mg/kg dry	1	0.0029	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Dinoseb [88-85-7]^	0.0044	U	mg/kg dry	1	0.0044	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
MCPA [94-74-6]^	0.54	U	mg/kg dry	1	0.54	1.0	4L24014	EPA 8151A	12/30/14 16:52	RC	
MCPP [93-65-2]^	0.55	U	mg/kg dry	1	0.55	1.0	4L24014	EPA 8151A	12/30/14 16:52	RC	



ANALYTICAL RESULTS

Description: CS-15

Lab Sample ID: A407553-05

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:20

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 95.69

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	
Picloram [1918-02-1]^	0.0019	U	mg/kg dry	1	0.0019	0.010	4L24014	EPA 8151A	12/30/14 16:52	RC	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.028	1	0.0419	67 %	39-174	4L24014	EPA 8151A	12/30/14 16:52	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.603	I	mg/kg dry	1	0.433	0.608	4L26004	EPA 6010C	12/30/14 13:32	ACV	

ANALYTICAL RESULTS

Description: CS-16

Lab Sample ID: A407553-06

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:20

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 96.67

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
beta-BHC [319-85-7]^	0.0021	U	mg/kg dry	2	0.0021	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Chlordane (tech) [12789-03-6]^	0.017	U	mg/kg dry	2	0.017	0.068	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Chlordane-alpha [5103-71-9]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Chlordane-gamma [5566-34-7]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
delta-BHC [319-86-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endosulfan I [959-98-8]^	0.00081	U	mg/kg dry	2	0.00081	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endosulfan II [33213-65-9]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endosulfan sulfate [1031-07-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endrin aldehyde [7421-93-4]^	0.0017	U	mg/kg dry	2	0.0017	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Endrin ketone [53494-70-5]^	0.00097	U	mg/kg dry	2	0.00097	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Heptachlor epoxide [1024-57-3]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Methoxychlor [72-43-5]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	4L23006	EPA 8081B	12/29/14 16:06	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.018	2	0.0346	53 %	20-137	4L23006	EPA 8081B	12/29/14 16:06	JJB		
Decachlorobiphenyl	0.032	2	0.0346	93 %	13-183	4L23006	EPA 8081B	12/29/14 16:06	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0049	U	mg/kg dry	1	0.0049	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
2,4-DB [94-82-6]^	0.0051	U	mg/kg dry	1	0.0051	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
4-Nitrophenol [100-02-7]^	0.0067	U	mg/kg dry	1	0.0067	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Acifluorfen [50594-66-6]^	0.0017	U	mg/kg dry	1	0.0017	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Bentazon [25057-89-0]^	0.0047	U	mg/kg dry	1	0.0047	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	J-05
Chloramben [133-90-4]^	0.0040	U	mg/kg dry	1	0.0040	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Dalapon [75-99-0]^	0.0052	U	mg/kg dry	1	0.0052	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Dichlorprop [120-36-5]^	0.0029	U	mg/kg dry	1	0.0029	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Dinoseb [88-85-7]^	0.0043	U	mg/kg dry	1	0.0043	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
MCPA [94-74-6]^	0.54	U	mg/kg dry	1	0.54	1.0	4L24014	EPA 8151A	12/30/14 17:18	RC	
MCPP [93-65-2]^	0.55	U	mg/kg dry	1	0.55	1.0	4L24014	EPA 8151A	12/30/14 17:18	RC	



ANALYTICAL RESULTS

Description: CS-16

Lab Sample ID: A407553-06

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:20

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 96.67

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	
Picloram [1918-02-1]^	0.0019	U	mg/kg dry	1	0.0019	0.010	4L24014	EPA 8151A	12/30/14 17:18	RC	

Surrogates

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.029	1	0.0414	70 %	39-174	4L24014	EPA 8151A	12/30/14 17:18	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.466	U	mg/kg dry	1	0.466	0.655	4L26004	EPA 6010C	12/30/14 13:35	ACV	

ANALYTICAL RESULTS

Description: CS-14

Lab Sample ID: A407553-07

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:10

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 96.97

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
4,4'-DDD [72-54-8]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
beta-BHC [319-85-7]^	0.0021	U	mg/kg dry	2	0.0021	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Chlordane (tech) [12789-03-6]^	0.017	U	mg/kg dry	2	0.017	0.068	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Chlordane-alpha [5103-71-9]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Chlordane-gamma [5566-34-7]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
delta-BHC [319-86-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endosulfan I [959-98-8]^	0.00080	U	mg/kg dry	2	0.00080	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endosulfan II [33213-65-9]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endosulfan sulfate [1031-07-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endrin aldehyde [7421-93-4]^	0.0017	U	mg/kg dry	2	0.0017	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Endrin ketone [53494-70-5]^	0.00097	U	mg/kg dry	2	0.00097	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Heptachlor epoxide [1024-57-3]^	0.00099	U	mg/kg dry	2	0.00099	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Methoxychlor [72-43-5]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	4L23006	EPA 8081B	12/29/14 16:18	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	4L23006	EPA 8081B	12/29/14 16:18	JJB	
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
2,4,5,6-TCMX	0.039	2	0.0343	112 %	20-137	4L23006	EPA 8081B	12/29/14 16:18	JJB		
Decachlorobiphenyl	0.053	2	0.0343	154 %	13-183	4L23006	EPA 8081B	12/29/14 16:18	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0048	U	mg/kg dry	1	0.0048	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
2,4-DB [94-82-6]^	0.0051	U	mg/kg dry	1	0.0051	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
4-Nitrophenol [100-02-7]^	0.0067	U	mg/kg dry	1	0.0067	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Acifluorfen [50594-66-6]^	0.0016	U	mg/kg dry	1	0.0016	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Bentazon [25057-89-0]^	0.0046	U	mg/kg dry	1	0.0046	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	J-05
Chloramben [133-90-4]^	0.0040	U	mg/kg dry	1	0.0040	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Dalapon [75-99-0]^	0.0052	U	mg/kg dry	1	0.0052	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Dichlorprop [120-36-5]^	0.0029	U	mg/kg dry	1	0.0029	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Dinoseb [88-85-7]^	0.0043	U	mg/kg dry	1	0.0043	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
MCPA [94-74-6]^	0.54	U	mg/kg dry	1	0.54	1.0	4L24014	EPA 8151A	12/30/14 17:44	RC	
MCPP [93-65-2]^	0.55	U	mg/kg dry	1	0.55	1.0	4L24014	EPA 8151A	12/30/14 17:44	RC	



ANALYTICAL RESULTS

Description: CS-14

Lab Sample ID: A407553-07

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:10

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 96.97

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	
Picloram [1918-02-1]^	0.0019	U	mg/kg dry	1	0.0019	0.010	4L24014	EPA 8151A	12/30/14 17:44	RC	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.026	1	0.0414	63 %	39-174	4L24014	EPA 8151A	12/30/14 17:44	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.459	U	mg/kg dry	1	0.459	0.645	4L26004	EPA 6010C	12/30/14 13:42	ACV	

ANALYTICAL RESULTS

Description: CS-17

Lab Sample ID: A407553-08

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:52

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 90.87

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
4,4'-DDT [50-29-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
beta-BHC [319-85-7]^	0.0022	U	mg/kg dry	2	0.0022	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Chlordane (tech) [12789-03-6]^	0.018	U	mg/kg dry	2	0.018	0.073	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Chlordane-alpha [5103-71-9]^	0.00099	U	mg/kg dry	2	0.00099	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Chlordane-gamma [5566-34-7]^	0.00099	U	mg/kg dry	2	0.00099	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
delta-BHC [319-86-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Dieldrin [60-57-1]^	0.00099	U	mg/kg dry	2	0.00099	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endosulfan I [959-98-8]^	0.00086	U	mg/kg dry	2	0.00086	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endosulfan II [33213-65-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endosulfan sulfate [1031-07-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endrin [72-20-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endrin aldehyde [7421-93-4]^	0.0018	U	mg/kg dry	2	0.0018	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Endrin ketone [53494-70-5]^	0.0010	U	mg/kg dry	2	0.0010	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
gamma-BHC [58-89-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Heptachlor epoxide [1024-57-3]^	0.0011	U	mg/kg dry	2	0.0011	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Isodrin [465-73-6]^	0.0014	U	mg/kg dry	2	0.0014	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Mirex [2385-85-5]^	0.0024	U	mg/kg dry	2	0.0024	0.0037	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Toxaphene [8001-35-2]^	0.037	U	mg/kg dry	2	0.037	0.073	4L23006	EPA 8081B	12/29/14 16:29	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.039	2	0.0367	107 %	20-137	4L23006	EPA 8081B	12/29/14 16:29	JJB		
Decachlorobiphenyl	0.049	2	0.0367	133 %	13-183	4L23006	EPA 8081B	12/29/14 16:29	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0028	U	mg/kg dry	1	0.0028	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0052	U	mg/kg dry	1	0.0052	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
2,4-D [94-75-7]^	0.011	U	mg/kg dry	1	0.011	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
2,4-DB [94-82-6]^	0.0054	U	mg/kg dry	1	0.0054	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
3,5-DCBA [51-365-5]^	0.0024	U	mg/kg dry	1	0.0024	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
4-Nitrophenol [100-02-7]^	0.0072	U	mg/kg dry	1	0.0072	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Acifluorfen [50594-66-6]^	0.0018	U	mg/kg dry	1	0.0018	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Bentazon [25057-89-0]^	0.0050	U	mg/kg dry	1	0.0050	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	J-05
Chloramben [133-90-4]^	0.0043	U	mg/kg dry	1	0.0043	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Dalapon [75-99-0]^	0.0055	U	mg/kg dry	1	0.0055	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Dicamba [1918-00-9]^	0.0025	U	mg/kg dry	1	0.0025	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Dichlorprop [120-36-5]^	0.0031	U	mg/kg dry	1	0.0031	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
Dinoseb [88-85-7]^	0.0046	U	mg/kg dry	1	0.0046	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	
MCPA [94-74-6]^	0.57	U	mg/kg dry	1	0.57	1.1	4L24014	EPA 8151A	12/30/14 18:10	RC	
MCPP [93-65-2]^	0.58	U	mg/kg dry	1	0.58	1.1	4L24014	EPA 8151A	12/30/14 18:10	RC	
Pentachlorophenol [87-86-5]^	0.0028	U	mg/kg dry	1	0.0028	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	



ANALYTICAL RESULTS

Description: CS-17

Lab Sample ID: A407553-08

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:52

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 90.87

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Picloram [1918-02-1]^	0.0020	U	mg/kg dry	1	0.0020	0.011	4L24014	EPA 8151A	12/30/14 18:10	RC	

<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.032	1	0.0442	73 %	39-174	4L24014	EPA 8151A	12/30/14 18:10	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.490	U	mg/kg dry	1	0.490	0.688	4L26004	EPA 6010C	12/30/14 13:45	ACV	

ANALYTICAL RESULTS

Description: CS-13

Lab Sample ID: A407553-09

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:15

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 96.52

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.00050	U	mg/kg dry	1	0.00050	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
4,4'-DDE [72-55-9]^	0.00054	U	mg/kg dry	1	0.00054	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
4,4'-DDT [50-29-3]^	0.00068	U	mg/kg dry	1	0.00068	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Aldrin [309-00-2]^	0.00053	U	mg/kg dry	1	0.00053	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
alpha-BHC [319-84-6]^	0.00058	U	mg/kg dry	1	0.00058	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
beta-BHC [319-85-7]^	0.0010	U	mg/kg dry	1	0.0010	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Chlordane (tech) [12789-03-6]^	0.0087	U	mg/kg dry	1	0.0087	0.034	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Chlordane-alpha [5103-71-9]^	0.00047	U	mg/kg dry	1	0.00047	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Chlordane-gamma [5566-34-7]^	0.00047	U	mg/kg dry	1	0.00047	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
delta-BHC [319-86-8]^	0.00052	U	mg/kg dry	1	0.00052	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Dieldrin [60-57-1]^	0.00047	U	mg/kg dry	1	0.00047	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endosulfan I [959-98-8]^	0.00040	U	mg/kg dry	1	0.00040	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endosulfan II [33213-65-9]^	0.00050	U	mg/kg dry	1	0.00050	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endosulfan sulfate [1031-07-8]^	0.00051	U	mg/kg dry	1	0.00051	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endrin [72-20-8]^	0.00077	U	mg/kg dry	1	0.00077	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endrin aldehyde [7421-93-4]^	0.00086	U	mg/kg dry	1	0.00086	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Endrin ketone [53494-70-5]^	0.00049	U	mg/kg dry	1	0.00049	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
gamma-BHC [58-89-9]^	0.00062	U	mg/kg dry	1	0.00062	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Heptachlor [76-44-8]^	0.00064	U	mg/kg dry	1	0.00064	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Heptachlor epoxide [1024-57-3]^	0.00050	U	mg/kg dry	1	0.00050	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Isodrin [465-73-6]^	0.00064	U	mg/kg dry	1	0.00064	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Methoxychlor [72-43-5]^	0.00089	U	mg/kg dry	1	0.00089	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Mirex [2385-85-5]^	0.0011	U	mg/kg dry	1	0.0011	0.0018	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Toxaphene [8001-35-2]^	0.018	U	mg/kg dry	1	0.018	0.034	4L23006	EPA 8081B	12/29/14 16:40	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.025	1	0.0345	71 %	20-137	4L23006	EPA 8081B	12/29/14 16:40	JJB		
Decachlorobiphenyl	0.033	1	0.0345	96 %	13-183	4L23006	EPA 8081B	12/29/14 16:40	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0049	U	mg/kg dry	1	0.0049	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
2,4-DB [94-82-6]^	0.0051	U	mg/kg dry	1	0.0051	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	QM-07, QM-11
4-Nitrophenol [100-02-7]^	0.0067	U	mg/kg dry	1	0.0067	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	QM-07
Acifluorfen [50594-66-6]^	0.0017	U	mg/kg dry	1	0.0017	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
Chloramben [133-90-4]^	0.0040	U	mg/kg dry	1	0.0040	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	QM-07
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
Dalapon [75-99-0]^	0.0052	U	mg/kg dry	1	0.0052	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
Dichlorprop [120-36-5]^	0.0029	U	mg/kg dry	1	0.0029	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
Dinoseb [88-85-7]^	0.0044	U	mg/kg dry	1	0.0044	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	
MCPA [94-74-6]^	0.54	U	mg/kg dry	1	0.54	1.0	4L26015	EPA 8151A	12/30/14 12:57	RC	
MCPP [93-65-2]^	0.55	U	mg/kg dry	1	0.55	1.0	4L26015	EPA 8151A	12/30/14 12:57	RC	QM-11
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.010	4L26015	EPA 8151A	12/30/14 12:57	RC	



ANALYTICAL RESULTS

Description: CS-13	Lab Sample ID: A407553-09	Received: 12/19/14 15:35
Matrix: Soil	Sampled: 12/19/14 14:15	Work Order: A407553
Project: I-4 Level II	Sampled By: Jerry Governale	% Solids: 96.52

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>		<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.022	1	0.0413	53 %	39-174		4L26015	EPA 8151A	12/30/14 12:57	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	0.439	U	mg/kg dry	1	0.439	0.617	4L26004	EPA 6010C	12/30/14 13:48	ACV	

ANALYTICAL RESULTS

Description: CS-19

Lab Sample ID: A407553-10

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:10

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 94.47

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
4,4'-DDE [72-55-9]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
beta-BHC [319-85-7]^	0.0021	U	mg/kg dry	2	0.0021	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Chlordane (tech) [12789-03-6]^	0.018	U	mg/kg dry	2	0.018	0.070	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Chlordane-alpha [5103-71-9]^	0.00095	U	mg/kg dry	2	0.00095	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Chlordane-gamma [5566-34-7]^	0.00095	U	mg/kg dry	2	0.00095	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
delta-BHC [319-86-8]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Dieldrin [60-57-1]^	0.00095	U	mg/kg dry	2	0.00095	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endosulfan I [959-98-8]^	0.00083	U	mg/kg dry	2	0.00083	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endosulfan II [33213-65-9]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endosulfan sulfate [1031-07-8]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endrin [72-20-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endrin aldehyde [7421-93-4]^	0.0018	U	mg/kg dry	2	0.0018	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Endrin ketone [53494-70-5]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
gamma-BHC [58-89-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Heptachlor epoxide [1024-57-3]^	0.0010	U	mg/kg dry	2	0.0010	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Methoxychlor [72-43-5]^	0.0018	U	mg/kg dry	2	0.0018	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0036	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Toxaphene [8001-35-2]^	0.036	U	mg/kg dry	2	0.036	0.070	4L23006	EPA 8081B	12/29/14 16:52	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.035	2	0.0354	99 %	20-137	4L23006	EPA 8081B	12/29/14 16:52	JJB		
Decachlorobiphenyl	0.044	2	0.0354	124 %	13-183	4L23006	EPA 8081B	12/29/14 16:52	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0026	U	mg/kg dry	1	0.0026	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0050	U	mg/kg dry	1	0.0050	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
2,4-D [94-75-7]^	0.010	U	mg/kg dry	1	0.010	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
2,4-DB [94-82-6]^	0.0052	U	mg/kg dry	1	0.0052	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
3,5-DCBA [51-365-5]^	0.0023	U	mg/kg dry	1	0.0023	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
4-Nitrophenol [100-02-7]^	0.0069	U	mg/kg dry	1	0.0069	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Acifluorfen [50594-66-6]^	0.0017	U	mg/kg dry	1	0.0017	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Chloramben [133-90-4]^	0.0041	U	mg/kg dry	1	0.0041	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Dacthal [1861-32-1]^	0.0025	U	mg/kg dry	1	0.0025	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Dalapon [75-99-0]^	0.0053	U	mg/kg dry	1	0.0053	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Dicamba [1918-00-9]^	0.0024	U	mg/kg dry	1	0.0024	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Dichlorprop [120-36-5]^	0.0030	U	mg/kg dry	1	0.0030	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
Dinoseb [88-85-7]^	0.0044	U	mg/kg dry	1	0.0044	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	
MCPA [94-74-6]^	0.55	U	mg/kg dry	1	0.55	1.1	4L26015	EPA 8151A	12/30/14 18:36	RC	
MCPP [93-65-2]^	0.56	U	mg/kg dry	1	0.56	1.1	4L26015	EPA 8151A	12/30/14 18:36	RC	
Pentachlorophenol [87-86-5]^	0.0026	U	mg/kg dry	1	0.0026	0.011	4L26015	EPA 8151A	12/30/14 18:36	RC	



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ANALYTICAL RESULTS

Description: CS-19

Lab Sample ID: A407553-10

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 13:10

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 94.47

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>		<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
2,4-DCAA	0.034	1	0.0422	81 %	39-174		4L26015	EPA 8151A	12/30/14 18:36	RC	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.483	U	mg/kg dry	1	0.483	0.679	4L26004	EPA 6010C	12/30/14 13:51	ACV	

ANALYTICAL RESULTS

Description: CS-20

Lab Sample ID: A407553-11

Received: 12/19/14 15:35

Matrix: Soil

Sampled: 12/19/14 14:00

Work Order: A407553

Project: I-4 Level II

Sampled By: Jerry Governale

% Solids: 93.34

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.00051	U	mg/kg dry	1	0.00051	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
4,4'-DDE [72-55-9]^	0.00056	U	mg/kg dry	1	0.00056	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
4,4'-DDT [50-29-3]^	0.00071	U	mg/kg dry	1	0.00071	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Aldrin [309-00-2]^	0.00055	U	mg/kg dry	1	0.00055	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
alpha-BHC [319-84-6]^	0.00060	U	mg/kg dry	1	0.00060	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
beta-BHC [319-85-7]^	0.0011	U	mg/kg dry	1	0.0011	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Chlordane (tech) [12789-03-6]^	0.72		mg/kg dry	10	0.090	0.35	4L23006	EPA 8081B	01/07/15 13:24	JJB	
Chlordane-alpha [5103-71-9]^	0.22		mg/kg dry	10	0.0048	0.018	4L23006	EPA 8081B	01/07/15 13:24	JJB	GC-07
Chlordane-gamma [5566-34-7]^	0.19		mg/kg dry	10	0.0048	0.018	4L23006	EPA 8081B	01/07/15 13:24	JJB	
delta-BHC [319-86-8]^	0.00054	U	mg/kg dry	1	0.00054	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Dieldrin [60-57-1]^	0.00048	U	mg/kg dry	1	0.00048	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endosulfan I [959-98-8]^	0.00042	U	mg/kg dry	1	0.00042	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endosulfan II [33213-65-9]^	0.00051	U	mg/kg dry	1	0.00051	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endosulfan sulfate [1031-07-8]^	0.00052	U	mg/kg dry	1	0.00052	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endrin [72-20-8]^	0.00079	U	mg/kg dry	1	0.00079	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endrin aldehyde [7421-93-4]^	0.00089	U	mg/kg dry	1	0.00089	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Endrin ketone [53494-70-5]^	0.00050	U	mg/kg dry	1	0.00050	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
gamma-BHC [58-89-9]^	0.00064	U	mg/kg dry	1	0.00064	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Heptachlor [76-44-8]^	0.00066	U	mg/kg dry	1	0.00066	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Heptachlor epoxide [1024-57-3]^	0.00051	U	mg/kg dry	1	0.00051	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Isodrin [465-73-6]^	0.00066	U	mg/kg dry	1	0.00066	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Methoxychlor [72-43-5]^	0.00092	U	mg/kg dry	1	0.00092	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Mirex [2385-85-5]^	0.0012	U	mg/kg dry	1	0.0012	0.0018	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Toxaphene [8001-35-2]^	0.018	U	mg/kg dry	1	0.018	0.035	4L23006	EPA 8081B	12/29/14 17:03	JJB	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
2,4,5,6-TCMX	0.026	1	0.0354	74 %	20-137	4L23006	EPA 8081B	12/29/14 17:03	JJB		
Decachlorobiphenyl	0.033	1	0.0354	94 %	13-183	4L23006	EPA 8081B	12/29/14 17:03	JJB		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2,4,5-T [93-76-5]^	0.0027	U	mg/kg dry	1	0.0027	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
2,4,5-TP (Silvex) [93-72-1]^	0.0050	U	mg/kg dry	1	0.0050	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
2,4-D [94-75-7]^	0.011	U	mg/kg dry	1	0.011	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
2,4-DB [94-82-6]^	0.0052	U	mg/kg dry	1	0.0052	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
3,5-DCBA [51-365-5]^	0.0024	U	mg/kg dry	1	0.0024	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
4-Nitrophenol [100-02-7]^	0.0070	U	mg/kg dry	1	0.0070	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Acifluorfen [50594-66-6]^	0.0017	U	mg/kg dry	1	0.0017	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Chloramben [133-90-4]^	0.0042	U	mg/kg dry	1	0.0042	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Dacthal [1861-32-1]^	0.0026	U	mg/kg dry	1	0.0026	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Dalapon [75-99-0]^	0.0054	U	mg/kg dry	1	0.0054	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Dicamba [1918-00-9]^	0.0025	U	mg/kg dry	1	0.0025	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Dichlorprop [120-36-5]^	0.0030	U	mg/kg dry	1	0.0030	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
Dinoseb [88-85-7]^	0.0045	U	mg/kg dry	1	0.0045	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	
MCPA [94-74-6]^	0.56	U	mg/kg dry	1	0.56	1.1	4L26015	EPA 8151A	12/30/14 19:02	RC	
MCPP [93-65-2]^	0.57	U	mg/kg dry	1	0.57	1.1	4L26015	EPA 8151A	12/30/14 19:02	RC	
Pentachlorophenol [87-86-5]^	0.0027	U	mg/kg dry	1	0.0027	0.011	4L26015	EPA 8151A	12/30/14 19:02	RC	

ANALYTICAL RESULTS

Description: CS-20	Lab Sample ID: A407553-11	Received: 12/19/14 15:35
Matrix: Soil	Sampled: 12/19/14 14:00	Work Order: A407553
Project: I-4 Level II	Sampled By: Jerry Governale	% Solids: 93.34

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
<u>Surrogates</u>	<u>Results</u>	<u>DF</u>	<u>Spike Lvl</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>	
2,4-DCAA	0.031	1	0.0429	71 %	39-174	4L26015	EPA 8151A	12/30/14 19:02	RC		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.522	U	mg/kg dry	1	0.522	0.734	4L26004	EPA 6010C	12/30/14 13:54	ACV	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L24010 - EPA 5030B_MS

Blank (4L24010-BLK1)

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 09:21

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1,1,2-Tetrachloroethane	0.0004	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.0004	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0003	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0006	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.0005	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0009	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0008	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.0007	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0006	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0003	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0006	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.0006	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0005	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.0004	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0004	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.0004	U	0.0010	mg/kg wet							
2-Butanone	0.0018	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.0017	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.0005	U	0.0010	mg/kg wet							
2-Hexanone	0.0009	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.0006	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.0008	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.0014	U	0.0050	mg/kg wet							
Acetone	0.0046	I	0.0050	mg/kg wet							

J-01, O-01

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L24010 - EPA 5030B_MS - Continued

Blank (4L24010-BLK1) Continued

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 09:21

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Benzene	0.0004	U	0.0010	mg/kg wet							
Bromobenzene	0.0004	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0004	U	0.0010	mg/kg wet							
Bromoform	0.0003	U	0.0010	mg/kg wet							
Bromomethane	0.0009	U	0.0010	mg/kg wet							
Carbon disulfide	0.0021	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0006	U	0.0010	mg/kg wet							
Chlorobenzene	0.0005	U	0.0010	mg/kg wet							
Chloroethane	0.0005	U	0.0010	mg/kg wet							
Chloroform	0.0004	U	0.0010	mg/kg wet							
Chloromethane	0.0006	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0005	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0003	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0003	U	0.0010	mg/kg wet							
Dibromomethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0006	U	0.0010	mg/kg wet							
Ethylbenzene	0.0006	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.0009	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0005	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0010	U	0.0020	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
Naphthalene	0.0006	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.0009	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.0006	U	0.0010	mg/kg wet							
o-Xylene	0.0005	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.0006	U	0.0010	mg/kg wet							
Styrene	0.0004	U	0.0010	mg/kg wet							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L24010 - EPA 5030B_MS - Continued

Blank (4L24010-BLK1) Continued

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 09:21

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
tert-Butylbenzene	0.0006	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0005	U	0.0010	mg/kg wet							
Toluene	0.0005	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0007	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0003	U	0.0010	mg/kg wet							
Trichloroethene	0.0005	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0005	U	0.0010	mg/kg wet							
Vinyl chloride	0.0004	U	0.0010	mg/kg wet							
Xylenes (Total)	0.0010	U	0.0020	mg/kg wet							
<i>4-Bromofluorobenzene</i>	<i>51</i>			<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>71-126</i>			
<i>Dibromofluoromethane</i>	<i>47</i>			<i>ug/L</i>	<i>50.0</i>		<i>95</i>	<i>72-133</i>			
<i>Toluene-d8</i>	<i>51</i>			<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>80-123</i>			

LCS (4L24010-BS1)

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 07:57

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1-Dichloroethene	0.020		0.0010	mg/kg wet	0.0200		102	61-124			
Benzene	0.020		0.0010	mg/kg wet	0.0200		98	59-133			
Chlorobenzene	0.018		0.0010	mg/kg wet	0.0200		92	69-121			
Toluene	0.020		0.0010	mg/kg wet	0.0200		100	66-119			
Trichloroethene	0.020		0.0010	mg/kg wet	0.0200		101	71-122			
<i>4-Bromofluorobenzene</i>	<i>46</i>			<i>ug/L</i>	<i>50.0</i>		<i>91</i>	<i>71-126</i>			
<i>Dibromofluoromethane</i>	<i>43</i>			<i>ug/L</i>	<i>50.0</i>		<i>87</i>	<i>72-133</i>			
<i>Toluene-d8</i>	<i>49</i>			<i>ug/L</i>	<i>50.0</i>		<i>98</i>	<i>80-123</i>			

LCS Dup (4L24010-BSD1)

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 08:25

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1-Dichloroethene	0.020		0.0010	mg/kg wet	0.0200		99	61-124	3	23	
Benzene	0.019		0.0010	mg/kg wet	0.0200		93	59-133	6	19	
Chlorobenzene	0.018		0.0010	mg/kg wet	0.0200		91	69-121	1	18	
Toluene	0.019		0.0010	mg/kg wet	0.0200		96	66-119	3	21	
Trichloroethene	0.019		0.0010	mg/kg wet	0.0200		95	71-122	6	26	
<i>4-Bromofluorobenzene</i>	<i>44</i>			<i>ug/L</i>	<i>50.0</i>		<i>88</i>	<i>71-126</i>			
<i>Dibromofluoromethane</i>	<i>40</i>			<i>ug/L</i>	<i>50.0</i>		<i>80</i>	<i>72-133</i>			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L24010 - EPA 5030B_MS - Continued

LCS Dup (4L24010-BSD1) Continued

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 08:25

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene-d8	45			ug/L	50.0		89	80-123			

Matrix Spike (4L24010-MS1)

Prepared: 12/24/2014 00:00 Analyzed: 12/24/2014 15:55

Source: A407269-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.022		0.0012	mg/kg dry	0.0231	0.0007 U	96	61-124			
Benzene	0.020		0.0012	mg/kg dry	0.0231	0.0005 U	89	59-133			
Chlorobenzene	0.019		0.0012	mg/kg dry	0.0231	0.0006 U	84	69-121			
Toluene	0.022		0.0012	mg/kg dry	0.0231	0.0005 U	94	66-119			
Trichloroethene	0.023		0.0012	mg/kg dry	0.0231	0.0006 U	99	71-122			
4-Bromofluorobenzene	47			ug/L	50.0		94	71-126			
Dibromofluoromethane	40			ug/L	50.0		79	72-133			
Toluene-d8	50			ug/L	50.0		100	80-123			

Batch 4L31025 - EPA 5030B_MS

Blank (4L31025-BLK1)

Prepared: 12/31/2014 00:00 Analyzed: 12/31/2014 23:36

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							
1,1-Dichloroethane	0.62	U	1.0	ug/L							
1,1-Dichloroethene	0.94	U	1.0	ug/L							
1,1-Dichloropropene	0.74	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.86	U	1.0	ug/L							
1,2,3-Trichloropropane	0.64	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.70	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.69	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.96	U	1.0	ug/L							
1,2-Dibromoethane	0.78	U	1.0	ug/L							
1,2-Dichlorobenzene	0.73	U	1.0	ug/L							
1,2-Dichloroethane	0.63	U	1.0	ug/L							
1,2-Dichloropropane	0.80	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.58	U	1.0	ug/L							
1,3-Dichlorobenzene	0.77	U	1.0	ug/L							
1,3-Dichloropropane	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.76	U	1.0	ug/L							
2,2-Dichloropropane	0.66	U	1.0	ug/L							
2-Butanone	4.5	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.9	U	5.0	ug/L							
2-Chlorotoluene	0.68	U	1.0	ug/L							
2-Hexanone	1.4	U	5.0	ug/L							
4-Chlorotoluene	0.65	U	1.0	ug/L							
4-Isopropyltoluene	0.80	U	1.0	ug/L							
4-Methyl-2-pentanone	0.79	U	5.0	ug/L							
Acetone	5.0	U	10	ug/L							
Benzene	0.71	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L31025 - EPA 5030B_MS - Continued

Blank (4L31025-BLK1) Continued

Prepared: 12/31/2014 00:00 Analyzed: 12/31/2014 23:36

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Bromobenzene	0.77	U	1.0	ug/L							
Bromochloromethane	0.94	U	1.0	ug/L							
Bromodichloromethane	0.52	U	1.0	ug/L							
Bromoform	0.75	U	1.0	ug/L							
Bromomethane	0.95	U	1.0	ug/L							
Carbon disulfide	2.6	U	5.0	ug/L							
Carbon tetrachloride	0.94	U	1.0	ug/L							
Chlorobenzene	0.72	U	1.0	ug/L							
Chloroethane	0.98	U	1.0	ug/L							
Chloroform	0.80	U	1.0	ug/L							
Chloromethane	0.82	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.53	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.59	U	1.0	ug/L							
Dibromochloromethane	0.44	U	1.0	ug/L							
Dibromomethane	0.84	U	1.0	ug/L							
Dichlorodifluoromethane	0.74	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
Hexachlorobutadiene	0.70	U	1.0	ug/L							
Isopropylbenzene	0.67	U	1.0	ug/L							
m,p-Xylenes	1.3	U	2.0	ug/L							
Methylene chloride	2.0	U	5.0	ug/L							
Methyl-tert-Butyl Ether	0.60	U	1.0	ug/L							
Naphthalene	0.82	U	1.0	ug/L							
n-Butyl Benzene	0.70	U	1.0	ug/L							
n-Propyl Benzene	0.70	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
sec-Butylbenzene	0.74	U	1.0	ug/L							
Styrene	0.61	U	1.0	ug/L							
tert-Butylbenzene	0.64	U	1.0	ug/L							
Tetrachloroethene	0.76	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							
Trichloroethene	0.89	U	1.0	ug/L							
Trichlorofluoromethane	0.94	U	1.0	ug/L							
Vinyl chloride	0.71	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
<i>4-Bromofluorobenzene</i>	<i>49</i>			<i>ug/L</i>	<i>50.0</i>		<i>98</i>	<i>41-142</i>			
<i>Dibromofluoromethane</i>	<i>52</i>			<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>53-146</i>			
<i>Toluene-d8</i>	<i>48</i>			<i>ug/L</i>	<i>50.0</i>		<i>95</i>	<i>41-146</i>			

LCS (4L31025-BS1)

Prepared: 12/31/2014 00:00 Analyzed: 12/31/2014 22:38

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	47-139			
Benzene	19		1.0	ug/L	20.0		97	56-136			
Chlorobenzene	20		1.0	ug/L	20.0		98	51-139			
Toluene	20		1.0	ug/L	20.0		99	64-131			
Trichloroethene	20		1.0	ug/L	20.0		102	62-135			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4L31025 - EPA 5030B_MS - Continued

LCS (4L31025-BS1) Continued

Prepared: 12/31/2014 00:00 Analyzed: 12/31/2014 22:38

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Bromofluorobenzene	48			ug/L	50.0		96	41-142			
Dibromofluoromethane	50			ug/L	50.0		101	53-146			
Toluene-d8	48			ug/L	50.0		97	41-146			

Matrix Spike (4L31025-MS1)

Prepared: 12/31/2014 00:00 Analyzed: 01/01/2015 05:26

Source: A407553-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.94 U	135	47-139			
Benzene	22		1.0	ug/L	20.0	0.71 U	112	56-136			
Chlorobenzene	21		1.0	ug/L	20.0	0.72 U	107	51-139			
Toluene	22		1.0	ug/L	20.0	0.72 U	109	64-131			
Trichloroethene	23		1.0	ug/L	20.0	0.89 U	114	62-135			
4-Bromofluorobenzene	49			ug/L	50.0		98	41-142			
Dibromofluoromethane	53			ug/L	50.0		105	53-146			
Toluene-d8	49			ug/L	50.0		99	41-146			

Matrix Spike Dup (4L31025-MSD1)

Prepared: 12/31/2014 00:00 Analyzed: 01/01/2015 05:55

Source: A407553-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.94 U	125	47-139	7	16	
Benzene	22		1.0	ug/L	20.0	0.71 U	109	56-136	3	14	
Chlorobenzene	21		1.0	ug/L	20.0	0.72 U	107	51-139	0.09	13	
Toluene	22		1.0	ug/L	20.0	0.72 U	110	64-131	1	16	
Trichloroethene	22		1.0	ug/L	20.0	0.89 U	111	62-135	2	20	
4-Bromofluorobenzene	49			ug/L	50.0		97	41-142			
Dibromofluoromethane	52			ug/L	50.0		103	53-146			
Toluene-d8	49			ug/L	50.0		98	41-146			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 4L31025 - EPA 5030B_MS

Blank (4L31025-BLK1)

Prepared: 12/31/2014 00:00 Analyzed: 12/31/2014 23:36

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	0.0			ug/L							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS

Blank (4L22002-BLK1)

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:09

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	0.11	U	0.33	mg/kg wet							
1,2-Dichlorobenzene	0.12	U	0.33	mg/kg wet							
1,3-Dichlorobenzene	0.12	U	0.33	mg/kg wet							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS - Continued

Blank (4L22002-BLK1) Continued

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:09

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,4-Dichlorobenzene	0.10	U	0.33	mg/kg wet							
1-Methylnaphthalene	0.096	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.067	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.15	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.25	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.23	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.089	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.16	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.18	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.098	U	0.33	mg/kg wet							
2-Chlorophenol	0.23	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.28	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.12	U	0.33	mg/kg wet							
2-Methylphenol	0.11	U	0.33	mg/kg wet							
2-Nitroaniline	0.085	U	0.33	mg/kg wet							
2-Nitrophenol	0.26	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.25	U	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	0.21	U	0.33	mg/kg wet							
3-Nitroaniline	0.080	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.13	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.28	U	0.33	mg/kg wet							
4-Chloroaniline	0.065	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.13	U	0.33	mg/kg wet							
4-Nitroaniline	0.26	U	0.33	mg/kg wet							
4-Nitrophenol	0.13	U	0.33	mg/kg wet							
Acenaphthene	0.13	U	0.33	mg/kg wet							
Acenaphthylene	0.12	U	0.33	mg/kg wet							
Anthracene	0.15	U	0.33	mg/kg wet							
Benzidine	0.086	U	0.33	mg/kg wet							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS - Continued

Blank (4L22002-BLK1) Continued

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:09

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Benzo(a)anthracene	0.13	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.078	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.11	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.16	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.11	U	0.33	mg/kg wet							
Benzoic acid	0.48	U	1.7	mg/kg wet							
Benzyl alcohol	0.16	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.15	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.14	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.099	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.13	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.14	U	0.33	mg/kg wet							
Chrysene	0.13	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.14	U	0.33	mg/kg wet							
Dibenzofuran	0.13	U	0.33	mg/kg wet							
Diethylphthalate	0.13	U	0.33	mg/kg wet							
Dimethylphthalate	0.13	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.13	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.13	U	0.33	mg/kg wet							
Fluoranthene	0.11	U	0.33	mg/kg wet							
Fluorene	0.14	U	0.33	mg/kg wet							
Hexachlorobenzene	0.12	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.13	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.15	U	0.33	mg/kg wet							
Hexachloroethane	0.10	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.14	U	0.33	mg/kg wet							
Isophorone	0.17	U	0.33	mg/kg wet							
Naphthalene	0.12	U	0.33	mg/kg wet							
Nitrobenzene	0.15	U	0.33	mg/kg wet							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS - Continued

Blank (4L22002-BLK1) Continued

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:09

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
N-Nitrosodimethylamine	0.12	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.15	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.23	U	0.33	mg/kg wet							
Pentachlorophenol	0.21	U	0.33	mg/kg wet							
Phenanthrene	0.13	U	0.33	mg/kg wet							
Phenol	0.099	U	0.33	mg/kg wet							
Pyrene	0.11	U	0.33	mg/kg wet							
Pyridine	0.15	U	0.33	mg/kg wet							
<i>2,4,6-Tribromophenol</i>	<i>1.1</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>66</i>	<i>23-137</i>			
<i>2-Fluorobiphenyl</i>	<i>1.5</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>88</i>	<i>29-119</i>			
<i>2-Fluorophenol</i>	<i>2.2</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>129</i>	<i>20-124</i>			<i>QS-03</i>
<i>Nitrobenzene-d5</i>	<i>1.9</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>115</i>	<i>17-126</i>			
<i>Phenol-d5</i>	<i>2.4</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>145</i>	<i>15-131</i>			<i>QS-03</i>
<i>Terphenyl-d14</i>	<i>2.0</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>118</i>	<i>60-120</i>			

LCS (4L22002-BS1)

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:38

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	1.5		0.33	mg/kg wet	1.67		90	36-119			
1,4-Dichlorobenzene	1.5		0.33	mg/kg wet	1.67		87	32-116			
2,4-Dinitrotoluene	1.9		0.33	mg/kg wet	1.67		112	54-125			
2-Chlorophenol	1.7		0.33	mg/kg wet	1.67		102	50-105			
4-Chloro-3-methylphenol	1.9		0.33	mg/kg wet	1.67		113	55-106			QL-02
4-Nitrophenol	2.1		0.33	mg/kg wet	1.67		127	30-124			QL-02
Acenaphthene	1.5		0.33	mg/kg wet	1.67		89	49-111			
N-Nitroso-di-n-propylamine	2.1		0.33	mg/kg wet	1.67		126	52-126			
Pentachlorophenol	1.1		0.33	mg/kg wet	1.67		64	10-101			
Phenol	1.9		0.33	mg/kg wet	1.67		114	28-121			
Pyrene	2.0		0.33	mg/kg wet	1.67		121	66-115			QL-02
<i>2,4,6-Tribromophenol</i>	<i>1.4</i>			<i>mg/kg wet</i>	<i>1.67</i>		<i>86</i>	<i>23-137</i>			

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS - Continued

LCS (4L22002-BS1) Continued

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 17:38

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2-Fluorobiphenyl	1.3			mg/kg wet	1.67		78	29-119			
2-Fluorophenol	1.8			mg/kg wet	1.67		109	20-124			
Nitrobenzene-d5	1.8			mg/kg wet	1.67		110	17-126			
Phenol-d5	1.9			mg/kg wet	1.67		114	15-131			
Terphenyl-d14	1.8			mg/kg wet	1.67		106	60-120			

Matrix Spike (4L22002-MS1)

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 18:06

Source: A407258-02

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	1.6		0.38	mg/kg dry	1.90	0.13 U	82	36-119			
1,4-Dichlorobenzene	1.4		0.38	mg/kg dry	1.90	0.11 U	74	32-116			
2,4-Dinitrotoluene	2.1		0.38	mg/kg dry	1.90	0.18 U	109	54-125			
2-Chlorophenol	1.8		0.38	mg/kg dry	1.90	0.26 U	97	50-105			
4-Chloro-3-methylphenol	2.1		0.38	mg/kg dry	1.90	0.32 U	111	55-106			QM-07
4-Nitrophenol	2.4		0.38	mg/kg dry	1.90	0.15 U	129	30-124			J-02
Acenaphthene	1.7		0.38	mg/kg dry	1.90	0.15 U	87	49-111			
N-Nitroso-di-n-propylamine	2.2		0.38	mg/kg dry	1.90	0.17 U	118	52-126			
Pentachlorophenol	1.4		0.38	mg/kg dry	1.90	0.24 U	73	10-101			
Phenol	2.1		0.38	mg/kg dry	1.90	0.11 U	110	28-121			
Pyrene	2.2		0.38	mg/kg dry	1.90	0.13 U	116	66-115			J-02
2,4,6-Tribromophenol	1.7			mg/kg dry	1.90		88	23-137			
2-Fluorobiphenyl	1.4			mg/kg dry	1.90		76	29-119			
2-Fluorophenol	1.9			mg/kg dry	1.90		100	20-124			
Nitrobenzene-d5	2.0			mg/kg dry	1.90		104	17-126			
Phenol-d5	2.1			mg/kg dry	1.90		109	15-131			
Terphenyl-d14	1.9			mg/kg dry	1.90		101	60-120			

Matrix Spike Dup (4L22002-MSD1)

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 18:34

Source: A407258-02

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	1.5		0.38	mg/kg dry	1.92	0.13 U	79	36-119	3	32	
1,4-Dichlorobenzene	1.4		0.38	mg/kg dry	1.92	0.11 U	71	32-116	4	34	
2,4-Dinitrotoluene	2.1		0.38	mg/kg dry	1.92	0.18 U	112	54-125	4	23	
2-Chlorophenol	1.7		0.38	mg/kg dry	1.92	0.26 U	90	50-105	7	27	
4-Chloro-3-methylphenol	2.1		0.38	mg/kg dry	1.92	0.32 U	112	55-106	2	28	QM-07
4-Nitrophenol	2.6		0.38	mg/kg dry	1.92	0.15 U	137	30-124	7	35	J-02
Acenaphthene	1.7		0.38	mg/kg dry	1.92	0.15 U	89	49-111	3	27	
N-Nitroso-di-n-propylamine	2.2		0.38	mg/kg dry	1.92	0.17 U	113	52-126	3	24	
Pentachlorophenol	1.5		0.38	mg/kg dry	1.92	0.24 U	77	10-101	7	26	
Phenol	2.0		0.38	mg/kg dry	1.92	0.11 U	104	28-121	4	32	
Pyrene	2.3		0.38	mg/kg dry	1.92	0.13 U	117	66-115	3	28	J-02
2,4,6-Tribromophenol	1.7			mg/kg dry	1.92		90	23-137			
2-Fluorobiphenyl	1.5			mg/kg dry	1.92		77	29-119			
2-Fluorophenol	1.8			mg/kg dry	1.92		94	20-124			
Nitrobenzene-d5	1.9			mg/kg dry	1.92		101	17-126			

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22002 - EPA 3550C_MS - Continued

Matrix Spike Dup (4L22002-MSD1) Continued

Prepared: 12/22/2014 08:35 Analyzed: 12/24/2014 18:34

Source: A407258-02

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Phenol-d5	2.0			mg/kg dry	1.92		104	15-131			
Terphenyl-d14	2.0			mg/kg dry	1.92		104	60-120			

Batch 4L22009 - EPA 3510C_MS

Blank (4L22009-BLK1)

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 15:54

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	3.3	U	10	ug/L							
1,2-Dichlorobenzene	3.2	U	10	ug/L							
1,3-Dichlorobenzene	3.4	U	10	ug/L							
1,4-Dichlorobenzene	3.2	U	10	ug/L							
1-Methylnaphthalene	3.1	U	10	ug/L							
2,4,5-Trichlorophenol	3.9	U	10	ug/L							
2,4,6-Trichlorophenol	6.4	U	10	ug/L							
2,4-Dichlorophenol	6.5	U	10	ug/L							
2,4-Dimethylphenol	6.4	U	10	ug/L							
2,4-Dinitrophenol	7.7	U	10	ug/L							
2,4-Dinitrotoluene	3.2	U	10	ug/L							
2,6-Dinitrotoluene	2.9	U	10	ug/L							
2-Chloronaphthalene	3.2	U	10	ug/L							
2-Chlorophenol	7.4	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	6.0	U	10	ug/L							
2-Methylnaphthalene	3.8	U	10	ug/L							
2-Methylphenol	3.5	U	10	ug/L							
2-Nitroaniline	3.3	U	10	ug/L							
2-Nitrophenol	5.2	U	10	ug/L							
3 & 4-Methylphenol	8.2	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	3.3	U	10	ug/L							
4-Bromophenyl-phenylether	3.3	U	10	ug/L							
4-Chloro-3-methylphenol	7.3	U	10	ug/L							
4-Chloroaniline	4.3	U	10	ug/L							
4-Chlorophenyl-phenylether	3.2	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	7.9	U	10	ug/L							
Acenaphthene	3.0	U	10	ug/L							
Acenaphthylene	3.3	U	10	ug/L							
Anthracene	3.0	U	10	ug/L							
Benzidine	7.1	U	10	ug/L							
Benzo(a)anthracene	3.2	U	10	ug/L							
Benzo(a)pyrene	3.1	U	10	ug/L							
Benzo(b)fluoranthene	3.4	U	10	ug/L							
Benzo(g,h,i)perylene	3.7	U	10	ug/L							
Benzo(k)fluoranthene	3.3	U	10	ug/L							
Benzoic acid	15	U	50	ug/L							
Benzyl alcohol	3.9	U	10	ug/L							
Bis(2-chloroethoxy)methane	3.3	U	10	ug/L							
Bis(2-chloroethyl)ether	3.8	U	10	ug/L							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22009 - EPA 3510C_MS - Continued

Blank (4L22009-BLK1) Continued

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 15:54

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Bis(2-chloroisopropyl)ether	3.5	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	3.5	U	5.0	ug/L							
Butylbenzylphthalate	5.1	U	10	ug/L							
Chrysene	3.0	U	10	ug/L							
Dibenzo(a,h)anthracene	3.8	U	10	ug/L							
Dibenzofuran	2.8	U	10	ug/L							
Diethylphthalate	3.0	U	10	ug/L							
Dimethylphthalate	3.0	U	10	ug/L							
Di-n-butylphthalate	3.2	U	10	ug/L							
Di-n-octylphthalate	3.6	U	10	ug/L							
Fluoranthene	4.0	U	10	ug/L							
Fluorene	2.9	U	10	ug/L							
Hexachlorobenzene	3.0	U	10	ug/L							
Hexachlorobutadiene	4.1	U	10	ug/L							
Hexachlorocyclopentadiene	3.8	U	10	ug/L							
Hexachloroethane	3.0	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	4.1	U	10	ug/L							
Isophorone	4.5	U	10	ug/L							
Naphthalene	3.6	U	10	ug/L							
Nitrobenzene	3.2	U	10	ug/L							
N-Nitrosodimethylamine	3.8	U	10	ug/L							
N-Nitroso-di-n-propylamine	4.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	5.4	U	10	ug/L							
Pentachlorophenol	8.2	U	10	ug/L							
Phenanthrene	2.8	U	10	ug/L							
Phenol	5.6	U	10	ug/L							
Pyrene	4.1	U	10	ug/L							
Pyridine	3.5	U	10	ug/L							
<hr/>											
<i>2,4,6-Tribromophenol</i>	<i>30</i>			<i>ug/L</i>	<i>50.0</i>		<i>60</i>	<i>47-128</i>			
<i>2-Fluorobiphenyl</i>	<i>36</i>			<i>ug/L</i>	<i>50.0</i>		<i>72</i>	<i>44-102</i>			
<i>2-Fluorophenol</i>	<i>27</i>			<i>ug/L</i>	<i>50.0</i>		<i>54</i>	<i>25-79</i>			
<i>Nitrobenzene-d5</i>	<i>49</i>			<i>ug/L</i>	<i>50.0</i>		<i>97</i>	<i>43-112</i>			
<i>Phenol-d5</i>	<i>20</i>			<i>ug/L</i>	<i>50.0</i>		<i>40</i>	<i>14-54</i>			
<i>Terphenyl-d14</i>	<i>50</i>			<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>65-122</i>			

LCS (4L22009-BS1)

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 18:15

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1,2,4-Trichlorobenzene	28		10	ug/L	50.0		56	20-95			
1,4-Dichlorobenzene	24		10	ug/L	50.0		49	17-94			
2,4-Dinitrotoluene	55		10	ug/L	50.0		110	63-120			
2-Chlorophenol	41		10	ug/L	50.0		83	50-97			
4-Chloro-3-methylphenol	47		10	ug/L	50.0		94	54-108			
4-Nitrophenol	26		10	ug/L	50.0		52	10-79			
Acenaphthene	36		10	ug/L	50.0		72	50-95			
N-Nitroso-di-n-propylamine	53		10	ug/L	50.0		106	53-124			
Pentachlorophenol	18		10	ug/L	50.0		36	27-100			
Phenol	23		10	ug/L	50.0		46	14-54			
Pyrene	58		10	ug/L	50.0		116	61-115			

QL-02

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4L22009 - EPA 3510C_MS - Continued

LCS (4L22009-BS1) Continued

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 18:15

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,6-Tribromophenol	35			ug/L	50.0		69	47-128			
2-Fluorobiphenyl	33			ug/L	50.0		66	44-102			
2-Fluorophenol	29			ug/L	50.0		58	25-79			
Nitrobenzene-d5	47			ug/L	50.0		95	43-112			
Phenol-d5	21			ug/L	50.0		42	14-54			
Terphenyl-d14	51			ug/L	50.0		102	65-122			

Matrix Spike (4L22009-MS1)

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 18:43

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	33		10	ug/L	50.0	3.3 U	65	20-95			
1,4-Dichlorobenzene	28		10	ug/L	50.0	3.2 U	57	17-94			
2,4-Dinitrotoluene	62		10	ug/L	50.0	3.2 U	123	63-120			QM-07
2-Chlorophenol	50		10	ug/L	50.0	7.4 U	99	50-97			QM-07
4-Chloro-3-methylphenol	56		10	ug/L	50.0	7.3 U	113	54-108			QM-07
4-Nitrophenol	30		10	ug/L	50.0	7.9 U	61	10-79			
Acenaphthene	43		10	ug/L	50.0	3.0 U	86	50-95			
N-Nitroso-di-n-propylamine	63		10	ug/L	50.0	4.5 U	126	53-124			QM-07
Pentachlorophenol	23		10	ug/L	50.0	8.2 U	47	27-100			
Phenol	28		10	ug/L	50.0	5.6 U	57	14-54			QM-07
Pyrene	62		10	ug/L	50.0	4.1 U	125	61-115			J-02
2,4,6-Tribromophenol	41			ug/L	50.0		83	47-128			
2-Fluorobiphenyl	41			ug/L	50.0		81	44-102			
2-Fluorophenol	35			ug/L	50.0		71	25-79			
Nitrobenzene-d5	57			ug/L	50.0		114	43-112			QS-03
Phenol-d5	26			ug/L	50.0		52	14-54			
Terphenyl-d14	56			ug/L	50.0		111	65-122			

Matrix Spike Dup (4L22009-MSD1)

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 19:11

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	35		10	ug/L	50.0	3.3 U	70	20-95	8	32	
1,4-Dichlorobenzene	31		10	ug/L	50.0	3.2 U	62	17-94	9	34	
2,4-Dinitrotoluene	67		10	ug/L	50.0	3.2 U	134	63-120	8	23	QM-07
2-Chlorophenol	54		10	ug/L	50.0	7.4 U	107	50-97	8	27	QM-07
4-Chloro-3-methylphenol	64		10	ug/L	50.0	7.3 U	129	54-108	13	28	QM-07
4-Nitrophenol	35		10	ug/L	50.0	7.9 U	70	10-79	14	35	
Acenaphthene	48		10	ug/L	50.0	3.0 U	95	50-95	10	27	
N-Nitroso-di-n-propylamine	72		10	ug/L	50.0	4.5 U	143	53-124	13	24	QM-07
Pentachlorophenol	30		10	ug/L	50.0	8.2 U	60	27-100	24	26	
Phenol	31		10	ug/L	50.0	5.6 U	62	14-54	9	32	QM-07
Pyrene	66		10	ug/L	50.0	4.1 U	133	61-115	6	28	J-02
2,4,6-Tribromophenol	49			ug/L	50.0		98	47-128			
2-Fluorobiphenyl	45			ug/L	50.0		90	44-102			
2-Fluorophenol	39			ug/L	50.0		78	25-79			
Nitrobenzene-d5	62			ug/L	50.0		123	43-112			QS-03
Phenol-d5	29			ug/L	50.0		58	14-54			QS-03
Terphenyl-d14	60			ug/L	50.0		119	65-122			

QUALITY CONTROL DATA

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 4L22009 - EPA 3510C_MS

Blank (4L22009-BLK1)

Prepared: 12/22/2014 10:14 Analyzed: 12/26/2014 15:54

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Tentatively Identified Compounds	0.0			ug/L							

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 4L22040 - EPA 3550C_MS

Blank (4L22040-BLK2)

Prepared: 12/22/2014 14:30 Analyzed: 12/26/2014 16:07

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
1-Methylnaphthalene	0.019	U	0.035	mg/kg wet							
2-Methylnaphthalene	0.018	U	0.035	mg/kg wet							
Acenaphthene	0.015	U	0.035	mg/kg wet							
Acenaphthylene	0.018	U	0.035	mg/kg wet							
Anthracene	0.014	U	0.035	mg/kg wet							
Benzo(a)anthracene	0.014	U	0.035	mg/kg wet							
Benzo(a)pyrene	0.015	U	0.035	mg/kg wet							
Benzo(b)fluoranthene	0.017	U	0.035	mg/kg wet							
Benzo(g,h,i)perylene	0.015	U	0.035	mg/kg wet							
Benzo(k)fluoranthene	0.019	U	0.035	mg/kg wet							
Chrysene	0.012	U	0.035	mg/kg wet							
Dibenzo(a,h)anthracene	0.016	U	0.035	mg/kg wet							
Fluoranthene	0.017	U	0.035	mg/kg wet							
Fluorene	0.017	U	0.035	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.015	U	0.035	mg/kg wet							
Naphthalene	0.018	U	0.035	mg/kg wet							
Phenanthrene	0.015	U	0.035	mg/kg wet							
Pyrene	0.016	U	0.035	mg/kg wet							
<i>p</i> -Terphenyl	2.7			mg/kg wet	2.00		137	50-150			

LCS (4L22040-BS1)

Prepared: 12/22/2014 14:30 Analyzed: 12/24/2014 15:25

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Acenaphthene	1.5		0.035	mg/kg wet	2.00		77	39-106			
Benzo(a)pyrene	1.6		0.035	mg/kg wet	2.00		79	60-118			

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 4L22040 - EPA 3550C_MS - Continued

LCS (4L22040-BS1) Continued

Prepared: 12/22/2014 14:30 Analyzed: 12/24/2014 15:25

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzo(g,h,i)perylene	1.8		0.035	mg/kg wet	2.00		90	50-117			
Naphthalene	1.7		0.035	mg/kg wet	2.00		84	34-95			
<i>p</i> -Terphenyl	2.2			mg/kg wet	2.00		109	50-150			

Matrix Spike (4L22040-MS1)

Prepared: 12/22/2014 14:30 Analyzed: 12/24/2014 15:47

Source: A407146-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	4.1		0.047	mg/kg dry	2.68	1.3	104	39-106			
Benzo(a)pyrene	2.4		0.047	mg/kg dry	2.68	0.020 U	89	60-118			
Benzo(g,h,i)perylene	2.4		0.047	mg/kg dry	2.68	0.020 U	91	50-117			
Naphthalene	2.2		0.047	mg/kg dry	2.68	0.20	74	34-95			
<i>p</i> -Terphenyl	2.7			mg/kg dry	2.68		99	50-150			

Matrix Spike Dup (4L22040-MSD1)

Prepared: 12/22/2014 14:30 Analyzed: 12/24/2014 16:08

Source: A407146-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	3.0		0.047	mg/kg dry	2.70	1.3	61	39-106	32	30	QM-07
Benzo(a)pyrene	2.2		0.047	mg/kg dry	2.70	0.020 U	82	60-118	7	30	
Benzo(g,h,i)perylene	2.3		0.047	mg/kg dry	2.70	0.020 U	84	50-117	8	30	
Naphthalene	2.1		0.047	mg/kg dry	2.70	0.20	72	34-95	2	30	
<i>p</i> -Terphenyl	2.6			mg/kg dry	2.70		95	50-150			

Batch 4L22063 - EPA 3511_MS

Blank (4L22063-BLK1)

Prepared: 12/22/2014 16:57 Analyzed: 12/26/2014 23:40

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1-Methylnaphthalene	0.047	U	0.10	ug/L							
2-Methylnaphthalene	0.044	U	0.10	ug/L							
Acenaphthene	0.037	U	0.10	ug/L							
Acenaphthylene	0.036	U	0.10	ug/L							
Anthracene	0.036	U	0.10	ug/L							
Benzo(a)anthracene	0.037	U	0.10	ug/L							
Benzo(a)pyrene	0.043	U	0.10	ug/L							
Benzo(b)fluoranthene	0.059	U	0.10	ug/L							
Benzo(g,h,i)perylene	0.040	U	0.10	ug/L							
Benzo(k)fluoranthene	0.046	U	0.10	ug/L							
Chrysene	0.051	U	0.10	ug/L							
Dibenzo(a,h)anthracene	0.026	U	0.10	ug/L							
Fluoranthene	0.051	U	0.10	ug/L							
Fluorene	0.038	U	0.10	ug/L							
Indeno(1,2,3-cd)pyrene	0.037	U	0.10	ug/L							
Naphthalene	0.035	U	0.10	ug/L							
Phenanthrene	0.039	U	0.10	ug/L							
Pyrene	0.048	U	0.10	ug/L							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 4L22063 - EPA 3511_MS - Continued

Blank (4L22063-BLK1) Continued

Prepared: 12/22/2014 16:57 Analyzed: 12/26/2014 23:40

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<i>p</i> -Terphenyl	7.3			ug/L	5.71		128	66-136			

LCS (4L22063-BS1)

Prepared: 12/22/2014 16:57 Analyzed: 12/27/2014 00:02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.6		0.10	ug/L	5.71		97	80-120			
Benzo(a)pyrene	7.0		0.10	ug/L	5.71		123	73-149			
Benzo(g,h,i)perylene	6.7		0.10	ug/L	5.71		118	57-124			
Naphthalene	5.5		0.10	ug/L	5.71		96	68-120			
<i>p</i> -Terphenyl	7.7			ug/L	5.71		134	66-136			

Matrix Spike (4L22063-MS1)

Prepared: 12/22/2014 16:57 Analyzed: 12/27/2014 00:24

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.6		0.10	ug/L	5.71	0.037 U	98	80-120			
Benzo(a)pyrene	7.1		0.10	ug/L	5.71	0.043 U	124	73-149			
Benzo(g,h,i)perylene	6.4		0.10	ug/L	5.71	0.040 U	112	57-124			
Naphthalene	5.3		0.10	ug/L	5.71	0.035 U	93	68-120			
<i>p</i> -Terphenyl	7.7			ug/L	5.71		136	66-136			

Matrix Spike Dup (4L22063-MSD1)

Prepared: 12/22/2014 16:57 Analyzed: 12/27/2014 00:45

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acenaphthene	5.8		0.10	ug/L	5.71	0.037 U	102	80-120	4	25	
Benzo(a)pyrene	7.3		0.10	ug/L	5.71	0.043 U	129	73-149	3	25	
Benzo(g,h,i)perylene	6.8		0.10	ug/L	5.71	0.040 U	120	57-124	6	25	
Naphthalene	5.8		0.10	ug/L	5.71	0.035 U	102	68-120	9	25	
<i>p</i> -Terphenyl	8.4			ug/L	5.71		146	66-136			QS-03

Organochlorine Pesticides by GC - Quality Control

Batch 4L22010 - EPA 3510C

Blank (4L22010-BLK1)

Prepared: 12/22/2014 13:48 Analyzed: 12/29/2014 10:58

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.018	U	0.050	ug/L							
4,4'-DDE	0.036	U	0.050	ug/L							
4,4'-DDT	0.025	U	0.050	ug/L							
Aldrin	0.032	U	0.050	ug/L							
alpha-BHC	0.026	U	0.050	ug/L							
beta-BHC	0.022	U	0.050	ug/L							
Chlordane (tech)	0.32	U	0.50	ug/L							
Chlordane-alpha	0.022	U	0.050	ug/L							
Chlordane-gamma	0.018	U	0.050	ug/L							
delta-BHC	0.019	U	0.050	ug/L							
Dieldrin	0.017	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							

QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 4L22010 - EPA 3510C - Continued

Blank (4L22010-BLK1) Continued

Prepared: 12/22/2014 13:48 Analyzed: 12/29/2014 10:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Endosulfan II	0.017	U	0.050	ug/L							
Endosulfan sulfate	0.016	U	0.050	ug/L							
Endrin	0.014	U	0.050	ug/L							
Endrin aldehyde	0.020	U	0.050	ug/L							
Endrin ketone	0.017	U	0.050	ug/L							
gamma-BHC	0.020	U	0.050	ug/L							
Heptachlor	0.018	U	0.050	ug/L							
Heptachlor epoxide	0.018	U	0.050	ug/L							
Isodrin	0.030	U	0.050	ug/L							
Methoxychlor	0.018	U	0.050	ug/L							
Mirex	0.034	U	0.050	ug/L							
Toxaphene	0.48	U	0.50	ug/L							
<hr/>											
2,4,5,6-TCMX	0.46			ug/L	1.00		46	38-142			
Decachlorobiphenyl	0.67			ug/L	1.00		67	34-159			

LCS (4L22010-BS1)

Prepared: 12/22/2014 13:48 Analyzed: 12/29/2014 11:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.0		0.050	ug/L	1.00		103	37-125			
Dieldrin	0.68		0.050	ug/L	1.00		68	46-127			
Endrin	0.70		0.050	ug/L	1.00		70	28-143			
<hr/>											
2,4,5,6-TCMX	0.53			ug/L	1.00		53	38-142			
Decachlorobiphenyl	0.73			ug/L	1.00		73	34-159			

Matrix Spike (4L22010-MS1)

Prepared: 12/22/2014 13:48 Analyzed: 12/29/2014 11:22

Source: A407522-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.2		0.050	ug/L	1.00	0.025 U	116	37-125			
Dieldrin	0.95		0.050	ug/L	1.00	0.017 U	95	46-127			
Endrin	1.0		0.050	ug/L	1.00	0.014 U	100	28-143			
<hr/>											
2,4,5,6-TCMX	0.69			ug/L	1.00		69	38-142			
Decachlorobiphenyl	1.1			ug/L	1.00		110	34-159			

Matrix Spike Dup (4L22010-MSD1)

Prepared: 12/22/2014 13:48 Analyzed: 12/29/2014 11:33

Source: A407522-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.86		0.050	ug/L	1.00	0.025 U	86	37-125	30	24	QM-11
Dieldrin	0.49		0.050	ug/L	1.00	0.017 U	49	46-127	63	21	QM-11
Endrin	0.50		0.050	ug/L	1.00	0.014 U	50	28-143	66	22	QM-11
<hr/>											
2,4,5,6-TCMX [2C]	0.38			ug/L	1.00		38	38-142			
Decachlorobiphenyl	0.62			ug/L	1.00		62	34-159			

Batch 4L23006 - EPA 3550C

Blank (4L23006-BLK1)

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 4L23006 - EPA 3550C - Continued

Blank (4L23006-BLK1) Continued

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:07

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
4,4'-DDD	0.00048	U	0.0017	mg/kg wet							
4,4'-DDE	0.00052	U	0.0017	mg/kg wet							
4,4'-DDT	0.00066	U	0.0017	mg/kg wet							
Aldrin	0.00051	U	0.0017	mg/kg wet							
alpha-BHC	0.00056	U	0.0017	mg/kg wet							
beta-BHC	0.0010	U	0.0017	mg/kg wet							
Chlordane (tech)	0.0084	U	0.033	mg/kg wet							
Chlordane-alpha	0.00045	U	0.0017	mg/kg wet							
Chlordane-gamma	0.00045	U	0.0017	mg/kg wet							
delta-BHC	0.00050	U	0.0017	mg/kg wet							
Dieldrin	0.00045	U	0.0017	mg/kg wet							
Endosulfan I	0.00039	U	0.0017	mg/kg wet							
Endosulfan II	0.00048	U	0.0017	mg/kg wet							
Endosulfan sulfate	0.00049	U	0.0017	mg/kg wet							
Endrin	0.00074	U	0.0017	mg/kg wet							
Endrin aldehyde	0.00083	U	0.0017	mg/kg wet							
Endrin ketone	0.00047	U	0.0017	mg/kg wet							
gamma-BHC	0.00060	U	0.0017	mg/kg wet							
Heptachlor	0.00062	U	0.0017	mg/kg wet							
Heptachlor epoxide	0.00048	U	0.0017	mg/kg wet							
Isodrin	0.00062	U	0.0017	mg/kg wet							
Methoxychlor	0.00086	U	0.0017	mg/kg wet							
Mirex	0.0011	U	0.0017	mg/kg wet							
Toxaphene	0.017	U	0.033	mg/kg wet							
<hr/>											
<i>2,4,5,6-TCMX</i>	<i>0.018</i>			<i>mg/kg wet</i>	<i>0.0333</i>		<i>55</i>	<i>20-137</i>			
<i>Decachlorobiphenyl</i>	<i>0.022</i>			<i>mg/kg wet</i>	<i>0.0333</i>		<i>65</i>	<i>13-183</i>			

LCS (4L23006-BS1)

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:18

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
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QUALITY CONTROL DATA
Organochlorine Pesticides by GC - Quality Control
Batch 4L23006 - EPA 3550C - Continued
LCS (4L23006-BS1) Continued

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:18

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.029		0.0017	mg/kg wet	0.0333		86	37-125			
Dieldrin	0.017		0.0017	mg/kg wet	0.0333		52	46-127			
Endrin	0.017		0.0017	mg/kg wet	0.0333		51	28-143			
2,4,5,6-TCMX	0.022			mg/kg wet	0.0333		65	20-137			
Decachlorobiphenyl	0.022			mg/kg wet	0.0333		65	13-183			

Matrix Spike (4L23006-MS1)

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:30

Source: A407493-03

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.014		0.0039	mg/kg dry	0.0376	0.0015 U	36	37-125			QM-07
Dieldrin	0.014		0.0039	mg/kg dry	0.0376	0.0010 U	36	46-127			QM-07
Endrin	0.014		0.0039	mg/kg dry	0.0376	0.0017 U	37	28-143			
2,4,5,6-TCMX	0.012			mg/kg dry	0.0376		31	20-137			
Decachlorobiphenyl	0.019			mg/kg dry	0.0376		51	13-183			

Matrix Spike Dup (4L23006-MSD1)

Prepared: 12/23/2014 08:25 Analyzed: 12/29/2014 12:41

Source: A407493-03

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.020		0.0039	mg/kg dry	0.0382	0.0015 U	52	37-125	38	24	QM-11
Dieldrin	0.021		0.0039	mg/kg dry	0.0382	0.0010 U	55	46-127	44	21	QM-11
Endrin	0.021		0.0039	mg/kg dry	0.0382	0.0017 U	54	28-143	41	22	QM-11
2,4,5,6-TCMX	0.017			mg/kg dry	0.0382		46	20-137			
Decachlorobiphenyl	0.027			mg/kg dry	0.0382		70	13-183			

Polychlorinated Biphenyls by GC - Quality Control
Batch 4L22029 - EPA 3510C
Blank (4L22029-BLK1)

Prepared: 12/22/2014 13:48 Analyzed: 12/26/2014 12:35

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.49	U	0.50	ug/L							
PCB-1221	0.46	U	0.50	ug/L							
PCB-1232	0.47	U	0.50	ug/L							
PCB-1248	0.49	U	0.50	ug/L							
PCB-1254	0.50	U	0.50	ug/L							
PCB-1260	0.48	U	0.50	ug/L							
2,4,5,6-TCMX	0.50			ug/L	1.00		50	38-142			
Decachlorobiphenyl	1.0			ug/L	1.00		102	34-159			

LCS (4L22029-BS1)

Prepared: 12/22/2014 13:48 Analyzed: 12/26/2014 12:47

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	8.9		0.50	ug/L	10.0		89	11-162			

QUALITY CONTROL DATA

Polychlorinated Biphenyls by GC - Quality Control

Batch 4L22029 - EPA 3510C - Continued

LCS (4L22029-BS1) Continued

Prepared: 12/22/2014 13:48 Analyzed: 12/26/2014 12:47

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1260	9.8		0.50	ug/L	10.0		98	10-166			
<i>2,4,5,6-TCMX</i>	<i>0.60</i>			<i>ug/L</i>	<i>1.00</i>		<i>60</i>	<i>38-142</i>			
<i>Decachlorobiphenyl</i>	<i>1.2</i>			<i>ug/L</i>	<i>1.00</i>		<i>115</i>	<i>34-159</i>			

Matrix Spike (4L22029-MS1)

Prepared: 12/22/2014 13:48 Analyzed: 12/26/2014 12:58

Source: A407522-01

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	8.9		0.50	ug/L	10.0	0.49 U	89	11-162			
PCB-1260	9.7		0.50	ug/L	10.0	0.48 U	97	10-166			
<i>2,4,5,6-TCMX</i>	<i>0.67</i>			<i>ug/L</i>	<i>1.00</i>		<i>67</i>	<i>38-142</i>			
<i>Decachlorobiphenyl</i>	<i>1.1</i>			<i>ug/L</i>	<i>1.00</i>		<i>110</i>	<i>34-159</i>			

Matrix Spike Dup (4L22029-MSD1)

Prepared: 12/22/2014 13:48 Analyzed: 12/26/2014 13:10

Source: A407522-01

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	9.1		0.50	ug/L	10.0	0.49 U	91	11-162	3	23	
PCB-1260	11		0.50	ug/L	10.0	0.48 U	107	10-166	10	13	
<i>2,4,5,6-TCMX</i>	<i>0.51</i>			<i>ug/L</i>	<i>1.00</i>		<i>51</i>	<i>38-142</i>			
<i>Decachlorobiphenyl</i>	<i>1.2</i>			<i>ug/L</i>	<i>1.00</i>		<i>116</i>	<i>34-159</i>			

Batch 4L23023 - EPA 3550C

Blank (4L23023-BLK1)

Prepared: 12/23/2014 11:31 Analyzed: 12/26/2014 14:06

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	0.014	U	0.017	mg/kg wet							
PCB-1221	0.014	U	0.017	mg/kg wet							
PCB-1232	0.014	U	0.017	mg/kg wet							
PCB-1248	0.0063	U	0.017	mg/kg wet							
PCB-1254	0.016	U	0.017	mg/kg wet							
PCB-1260	0.011	U	0.017	mg/kg wet							
<i>2,4,5,6-TCMX [2C]</i>	<i>0.034</i>			<i>mg/kg wet</i>	<i>0.0333</i>		<i>101</i>	<i>20-137</i>			
<i>Decachlorobiphenyl</i>	<i>0.044</i>			<i>mg/kg wet</i>	<i>0.0333</i>		<i>133</i>	<i>13-183</i>			

LCS (4L23023-BS1)

Prepared: 12/23/2014 11:31 Analyzed: 12/26/2014 14:18

<u>Analyte</u>	<u>Result</u>	<u>Flaq</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	0.37		0.017	mg/kg wet	0.333		111	29-185			
PCB-1260	0.38		0.017	mg/kg wet	0.333		113	66-171			

QUALITY CONTROL DATA

Polychlorinated Biphenyls by GC - Quality Control

Batch 4L23023 - EPA 3550C - Continued

LCS (4L23023-BS1) Continued

Prepared: 12/23/2014 11:31 Analyzed: 12/26/2014 14:18

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5,6-TCMX [2C]	0.040			mg/kg wet	0.0333		119	20-137			
Decachlorobiphenyl	0.044			mg/kg wet	0.0333		133	13-183			

Matrix Spike (4L23023-MS1)

Prepared: 12/23/2014 11:31 Analyzed: 12/26/2014 14:29

Source: A407577-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	0.32		0.018	mg/kg dry	0.351	0.015 U	91	29-185			
PCB-1260	0.35		0.018	mg/kg dry	0.351	0.012	96	66-171			
2,4,5,6-TCMX [2C]	0.031			mg/kg dry	0.0351		90	20-137			
Decachlorobiphenyl	0.046			mg/kg dry	0.0351		132	13-183			

Matrix Spike Dup (4L23023-MSD1)

Prepared: 12/23/2014 11:31 Analyzed: 12/26/2014 14:41

Source: A407577-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
PCB-1016/1242	0.33		0.018	mg/kg dry	0.358	0.015 U	93	29-185	4	21	
PCB-1260	0.36		0.018	mg/kg dry	0.358	0.012	97	66-171	3	17	
2,4,5,6-TCMX [2C]	0.035			mg/kg dry	0.0358		98	20-137			
Decachlorobiphenyl	0.051			mg/kg dry	0.0358		142	13-183			

Chlorinated Herbicides by GC - Quality Control

Batch 4L22067 - EPA 3510C

Blank (4L22067-BLK1)

Prepared: 12/22/2014 21:00 Analyzed: 12/29/2014 15:27

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
2,4-DB	0.35	U	0.50	ug/L							
3,5-DCBA	0.36	U	0.50	ug/L							
4-Nitrophenol	0.32	U	0.50	ug/L							
Acifluorfen	0.45	U	0.50	ug/L							
Bentazon	0.22	U	0.50	ug/L							J-05
Chloramben	0.43	U	0.50	ug/L							
Dacthal	0.23	U	0.50	ug/L							
Dalapon	0.49	U	0.50	ug/L							
Dicamba	0.19	U	0.50	ug/L							
Dichlorprop	0.28	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
MCPA	34	U	50	ug/L							
MCPP	46	U	50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Picloram	0.23	U	0.50	ug/L							
2,4-DCAA	2.4			ug/L	2.00		122	68-139			

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L22067 - EPA 3510C - Continued

LCS (4L22067-BS1)

Prepared: 12/22/2014 21:00 Analyzed: 12/29/2014 15:53

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	1.7		0.50	ug/L	2.00		86	70-114			
2,4-D	1.6		0.50	ug/L	2.00		80	37-129			
2,4-DB	1.6		0.50	ug/L	2.00		82	49-144			
Bentazon	1.1		0.50	ug/L	2.00		53	37-141			
Dalapon	0.70		0.50	ug/L	2.00		35	18-121			
Dicamba	1.7		0.50	ug/L	2.00		86	36-143			
Picloram	1.3		0.50	ug/L	2.00		64	36-127			
2,4-DCAA	2.4			ug/L	2.00		120	68-139			

Matrix Spike (4L22067-MS1)

Prepared: 12/22/2014 21:00 Analyzed: 12/29/2014 16:19

Source: A407522-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	1.4		0.50	ug/L	2.00	0.44 U	69	70-114			QM-07
2,4-D	1.3		0.50	ug/L	2.00	0.27 U	64	37-129			
2,4-DB	1.3		0.50	ug/L	2.00	0.35 U	64	49-144			
Bentazon	0.81		0.50	ug/L	2.00	0.22 U	41	37-141			
Dalapon	1.1		0.50	ug/L	2.00	0.49 U	57	18-121			
Dicamba	1.3		0.50	ug/L	2.00	0.19 U	67	36-143			
Picloram	0.80		0.50	ug/L	2.00	0.23 U	40	36-127			
2,4-DCAA	2.1			ug/L	2.00		106	68-139			

Matrix Spike Dup (4L22067-MSD1)

Prepared: 12/22/2014 21:00 Analyzed: 12/29/2014 16:45

Source: A407522-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	1.2		0.50	ug/L	2.00	0.44 U	59	70-114	15	15	QM-07
2,4-D	1.1		0.50	ug/L	2.00	0.27 U	55	37-129	16	33	
2,4-DB	1.2		0.50	ug/L	2.00	0.35 U	61	49-144	3	36	
Bentazon	0.83		0.50	ug/L	2.00	0.22 U	41	37-141	2	22	
Dalapon	1.3		0.50	ug/L	2.00	0.49 U	67	18-121	16	49	
Dicamba	1.2		0.50	ug/L	2.00	0.19 U	59	36-143	13	24	
Picloram	0.83		0.50	ug/L	2.00	0.23 U	42	36-127	4	16	
2,4-DCAA	1.4			ug/L	2.00		72	68-139			

Batch 4L24014 - EPA 3550C

Blank (4L24014-BLK1)

Prepared: 12/24/2014 11:01 Analyzed: 12/29/2014 18:56

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-T	0.0025	U	0.010	mg/kg wet							
2,4,5-TP (Silvex)	0.0047	U	0.010	mg/kg wet							
2,4-D	0.0099	U	0.010	mg/kg wet							
2,4-DB	0.0049	U	0.010	mg/kg wet							
3,5-DCBA	0.0022	U	0.010	mg/kg wet							
4-Nitrophenol	0.0065	U	0.010	mg/kg wet							

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L24014 - EPA 3550C - Continued

Blank (4L24014-BLK1) Continued

Prepared: 12/24/2014 11:01 Analyzed: 12/29/2014 18:56

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Acifluorfen	0.0016	U	0.010	mg/kg wet							
Bentazon	0.0045	U	0.010	mg/kg wet							J-05
Chloramben	0.0039	U	0.010	mg/kg wet							
Dacthal	0.0024	U	0.010	mg/kg wet							
Dalapon	0.0050	U	0.010	mg/kg wet							
Dicamba	0.0023	U	0.010	mg/kg wet							
Dichlorprop	0.0028	U	0.010	mg/kg wet							
Dinoseb	0.0042	U	0.010	mg/kg wet							
MCPA	0.52	U	1.0	mg/kg wet							
MCPP	0.53	U	1.0	mg/kg wet							
Pentachlorophenol	0.0025	U	0.010	mg/kg wet							
Picloram	0.0018	U	0.010	mg/kg wet							
<i>2,4-DCAA</i>	<i>0.031</i>			<i>mg/kg wet</i>	<i>0.0400</i>		<i>77</i>	<i>39-174</i>			

LCS (4L24014-BS1)

Prepared: 12/24/2014 11:01 Analyzed: 12/29/2014 19:22

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	0.032		0.010	mg/kg wet	0.0400		79	45-135			
2,4-D	0.028		0.010	mg/kg wet	0.0400		71	35-121			
2,4-DB	0.034		0.010	mg/kg wet	0.0400		85	34-160			
Dalapon	0.042		0.010	mg/kg wet	0.0400		106	20-136			
Dicamba	0.034		0.010	mg/kg wet	0.0400		85	47-129			
Picloram	0.018		0.010	mg/kg wet	0.0400		44	33-106			
<i>2,4-DCAA</i>	<i>0.034</i>			<i>mg/kg wet</i>	<i>0.0400</i>		<i>85</i>	<i>39-174</i>			

LCS (4L24014-BS2)

Prepared: 12/24/2014 11:01 Analyzed: 01/05/2015 15:40

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4-DB	0.027		0.010	mg/kg wet	0.0400		67	34-160			
Bentazon	0.025		0.010	mg/kg wet	0.0400		61	61-100			

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L24014 - EPA 3550C - Continued

Matrix Spike (4L24014-MS1)

Prepared: 12/24/2014 11:01 Analyzed: 12/29/2014 19:48

Source: A407428-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.036		0.010	mg/kg dry	0.0417	0.0049 U	85	45-135			
2,4-D	0.031		0.010	mg/kg dry	0.0417	0.010 U	75	35-121			
2,4-DB	0.037		0.010	mg/kg dry	0.0417	0.0051 U	88	34-160			
Bentazon	0.024		0.010	mg/kg dry	0.0417	0.0046 U	58	61-100			QM-07
Dalapon	0.047		0.010	mg/kg dry	0.0417	0.0052 U	113	20-136			
Dicamba	0.039		0.010	mg/kg dry	0.0417	0.0024 U	94	47-129			
Picloram	0.021		0.010	mg/kg dry	0.0417	0.0019 U	50	33-106			
2,4-DCAA	0.040			mg/kg dry	0.0417		96	39-174			

Matrix Spike Dup (4L24014-MSD1)

Prepared: 12/24/2014 11:01 Analyzed: 12/29/2014 20:14

Source: A407428-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.031		0.010	mg/kg dry	0.0415	0.0049 U	76	45-135	12	23	
2,4-D	0.029		0.010	mg/kg dry	0.0415	0.010 U	71	35-121	6	43	
2,4-DB	0.043		0.010	mg/kg dry	0.0415	0.0051 U	104	34-160	15	47	
Bentazon	0.022		0.010	mg/kg dry	0.0415	0.0046 U	52	61-100	11	43	QM-07
Dalapon	0.041		0.010	mg/kg dry	0.0415	0.0052 U	98	20-136	15	50	
Dicamba	0.034		0.010	mg/kg dry	0.0415	0.0024 U	82	47-129	15	50	
Picloram	0.019		0.010	mg/kg dry	0.0415	0.0019 U	45	33-106	9	37	
2,4-DCAA	0.035			mg/kg dry	0.0415		85	39-174			

Batch 4L26015 - EPA 3550C

Blank (4L26015-BLK1)

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 10:43

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.0025	U	0.010	mg/kg wet							
2,4,5-TP (Silvex)	0.0047	U	0.010	mg/kg wet							
2,4-D	0.0099	U	0.010	mg/kg wet							
2,4-DB	0.0049	U	0.010	mg/kg wet							
3,5-DCBA	0.0022	U	0.010	mg/kg wet							
4-Nitrophenol	0.0065	U	0.010	mg/kg wet							
Acifluorfen	0.0016	U	0.010	mg/kg wet							
Bentazon	0.0045	U	0.010	mg/kg wet							J-05
Chloramben	0.0039	U	0.010	mg/kg wet							
Dacthal	0.0024	U	0.010	mg/kg wet							
Dalapon	0.0050	U	0.010	mg/kg wet							
Dicamba	0.0023	U	0.010	mg/kg wet							
Dichlorprop	0.0028	U	0.010	mg/kg wet							

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L26015 - EPA 3550C - Continued

Blank (4L26015-BLK1) Continued

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 10:43

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Dinoseb	0.0042	U	0.010	mg/kg wet							
MCPA	0.52	U	1.0	mg/kg wet							
MCPP	0.53	U	1.0	mg/kg wet							
Pentachlorophenol	0.0025	U	0.010	mg/kg wet							
Picloram	0.0018	U	0.010	mg/kg wet							
<i>2,4-DCAA</i>	<i>0.024</i>			<i>mg/kg wet</i>	<i>0.0400</i>		<i>61</i>	<i>39-174</i>			

LCS (4L26015-BS1)

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 11:39

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	0.025		0.010	mg/kg wet	0.0400		62	45-135			
2,4-D	0.021		0.010	mg/kg wet	0.0400		53	35-121			
2,4-DB	0.028		0.010	mg/kg wet	0.0400		71	34-160			
Dalapon	0.032		0.010	mg/kg wet	0.0400		79	20-136			
Dicamba	0.030		0.010	mg/kg wet	0.0400		75	47-129			
<i>2,4-DCAA</i>	<i>0.026</i>			<i>mg/kg wet</i>	<i>0.0400</i>		<i>66</i>	<i>39-174</i>			

LCS (4L26015-BS2)

Prepared: 12/26/2014 13:30 Analyzed: 01/05/2015 16:06

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4-DB	0.039		0.010	mg/kg wet	0.0400		98	34-160			
Bentazon	0.025		0.010	mg/kg wet	0.0400		62	61-100			
Dicamba	0.040		0.010	mg/kg wet	0.0400		100	47-129			
Picloram	0.018		0.010	mg/kg wet	0.0400		45	33-106			
<i>2,4-DCAA</i>	<i>0.033</i>			<i>mg/kg wet</i>	<i>0.0400</i>		<i>81</i>	<i>39-174</i>			

Matrix Spike (4L26015-MS1)

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 12:05

Source: A407553-09

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
2,4,5-TP (Silvex)	0.022		0.010	mg/kg dry	0.0414	0.0049 U	53	45-135			
2,4-D	0.020		0.010	mg/kg dry	0.0414	0.010 U	47	35-121			
2,4-DB	0.031		0.010	mg/kg dry	0.0414	0.0051 U	75	34-160			
Bentazon	0.014		0.010	mg/kg dry	0.0414	0.0047 U	33	61-100			QM-07
Dalapon	0.034		0.010	mg/kg dry	0.0414	0.0052 U	82	20-136			
Dicamba	0.022		0.010	mg/kg dry	0.0414	0.0024 U	54	47-129			
Picloram	0.012		0.010	mg/kg dry	0.0414	0.0019 U	30	33-106			QM-07

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L26015 - EPA 3550C - Continued

Matrix Spike (4L26015-MS1) Continued

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 12:05

Source: A407553-09

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-DCAA	0.026			mg/kg dry	0.0414		63	39-174			

Matrix Spike Dup (4L26015-MSD1)

Prepared: 12/26/2014 13:30 Analyzed: 12/30/2014 12:31

Source: A407553-09

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.022		0.010	mg/kg dry	0.0414	0.0049 U	54	45-135	0.6	23	
2,4-D	0.019		0.010	mg/kg dry	0.0414	0.010 U	46	35-121	3	43	
2,4-DB	0.026		0.010	mg/kg dry	0.0414	0.0051 U	63	34-160	17	47	
Bentazon	0.016		0.010	mg/kg dry	0.0414	0.0047 U	38	61-100	13	43	QM-07
Dalapon	0.037		0.010	mg/kg dry	0.0414	0.0052 U	89	20-136	8	50	
Dicamba	0.028		0.010	mg/kg dry	0.0414	0.0024 U	67	47-129	22	50	
Picloram	0.015		0.010	mg/kg dry	0.0414	0.0019 U	35	33-106	17	37	
2,4-DCAA	0.027			mg/kg dry	0.0414		66	39-174			

Batch 4L30037 - EPA 3510C

Blank (4L30037-BLK1)

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 19:18

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							QV-01
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
2,4-DB	0.35	U	0.50	ug/L							
3,5-DCBA	0.36	U	0.50	ug/L							
4-Nitrophenol	0.32	U	0.50	ug/L							
Acifluorfen	0.45	U	0.50	ug/L							
Bentazon	0.22	U	0.50	ug/L							
Chloramben	0.43	U	0.50	ug/L							
Dacthal	0.23	U	0.50	ug/L							
Dalapon	0.49	U	0.50	ug/L							
Dicamba	0.19	U	0.50	ug/L							
Dichlorprop	0.28	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
MCPA	34	U	50	ug/L							
MCPP	46	U	50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Picloram	0.23	U	0.50	ug/L							QV-01
2,4-DCAA [2C]	1.2			ug/L	2.00		59	68-139			QS-03

Blank (4L30037-BLK2)

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 19:44

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							QV-01
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
2,4-DB	0.35	U	0.50	ug/L							
3,5-DCBA	0.36	U	0.50	ug/L							
4-Nitrophenol	0.32	U	0.50	ug/L							

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L30037 - EPA 3510C - Continued

Blank (4L30037-BLK2) Continued

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 19:44

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acifluorfen	0.45	U	0.50	ug/L							
Bentazon	0.22	U	0.50	ug/L							
Chloramben	0.43	U	0.50	ug/L							
Dacthal	0.23	U	0.50	ug/L							
Dalapon	0.49	U	0.50	ug/L							
Dicamba	0.19	U	0.50	ug/L							
Dichlorprop	0.28	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
MCPA	34	U	50	ug/L							
MCPP	46	U	50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Picloram	0.23	U	0.50	ug/L							QV-01
2,4-DCAA	1.6			ug/L	2.00		78	68-139			

LCS (4L30037-BS1)

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 20:10

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00		89	70-114			
2,4-D	1.6		0.50	ug/L	2.00		80	37-129			
2,4-DB	2.7		0.50	ug/L	2.00		134	49-144			
Bentazon	1.1		0.50	ug/L	2.00		55	37-141			
Dalapon	1.1		0.50	ug/L	2.00		57	18-121			
Dicamba	1.5		0.50	ug/L	2.00		74	36-143			
Picloram	1.4		0.50	ug/L	2.00		72	36-127			J-04
2,4-DCAA	2.0			ug/L	2.00		98	68-139			

Matrix Spike (4L30037-MS1)

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 20:35

Source: A407635-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.7		0.50	ug/L	2.00	0.44 U	86	70-114			
2,4-D	1.4		0.50	ug/L	2.00	0.27 U	71	37-129			
2,4-DB	1.7		0.50	ug/L	2.00	0.35 U	83	49-144			
Bentazon	1.0		0.50	ug/L	2.00	0.22 U	52	37-141			
Dalapon	0.90		0.50	ug/L	2.00	0.49 U	45	18-121			
Dicamba	1.3		0.50	ug/L	2.00	0.19 U	67	36-143			
Picloram	1.3		0.50	ug/L	2.00	0.23 U	66	36-127			J-04
2,4-DCAA	1.7			ug/L	2.00		84	68-139			

Matrix Spike Dup (4L30037-MSD1)

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 21:01

Source: A407635-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00	0.44 U	103	70-114	17	15	QM-11
2,4-D	1.9		0.50	ug/L	2.00	0.27 U	97	37-129	31	33	
2,4-DB	1.8		0.50	ug/L	2.00	0.35 U	92	49-144	10	36	
Bentazon	1.4		0.50	ug/L	2.00	0.22 U	71	37-141	31	22	QM-11
Dalapon	1.4		0.50	ug/L	2.00	0.49 U	69	18-121	42	49	
Dicamba	1.7		0.50	ug/L	2.00	0.19 U	85	36-143	23	24	

QUALITY CONTROL DATA

Chlorinated Herbicides by GC - Quality Control

Batch 4L30037 - EPA 3510C - Continued

Matrix Spike Dup (4L30037-MSD1) Continued

Prepared: 12/30/2014 21:30 Analyzed: 01/12/2015 21:01

Source: A407635-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Picloram	1.5		0.50	ug/L	2.00	0.23 U	76	36-127	14	16	J-04
2,4-DCAA	1.7			ug/L	2.00		87	68-139			

FL Petroleum Range Organics - Quality Control

Batch 4L24001 - EPA 3510C

Blank (4L24001-BLK1)

Prepared: 12/24/2014 05:30 Analyzed: 12/26/2014 17:25

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	0.10	U	0.17	mg/L							
n-Nonatriacontane	0.095			mg/L	0.100		95	36-144			
o-Terphenyl	0.046			mg/L	0.0500		92	39-156			

LCS (4L24001-BS1)

Prepared: 12/24/2014 05:30 Analyzed: 12/26/2014 17:56

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.8		0.17	mg/L	1.70		104	40-140			
n-Nonatriacontane	0.085			mg/L	0.100		85	36-144			
o-Terphenyl	0.058			mg/L	0.0500		116	39-156			

Matrix Spike (4L24001-MS1)

Prepared: 12/24/2014 05:30 Analyzed: 12/26/2014 18:59

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.6		0.17	mg/L	1.70	0.10 U	96	40-140			
n-Nonatriacontane	0.072			mg/L	0.100		72	36-144			
o-Terphenyl	0.054			mg/L	0.0500		107	39-156			

Matrix Spike Dup (4L24001-MSD1)

Prepared: 12/24/2014 05:30 Analyzed: 12/26/2014 19:31

Source: A407522-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.4		0.17	mg/L	1.70	0.10 U	83	40-140	15	25	
n-Nonatriacontane	0.063			mg/L	0.100		63	36-144			
o-Terphenyl	0.046			mg/L	0.0500		92	39-156			

Batch 4L26002 - EPA 3550C

Blank (4L26002-BLK1)

Prepared: 12/26/2014 08:00 Analyzed: 12/29/2014 18:02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	3.4	U	5.7	mg/kg wet							
n-Nonatriacontane	2.9			mg/kg wet	3.33		87	41-129			
o-Terphenyl	1.5			mg/kg wet	1.67		93	45-135			

QUALITY CONTROL DATA

FL Petroleum Range Organics - Quality Control

Batch 4L26002 - EPA 3550C - Continued

LCS (4L26002-BS1)

Prepared: 12/26/2014 08:00 Analyzed: 12/29/2014 18:33

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	61		5.7	mg/kg wet	56.7		108	42-126			
<i>n</i> -Nonatriacontane	2.9			mg/kg wet	3.33		88	41-129			
<i>o</i> -Terphenyl	2.0			mg/kg wet	1.67		117	45-135			

Matrix Spike (4L26002-MS1)

Prepared: 12/26/2014 08:00 Analyzed: 12/29/2014 19:05

Source: A407269-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	58		6.6	mg/kg dry	64.5	15	66	42-126			
<i>n</i> -Nonatriacontane	2.2			mg/kg dry	3.79		58	41-129			
<i>o</i> -Terphenyl	1.9			mg/kg dry	1.90		102	45-135			

Matrix Spike Dup (4L26002-MSD1)

Prepared: 12/26/2014 08:00 Analyzed: 12/29/2014 19:36

Source: A407269-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	61		6.6	mg/kg dry	65.1	15	71	42-126	6	31	
<i>n</i> -Nonatriacontane	2.3			mg/kg dry	3.83		60	41-129			
<i>o</i> -Terphenyl	2.0			mg/kg dry	1.92		102	45-135			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4L18045 - EPA 7470A

Blank (4L18045-BLK1)

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 08:47

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0230	U	0.200	ug/L							

Blank (4L18045-BLK2)

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 08:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.230	U	2.00	ug/L							

LCS (4L18045-BS1)

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 08:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.09		0.200	ug/L	5.00		102	80-120			

Matrix Spike (4L18045-MS1)

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 09:06

Source: A407357-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.18		0.200	ug/L	5.00	0.0230 U	104	75-125			

Matrix Spike Dup (4L18045-MSD1)

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 09:09

Source: A407357-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4L18045 - EPA 7470A - Continued

Matrix Spike Dup (4L18045-MSD1) Continued

Prepared: 12/24/2014 10:33 Analyzed: 12/26/2014 09:09

Source: A407357-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.20		0.200	ug/L	5.00	0.0230 U	104	75-125	0.4	20	

Post Spike (4L18045-PS1)

Prepared: 12/26/2014 06:00 Analyzed: 12/26/2014 09:12

Source: A407357-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.45		0.200	ug/L	5.61	-0.00299	97	80-120			

Batch 4L22014 - EPA 7471B

Blank (4L22014-BLK1)

Prepared: 12/26/2014 14:15 Analyzed: 12/29/2014 07:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00390	U	0.0100	mg/kg wet							

LCS (4L22014-BS1)

Prepared: 12/26/2014 14:15 Analyzed: 12/29/2014 07:38

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.582		0.0100	mg/kg wet	0.600		97	80-120			

Matrix Spike (4L22014-MS1)

Prepared: 12/26/2014 14:15 Analyzed: 12/29/2014 07:52

Source: A407528-06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.548		0.00894	mg/kg dry	0.537	0.0214	98	75-125			

Matrix Spike Dup (4L22014-MSD1)

Prepared: 12/26/2014 14:15 Analyzed: 12/29/2014 07:55

Source: A407528-06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.550		0.00894	mg/kg dry	0.537	0.0214	98	75-125	0.4	20	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4L22003 - EPA 3050B

Blank (4L22003-BLK1)

Prepared: 12/22/2014 09:13 Analyzed: 12/26/2014 10:22

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.672	U	0.943	mg/kg wet							
Barium	0.0604	U	0.943	mg/kg wet							
Cadmium	0.0170	U	0.0943	mg/kg wet							
Chromium	0.0585	U	0.943	mg/kg wet							
Lead	0.208	U	0.943	mg/kg wet							
Selenium	0.679	U	3.77	mg/kg wet							

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4L22003 - EPA 3050B - Continued

Blank (4L22003-BLK1) Continued

Prepared: 12/22/2014 09:13 Analyzed: 12/26/2014 10:22

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Silver	0.136	U	0.943	mg/kg wet							

LCS (4L22003-BS1)

Prepared: 12/22/2014 09:13 Analyzed: 12/26/2014 10:24

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	48.2		0.980	mg/kg wet	49.0		98	80-120			
Barium	49.2		0.980	mg/kg wet	49.0		100	80-120			
Cadmium	4.90		0.0980	mg/kg wet	4.90		100	80-120			
Chromium	49.0		0.980	mg/kg wet	49.0		100	80-120			
Lead	48.3		0.980	mg/kg wet	49.0		99	80-120			
Selenium	46.3		3.92	mg/kg wet	49.0		94	80-120			
Silver	9.65		0.980	mg/kg wet	9.80		98	80-120			

Matrix Spike (4L22003-MS1)

Prepared: 12/22/2014 09:13 Analyzed: 12/26/2014 10:26

Source: B405625-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	31.0		0.620	mg/kg dry	32.3	0.441 U	96	75-125			
Barium	37.6		0.620	mg/kg dry	32.3	5.24	100	75-125			
Cadmium	3.24		0.0620	mg/kg dry	3.23	0.0480	99	75-125			
Chromium	35.7		0.620	mg/kg dry	32.3	3.77	99	75-125			
Lead	34.7		0.620	mg/kg dry	32.3	2.90	99	75-125			
Selenium	29.2		2.48	mg/kg dry	32.3	0.446 U	91	75-125			
Silver	6.39		0.620	mg/kg dry	6.46	0.0892 U	99	75-125			

Matrix Spike Dup (4L22003-MSD1)

Prepared: 12/22/2014 09:13 Analyzed: 12/26/2014 10:28

Source: B405625-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	29.2		0.620	mg/kg dry	30.7	0.441 U	95	75-125	6	30	
Barium	36.1		0.620	mg/kg dry	30.7	5.24	101	75-125	4	30	
Cadmium	3.08		0.0620	mg/kg dry	3.07	0.0480	99	75-125	5	30	
Chromium	34.1		0.620	mg/kg dry	30.7	3.77	99	75-125	5	30	
Lead	33.4		0.620	mg/kg dry	30.7	2.90	99	75-125	4	30	
Selenium	27.7		2.48	mg/kg dry	30.7	0.446 U	90	75-125	5	30	
Silver	6.09		0.620	mg/kg dry	6.14	0.0892 U	99	75-125	5	30	

Batch 4L26004 - EPA 3050B

Blank (4L26004-BLK1)

Prepared: 12/26/2014 08:59 Analyzed: 12/30/2014 13:05

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	0.672	U	0.943	mg/kg wet							

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4L26004 - EPA 3050B - Continued

LCS (4L26004-BS1)

Prepared: 12/26/2014 08:59 Analyzed: 12/30/2014 13:12

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	47.3		1.00	mg/kg wet	50.0		95	80-120			

Matrix Spike (4L26004-MS1)

Prepared: 12/26/2014 08:59 Analyzed: 12/30/2014 13:14

Source: A407553-04

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	45.6		1.01	mg/kg dry	50.5	0.719 U	90	75-125			

Matrix Spike Dup (4L26004-MSD1)

Prepared: 12/26/2014 08:59 Analyzed: 12/30/2014 13:16

Source: A407553-04

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	47.2		1.01	mg/kg dry	50.5	0.719 U	94	75-125	3	30	

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4L22004 - EPA 3005A

Blank (4L22004-BLK1)

Prepared: 12/22/2014 09:15 Analyzed: 12/23/2014 11:34

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	7.12	U	10.0	ug/L							
Barium	0.630	U	10.0	ug/L							
Cadmium	0.170	U	1.00	ug/L							
Chromium	1.30	U	10.0	ug/L							
Lead	2.20	U	10.0	ug/L							
Selenium	6.60	U	40.0	ug/L							
Silver	1.20	U	10.0	ug/L							

LCS (4L22004-BS1)

Prepared: 12/22/2014 09:15 Analyzed: 12/23/2014 11:37

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	514		10.0	ug/L	500		103	80-120			
Barium	528		10.0	ug/L	500		106	80-120			
Cadmium	52.4		1.00	ug/L	50.0		105	80-120			
Chromium	520		10.0	ug/L	500		104	80-120			
Lead	518		10.0	ug/L	500		104	80-120			
Selenium	514		40.0	ug/L	500		103	80-120			
Silver	105		10.0	ug/L	100		105	80-120			

Matrix Spike (4L22004-MS1)

Prepared: 12/22/2014 09:15 Analyzed: 12/23/2014 11:39

Source: B405564-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	508		10.0	ug/L	500	7.12 U	102	75-125			
Barium	532		10.0	ug/L	500	17.1	103	75-125			
Cadmium	51.1		1.00	ug/L	50.0	0.170 U	102	75-125			
Chromium	515		10.0	ug/L	500	1.30 U	103	75-125			
Lead	505		10.0	ug/L	500	2.20 U	101	75-125			
Selenium	507		40.0	ug/L	500	6.60 U	101	75-125			
Silver	104		10.0	ug/L	100	1.20 U	104	75-125			

QUALITY CONTROL DATA

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4L22004 - EPA 3005A - Continued

Matrix Spike Dup (4L22004-MSD1)

Prepared: 12/22/2014 09:15 Analyzed: 12/23/2014 11:41

Source: B405564-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	504		10.0	ug/L	500	7.12 U	101	75-125	0.8	20	
Barium	532		10.0	ug/L	500	17.1	103	75-125	0.1	20	
Cadmium	50.8		1.00	ug/L	50.0	0.170 U	102	75-125	0.6	20	
Chromium	514		10.0	ug/L	500	1.30 U	103	75-125	0.2	20	
Lead	506		10.0	ug/L	500	2.20 U	101	75-125	0.07	20	
Selenium	506		40.0	ug/L	500	6.60 U	101	75-125	0.1	20	
Silver	104		10.0	ug/L	100	1.20 U	104	75-125	0.06	20	

Batch 4L30003 - EPA 3005A

Blank (4L30003-BLK1)

Prepared: 12/30/2014 09:00 Analyzed: 12/31/2014 11:27

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	7.12	U	10.0	ug/L							

LCS (4L30003-BS1)

Prepared: 12/30/2014 09:00 Analyzed: 12/31/2014 11:30

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	482		10.0	ug/L	500		96	80-120			

Matrix Spike (4L30003-MS1)

Prepared: 12/30/2014 09:00 Analyzed: 12/31/2014 11:32

Source: B405675-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	485		10.0	ug/L	500	8.40	95	75-125			

Matrix Spike Dup (4L30003-MSD1)

Prepared: 12/30/2014 09:00 Analyzed: 12/31/2014 11:34

Source: B405675-01

<u>Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>POL</u>	<u>Units</u>	<u>Spike Level</u>	<u>Source Result</u>	<u>%REC</u>	<u>%REC Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Notes</u>
Arsenic	490		10.0	ug/L	500	8.40	96	75-125	1	20	

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
GC-07	Confirmation result exceeds 40% RPD, lower result reported due to interference.
J-01	Result is estimated due to positive results in the associated method blank.
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
J-04	Result estimated, calibration verification standard failed with high bias.
J-05	Result estimated, calibration verification standard failed with low bias.
O-01	This compound is a common laboratory contaminant.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-13	Suspected matrix effects
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name Geotechnical and Environmental (GE002)		Project Number [none]		Requested Analyses										Requested Turnaround Times	
Address 919 Lake Baldwin Lane		Project Name/Desc. I-4 Level II		%Solids, 8081B, 8082A, 8270D PAH SIM, Ag, As, Ba, Cd, Cr, FLPRO, Hg, Pb, Se 8260B (Full List VOCs) %Solids, 8081B (Pests), 8151A (Herbs) 8280B (Full List VOCs), 8260B TICs 8081B, 8082A, 8270D PAH SIM 8270D, 8270D TICs FLPRO Ag, As, Ba, Cd, Cr, Hg, Pb, Se 8081B (Pesticides) 8151A (Herbicides)	Note: Rush requests subject to acceptance by the facility		___ Standard								
City/ST/Zip Orlando, FL 32814		PO # / Billing Info			___ Expedited										
Tel (407) 898-1818	Fax (407) 898-1837	Reporting Contact Richard McCormick			Due ___/___/___										
Sampler(s) Name, Affiliation (Print) Jerry W. Governale GEC		Billing Contact Accounts Payable			Lab Workorder A407553										
Sampler(s) Signature <i>[Signature]</i>		Site Location / Time Zone			Lab Workorder A407258										

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)										Sample Comments				
							I	OI	I	HI	I	I	SI	N	I	I					
1	SB-9	12/19/14	0932	Grab	SO	3															
2	SB-9	12/19/14	0932	Grab	SO	3	✓														0 - 10mL MeOH + DI WATER
3	TMW-5	12/19/14	1115	Grab	GW	2															
4	TMW-5	12/19/14	1115	Grab	GW	1	✓														
5	TMW-5	12/19/14	1115	Grab	GW	1															
6	TMW-5	12/19/14	1115	Grab	GW	1															
7	TMW-5	12/19/14	1115	Grab	GW	1	+														
8	TMW-5	12/19/14	1115	Grab	GW	3															
9	TMW-6	12/19/14	1305	Grab	GW	1															
10	TMW-6	12/19/14	1305	Grab	GW	1															
11	CS-18	12/19/14	1348	Comp	SO	1															
12	CS-15	12/19/14	1420	Comp	SO	1															

Sample Kit Prepared By <i>[Signature]</i>	Date/Time 12/18/2014 1230	Relinquished By <i>[Signature]</i>	Date/Time 12/18/2014 1230	Received By Jerry W. Governale	Date/Time 12/10/14 1600
Comments/Special Reporting Requirements		Relinquished By Jerry W. Governale	Date/Time 12/19/14 1535	Received By <i>[Signature]</i>	Date/Time 12/10/14 1600
		Relinquished By <i>[Signature]</i>	Date/Time 12/19/14 1535	Received By Prandy Hart	Date/Time 12-19-14 1535
	Cooler #'s & Temps on Receipt Med-66 20C				Condition Upon Receipt <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

[Signature] 12/19/14 1535



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name Geotechnical and Environmental (GE002)		Project Number [none]		Requested Analyses								Requested Turnaround Times							
Address 919 Lake Baldwin Lane		Project Name/Disc I-4 Level II		%Solids,8081B,8082A,8270D,8270D PAH SIM,Ag,As,Ba,Cd,Cr,FLPRO,Hg,Pb,Se	8260B (Full List VOCs)	%Solids,8081B (Pests),8151A (Herbs)	8260B (Full List VOCs),8260B TICs	8081B,8082A,8270D PAH SIM	8270D,8270D TICs	FLPRO	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	8081B (Pesticides)	8151A (Herbicides)	Note : Rush requests subject to acceptance by the facility					
City/ST/Zip Orlando, FL 32814		PO # / Billing Info												___ Standard		___ Expedited			
Tel (407) 898-1818		Fax (407) 898-1837												Reporting Contact Richard McCormick		Billing Contact Accounts Payable		Due ___/___/___	
Sampler(s) Name, Affiliation (Print) Jerry W. Governale GEC		Billing Contact Accounts Payable												Site Location / Time Zone		Lab Workorder A407258			
Sampler(s) Signature																			

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)								Sample Comments						
							I	OI	I	HI	I	I	SI	N		I	I				
13	CS-16	12/19/14	1420	Comp	SO	1															
14	CS-14	12/19/14	1410	Comp	SO	1															
15	CS-17	12/19/14	1358	Comp	SO	1															
16	CS-13	12/19/14	1415	Comp	SO	1															
17	CS-19	12/19/14	1310	Comp	SO	1															
18	CS-20	12/19/14	1400	Comp	SO	1															

← Total # of Containers

Sample Kit Prepared By kg	Date/Time 12/8/2014 12:30	Relinquished By R. Celli	Date/Time 12/8/2014 15:50	Received By Jerry W. Governale	Date/Time 12/10/14 1600
Comments/Special Reporting Requirements		Relinquished By Jerry W. Governale	Date/Time 12/19/14 1535	Received By [Signature]	Date/Time 12/10/14 1600
		Relinquished By [Signature]	Date/Time 12/19/14 1535	Received By Brandy Heasler	Date/Time 12/19/14 15:35
cooler # & Temps on Receipt Med-66 2°C	Condition Upon Receipt /				Acceptable <input checked="" type="checkbox"/> Unacceptable <input type="checkbox"/>

APPENDIX C

Asbestos Report

**ASBESTOS-CONTAINING MATERIAL SURVEY
DEBRIS PILES
POND SITES 205A AND 205B
9200 AND 9278 TURKEY LAKE ROAD
ORLANDO, ORANGE COUNTY, FLORIDA**

PREPARED FOR:



Geotechnical and Environmental Consultants, Inc.
919 Lake Baldwin Lane
Orlando, Florida 32814
(407) 898-1818

PREPARED BY:



Aerostar SES LLC
11181 St. Johns Industrial Parkway North
Jacksonville, Florida 32246
(904) 565-2820

Aerostar Project # M3010.1289.0001.17

February 23, 2015

SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

This is to certify that the Asbestos-Containing Materials Survey of **Debris Piles found at Pond Sites 205A and 205B located at 9200 and 9278 Turkey Lake Road, Orlando, Orange County, Florida**, has been examined by the undersigned.

DATE: February 23, 2015

SIGNATURE: _____


John H. Hubbard
Project Manager
AHERA Certification Number
ME6982D62C55D04E1

DATE: February 23, 2015

SIGNATURE: _____



Paul Fitch, P.E., LAC
Licensed Asbestos Consultant
License No. AX64

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SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

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TABLE

TABLE 1	Summary of Asbestos Survey
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FIGURE

FIGURE 1	Site Map
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APPENDICES

APPENDIX A	Certifications
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APPENDIX C	Laboratory Analytical Results

1.0 INTRODUCTION

On February 13, 2015, an Asbestos Hazard Emergency Response Act (AHERA)-certified asbestos inspector conducted an asbestos-containing materials (ACM) survey of debris piles discovered on proposed Pond Sites 205A and 205B located at 9200 and 9278 Turkey Lake Road, Orlando, Orange County, Florida. The area of the survey included accessible portions of three piles of debris described to contain shingles, one pile of debris described to be from a demolished residential structure, and the slab of the demolished residential structure. Aerostar SES LLC (Aerostar) is a Licensed Asbestos Business Organization, recognized by the Florida Department of Business and Professional Regulation (DBPR), Asbestos Licensing Unit, License Number ZA455. All survey activities were conducted under the direction of a DBPR-Licensed Asbestos Consultant. Copies of our certifications are included in Appendix A.

2.0 REGULATORY SUMMARY

2.1 Environmental Protection Agency

The Environmental Protection Agency (EPA) has published a list of hazardous air pollutants and promulgated the "National Emission Standards for Hazardous Air Pollutants" (NESHAP) regulations. Since asbestos presents a significant risk to human health as a result of air emissions from one or more source categories, it is therefore considered a hazardous air pollutant. The Asbestos NESHAP (40 CFR 61, Subpart M) addresses milling, manufacturing and fabricating operations, demolition and renovation activities, waste disposal issues, active and inactive waste disposal sites and asbestos conversion processes.

Friable ACM is defined by asbestos NESHAP regulations, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure (Sec. 61.141).

Non-friable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure (Sec. 61.141).

EPA also defines two categories of non-friable ACM: Category I and Category II non-friable ACM.

- Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined using PLM according to the method specified in Appendix E, Subpart E, 40 CFR Part 763 (Sec. 61.141).
- Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined using PLM according to the methods specified in Appendix E, Subpart E, 40 CFR Part 763, that, when dry,

cannot be crumbled, pulverized, or reduced to powder by hand pressure (Sec. 61.141).

"Regulated Asbestos-Containing Material" (RACM) is: (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Category I non-friable ACM must be inspected and tested for friability if it is in poor condition before demolition to determine whether or not it is subject to NESHAP. If the ACM is friable, it must be handled in accordance with NESHAP. Asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing materials must be removed before demolition only if they are in poor condition and are friable.

NESHAP further requires that if a facility is demolished by intentional burning, all of the facility's ACM, including Category I and II non-friable ACM must be removed prior to burning (Sec. 61.145(c)(10)).

If Category I or Category II non-friable ACM is to be sanded, ground, cut, or abraded, the material is considered RACM and the owner or operator must abide by the following (Sec. 61.145(c)(1)):

- (i) Adequately wet the material during the sanding, grinding, cutting or abrading operations;
- (ii) Comply with the requirements of 61.145(c)(3)(i) if wetting would unavoidably damage equipment or present a safety hazard; and
- (iii) Handle asbestos material produced by the sanding, grinding, cutting, or abrading, as asbestos-containing waste material subject to the waste handling and collection provisions of Section 61.150.

Except for the following, Section 61.145(c) of the NESHAP regulations requires that each owner or operator of a demolition or renovation activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable;
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition;
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be

- treated as asbestos-containing waste material and kept adequately wet at all times until disposed of; or
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

2.2 Occupational Safety and Health Administration

Occupational Safety and Health Administration (OSHA) regulates asbestos exposure during all construction work including, but not limited to, the following:

- Demolition or salvage of structures where asbestos is present;
- Removal or encapsulation of materials containing asbestos;
- Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos;
- Installation of products containing asbestos;
- Asbestos spill/emergency cleanup; and
- Transportation, disposal, storage, containment of and housekeeping activities involving asbestos or products containing asbestos, on the site or location at which construction activities are performed.

OSHA Standard 29 CFR 1926.1101 requires the use of engineering controls, work practices, and personal protective equipment to reduce or eliminate employee exposure to asbestos. The OSHA standard does not apply to asbestos-containing asphalt roof coatings, cements and mastics.

2.3 State of Florida

Florida Statutes 469.004 and 469.005 require licensure of asbestos consultants and contractors by the DBPR.

Florida Statute 553.79 requires that the Department of Environmental Protection be notified in writing before a local building permit is granted for any building demolition or renovation which would disturb asbestos material.

3.0 METHODS OF INVESTIGATION

Sampling protocols set forth by the EPA under 40 CFR 763.86 were followed during the inspection. The asbestos survey was performed by observing, touching, and sampling accessible suspect construction materials throughout each debris pile. The purpose of this survey was to locate and identify suspect ACMs, to quantify the material, and to separate it into unique areas for further assessment. The condition and location of representative suspect materials were reported where easily accessible and visible.

Bulk asbestos sampling procedures utilized for the collection of suspect ACMs first required the establishment of a homogeneous sampling area. A homogeneous sampling area is defined as an area of material of the same type (texture and color) which was applied during the same general time period. Each individual sampling area was then examined and representative samples of

suspect materials were collected. The U.S. EPA has published guidelines and recommendations pertaining to surveying and sampling for friable ACMs. The guidelines were followed during the survey where appropriate. U.S. EPA publications and current regulations mainly address friable materials, such as surface finishes and structural fireproofing. The samples were analyzed by PLM with dispersion staining according to EPA Method 600/R-93/116. The PLM test is an EPA-approved analytical method for asbestos identification. The test uses the unique optical properties of mineral forms in the samples to specifically identify the various asbestos types.

Where distinct layers were present, bulk samples were collected to represent each individual layer of the suspect material. Mastic and/or other adhesive substances were included when possible. At the time of sample collection, the inspector noted material type, approximate amount, sampling locations, and condition of the materials.

Samples were labeled with an alphanumeric identification system (xxx(x)-yy-z). The first set of numbers (xxx(x)) indicates which debris pile the material was collected from, starting with the western most debris pile and moving easterly to the debris pile from the demolished residential structure. The second set of numbers (yy) indicates the homogeneous area designation assigned by the asbestos inspector. The third set of numbers (z) is the individual sample identification number.

The surface area of the samples was adequately wetted prior to sample collection. No visible emissions were allowed. Samples were transported to EMSL Analytical Inc. (EMSL), 5125 Adanson Street, Suite 900, Orlando, Florida 32804. EMSL is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) to conduct PLM analysis. A copy of the laboratory credentials is included in Appendix A.

4.0 RESULTS

On February 13, 2015, Mr. John Hubbard and Ms. Ashley Block, AHERA-certified Asbestos Inspectors, conducted an asbestos survey of three debris piles described as shingles debris, one debris pile from a demolished residential structure, and the concrete slab from the demolished residential structure to identify the locations, quantities, and conditions of ACMs.

4.1 Homogeneous Areas

Debris Pile #1, located in the center of the driveway loop along the eastern edge of the pond contained suspect roofing material and metal roof drip edge. Two homogeneous areas were identified and sampled from Debris Pile #1, which included:

- Brown Asphalt Shingles
- Gray Asphalt Shingles

Debris Pile #2 was dispersed near the center of the southern edge of the large hill located on the site, and contained suspect roofing materials, portions of a brick chimney, and yard waste. Two homogeneous areas were identified and sampled from Debris Pile #2, which included:

- Chimney Flashing
- Brown Asphalt Shingles

Debris Pile #3, located in the northwest portion of the large hill, contained yard waste, stepping stones, a mattress, a water heater, car parts, a tire, wood fencing, and plywood. No suspect material was identified in Debris Pile #3. No samples were collected from Debris Pile #3.

Building Debris Pile #1, located along the northern edge of the large hill, contained chain-link fencing, wood structural components, wood siding, metal drip edge, gypsum wallboard, heating, ventilation, and air conditioning (HVAC) duct, roofing material, wood paneling, household garbage, and a large tire. Four homogeneous areas were identified and sampled, which included:

- Gray Asphalt Shingles
- Felt Paper Vapor Barrier
- HVAC Duct Mastic
- Gypsum Wallboard

The concrete slab associated with the demolished residential structure, located adjacent to Building Debris Pile #1, was finished with vinyl sheet flooring (VSF). One homogeneous area was identified and sampled, which included the VSF.

Locations of the debris piles and slab are depicted on Figure 1. Photographic documentation showing the debris piles and homogeneous areas is included as Appendix B.

4.2 Sample Collection and Laboratory Analytical Results

A total of 28 samples were collected from the 9 homogeneous areas identified and submitted to EMSL for analysis by PLM. Analytical results revealed the following three homogeneous areas sampled was found to contain >1% asbestos by EPA Method 600/R-93/116:

- Chimney Flashing (homogeneous area DP2-1) located in Debris Pile #2 contained 5% Chrysotile Asbestos
- HVAC Duct Mastic (homogeneous area BDP1-3) located in Building Debris Pile #1 contained 8% Chrysotile Asbestos
- VSF – rock pattern (homogeneous area SLAB) located throughout the slab, contained 20% Chrysotile Asbestos

Asbestos sample results are summarized in Table 1. Laboratory analytical results are included in Appendix C.

5.0 LIMITATIONS

Aerostar has prepared this ACM survey for Geotechnical and Environmental Consultants, Inc., hereafter referred to as the Client. No ACM survey can eliminate all uncertainty. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Even when sampling is executed with an appropriate site-specific standard of care, certain conditions present especially difficult detection problems. Such conditions may include, but are not limited to, physical limitations imposed by the location and accessibility of possible ACMs and the limitations of assessment technologies. Only reasonably accessible areas were surveyed as part of this investigation. Aerostar is not responsible for possible ACMs that were inaccessible and/or not located, or any consequential damages as a result thereof.

Measurements and sampling data only represent the site conditions at the time of the data collection. Aerostar makes no legal representations whatsoever concerning any matter including, but not limited to, ownership of any property or the interpretation of any law. Aerostar further disclaims any obligations to update the report for events taking place after the time during which the assessment was conducted.

This report is not a comprehensive site characterization and should not be construed as such. The opinions presented in this report are based upon the findings derived from the samples collected.

The scope of work performed herein was limited to asbestos sample collection and laboratory analysis of only the samples collected at the time of inspection. Aerostar has endeavored to meet what it believes is the applicable standard of care, and, in doing so, is obliged to advise the Client of the limitations. Aerostar believes that providing information about limitations is essential to help the Client identify and thereby manage its risks. Through additional testing, these risks can be mitigated - but they cannot be eliminated. Aerostar will, upon request, advise the Client of the additional research opportunities available, their impact, and their cost.

As noted above, the ACM survey conducted at the referenced site and this report was prepared for the use solely by the Client. This report shall not be relied upon by or transferred to any other party without the express written authorization of Aerostar; however, this report may be made available to perspective bidders for information purposes.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Aerostar has completed an ACM survey of debris piles discovered on proposed Pond Sites 205A and 205B located at 9200 and 9278 Turkey Lake Road, Orlando, Orange County, Florida. Nine homogeneous areas were identified and sampled. Analytical results of the samples revealed that three homogeneous areas contained greater than 1% asbestos by PLM. The homogeneous areas containing greater than 1% asbestos included chimney flashing, HVAC duct mastic, and VSF.

Chimney flashing, HVAC duct mastic, and VSF are NESHAP Category I non-friable ACMs. NESHAP Category I non-friable ACMs are not required to be removed prior to demolition or renovation of a building, provided that wet-demolition practices are implemented and resulting

debris from the building is properly transported to a landfill permitted for disposal of ACM. If NESHAP Category I non-friable ACMs are in poor condition or become friable during demolition, the material must be treated as a RACM and be removed by a licensed asbestos abatement contractor and disposed of at a class one landfill prior to renovation, remodeling, or demolition of the building.

Due to the presence of asbestos, OSHA's Asbestos Standard for the Construction Industry (29 CFR 1926.1101) must be followed. In accordance with the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101), the removal and disposal of Category I Non-friable ACMs is a Class II work activity if the material is removed in an intact condition.

Transportation of ACM should be conducted in accordance with the United States Department of Transportation (USDOT) regulations outlined in 49 CFR 173.216. ACM must be disposed at a facility permitted by the EPA to accept asbestos.

Suspect ACMs encountered during land clearing, renovation, or demolition activities that are not identified in this survey should be assumed to contain asbestos or be sampled by an AHERA-certified inspector and analyzed by an accredited laboratory.

TABLE

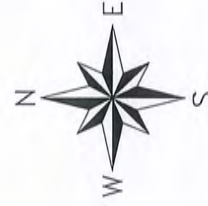
TABLE 1
SUMMARY OF ASBESTOS SURVEY
Debris Piles
Pond Sites 205A and 205B
9200 and 9278 Turkey Lake Road
Orlando, Orange County, Florida

Homogeneous Area Sample ID	Material Description	Location	Approximate Amount Square Feet (SF) Linear Feet (LF) Cubic Feet (CF)	Number of Samples Collected	% Asbestos Type	NESHAP Category	Friable (Y/N)	Condition	Note
DP1-1-1, DP1-1-2, DP1-1-3	Brown Asphalt Shingles	Debris Pile 1, In Driveway Loop Center on Eastern Edge of Pond	250 CF	3	None Detected (ND)	---	N	Fair	
DP1-2-1, DP1-2-2, DP1-2-3	Gray Asphalt Shingles	Debris Pile 1, In Driveway Loop Center on Eastern Edge of Pond	250 CF	3	ND	---	N	Fair	
DP2-1-1, DP2-1-2, DP2-1-3	Chimney Flashing	Debris Pile 2, Near Center along Southern Edge of Hill	2 SF	2	5% Chrysotile	NF Cat. I	N	Fair	
DP2-2-1, DP2-2-2, DP2-2-3	Brown Asphalt Shingles	Debris Pile 2, Near Center along Southern Edge of Hill	1,250 Cubic Feet	3	ND	---	N	Fair	
BDP1-1-1, BDP1-1-2, BDP1-1-3	Gray Asphalt Shingles	Building Debris Pile, Near Eastern End along Northern Edge of Hill	1,250 CF	3	ND	---	N	Fair	
BDP1-2-1, BDP1-2-2, BDP1-2-3	Felt Paper Vapor Barrier	Building Debris Pile, Near Eastern End along Northern Edge of Hill	4,500 CF	3	ND	---	N	Fair	
BDP1-3-1, BDP1-3-2, BDP1-3-3	Heating Ventilation and Air Conditioning (HVAC) Duct/Mastic	Building Debris Pile, Near Eastern End along Northern Edge of Hill	10 SF	3	8% Chrysotile	NF Cat. I	N	Fair	
BDP1-4-1, BDP1-4-2, BDP1-4-3, BDP1-4-4, BDP1-4-5	Gypsum Wall Board	Building Debris Pile, Near Eastern End along Northern Edge of Hill	4,500 CF	5	ND	---	Y	Poor	
SLAB-1, SLAB-2, SLAB-3	Vinyl Sheet Flooring (VSF), Rock Pattern	Concrete Building Slab North of Hill Near Site Access Point	1,200 SF	3	20% Chrysotile	NF Cat. I	N	Fair	

FIGURE

LEGEND

— APPROXIMATE SITE BOUNDARY



TURKEY LAKE ROAD



JOB: M3010.1289.0001.17

FIGURE 1. SITE MAP

POND SITES 205A AND 205B
9278 AND 9200 TURKEY LAKE ROAD
ORLANDO, ORANGE COUNTY, FLORIDA

SCALE: NOT TO SCALE

DATE: FEBRUARY 2015

REVIEWED: J. HUBBARD



APPENDIX A – CERTIFICATIONS



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

**AEROSTAR SES LLC
PAUL M FITCH
11181 ST JOHNS INDUSTRIAL PKWY NORTH
JACKSONVILLE FL 32246-7643**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

ZA455 ISSUED: 08/29/2013

**ASBESTOS BUSINESS ORGANIZATION
AEROSTAR SES LLC
PAUL M FITCH**

IS LICENSED under the provisions of Ch.469 FS.
Expiration date : NOV 30, 2015 L1308290003721



The Department of State is leading the commemoration of Florida's 500th anniversary in 2013. For more information, please go to www.VivaFlorida.org.

DETACH HERE

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

LICENSE NUMBER	
ZA455	

The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2015



**AEROSTAR SES LLC
PAUL M FITCH
11181 ST JOHNS INDUSTRIAL PKWY NORTH
JACKSONVILLE FL 32246-7643**



**RICK SCOTT
GOVERNOR**

**ISSUED: 08/29/2013 SEQ # L1308290003721
DISPLAY AS REQUIRED BY LAW**

**KEN LAWSON
SECRETARY**



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

**FITCH, PAUL M JR
AEROSTAR SES LLC
4985 AVENUE D
SAINT AUGUSTINE FL 32095**

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Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

LICENSE NUMBER	
AX64	

The ASBESTOS CONSULTANT
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2016

**FITCH, PAUL M JR
AEROSTAR SES LLC
4985 AVENUE D
SAINT AUGUSTINE FL 32095**



ISSUED: 09/14/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1409140005747



M·E·T·A
Mayhew Environmental Training Associates
I N C O R P O R A T E D

Certificate # ME6982D62C55D04E1

John H Hubbard

*has on 7/28/2014 in Jacksonville, FL
 completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646*

4-hr. Asbestos Building Inspector Refresher

*as approved by FL
 and the US EPA under 40 CFR 763 (AHERA)
 from 7/28/2014 to 7/28/2014 and passed the associated exam on 7/28/2014
 with a score of at least 70%*



Bill Young

Bill Young
 Instructor

Thomas Mayhew

Thomas Mayhew
 President

Training Provider #: FL49-0001221
 Course #: 140728ASBIRFL365

SSN: XXX-XX-7162
 Expiration: 7/27/2015

P.O. Box 4693 - Lawrence, KS. 66047 - 800.444.6382

www.metaenvironmental.net



Center for Training, Research and Education for Environmental Occupations

certifies

Ashley E Block

AerostarSES LLC, 535 Cooper Commerce Dr. Ste. 300 Apopka, FL 32703

has successfully met certificate requirements for the

Asbestos: Inspector

Approval: FBPR Asbestos Licensing Unit: Provider #0000995; Course #FL49-0002859 (3 Days; 21 Contact Hours)
(Accreditation for Inspector Under TSCA Title III/AHERA)

Conducted

10/06/2014 to 10/08/2014

Certificate #: 150145-4751

CEUs: 2.1

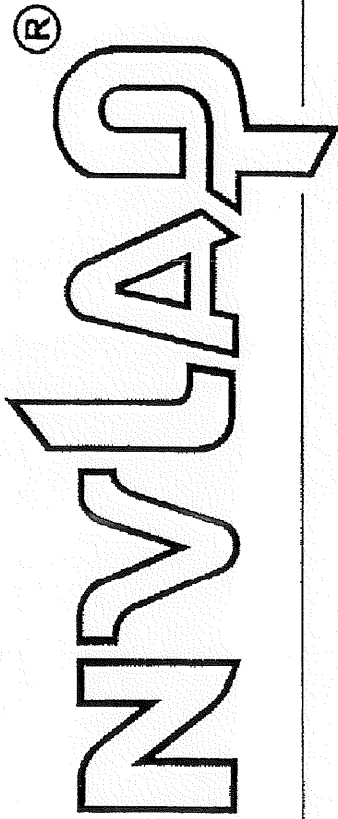
EPA accreditation expires: 10/08/2015

Principal Instructor: Russell Stauffer, PE

FBPE PDHs: 0009087/Educational Institutions: 21.0

Carol Hinton, Associate Director

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

EMSL Analytical, Inc.
Orlando, FL

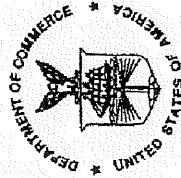
is accredited by the *National Voluntary Laboratory Accreditation Program* for specific services,
listed on the *Scope of Accreditation*, for:

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2014-07-01 through 2015-06-30

Effective dates



A handwritten signature in black ink, appearing to read "Michael R. M. L. D.", positioned above the official title.

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
 5125 Adanson Street, Suite 900
 Orlando, FL 32804
 Dr. Blanca Cortes
 Phone: 407-599-5887 Fax: 407-599-9063
 E-Mail: bcortes@emsl.com
 URL: http://www.emsl.com

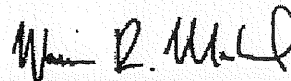
BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101151-0

<i>NVLAP Code</i>	<i>Designation / Description</i>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-07-01 through 2015-06-30

Effective dates



For the National Institute of Standards and Technology

APPENDIX B – PHOTOGRAPHIC DOCUMENTATION



1. Looking west at Debris Pile #1 located in the center of the driveway loop on the eastern edge of the pond.



2. View of metal drip edge and shingles located in Debris Pile #1.



3. View of homogeneous area DP1-1, gray asphalt shingles, located in Debris Pile #1. No asbestos was detected in homogeneous area DP1-1.



4. View of homogeneous area DP1-2, brown asphalt shingles, located in Debris Pile #1. No asbestos was detected in homogeneous area DP1-2.



5. Looking north at the southern edge of the hill at Debris Pile #2 located near the center of the southern edge of the hill. Debris was scattered and partially buried into the side of the hill.



6. View of homogeneous area DP2-1, chimney flashing, located in Debris Pile #2. Laboratory analytical results showed 5% chrysotile asbestos in homogeneous area DP2-1.



7. View of homogeneous area DP2-2, brown asphalt shingles, located in Debris Pile #2. No asbestos was detected in homogeneous area DP2-2.



8. Additional view of homogeneous area DP2-2, brown asphalt shingles, located in Debris Pile #2. No asbestos was detected in homogeneous area DP2-2.



9. View of fencing, stepping stones, and yard waste in Debris Pile #3 located on the northwestern edge of the hill. No suspect asbestos-containing materials (ACMs) were observed in Debris Pile #3.



10. View of yard waste and a mattress located in Debris Pile #3. No suspect ACMs were observed in Debris Pile #3.



11. View of yard waste, automobile parts, plywood, and a water heater located in Debris Pile #3. No suspect ACMs were observed in Debris Pile #3.



12. View of yard waste, plywood, and a tire located in Debris Pile #3. No suspect ACMs were observed in Debris Pile #3.



13. Looking south at the Building Debris Pile #1 located on the northern edge of the hill. Note the debris pile was partially covered with vegetation.



14. Looking south at the Building Debris Pile #1 located on the northern edge of the hill. The view is of the portion of the pile with no vegetation.



15. Looking north at the Building Debris Pile #1 from the hill.



16. View of homogeneous area BDP1-1, gray asphalt shingles, located beneath the vegetation in Building Debris Pile #1. No asbestos was detected in homogeneous area BDP1-1.



17. View of homogeneous area BDP1-2, felt paper vapor barrier, located in Building Debris Pile #1. No asbestos was detected in homogeneous area BDP1-2.



18. View of homogeneous area BDP1-3, heating, ventilation, and air conditioning (HVAC) duct mastic located in Building Debris Pile #1. Laboratory analytical results showed 8% chrysotile asbestos in homogeneous area BDP1-3.



19. View of homogeneous area BDP1-4, gypsum wall board, located in Building Debris Pile #1. No asbestos was detected in homogeneous area BDP1-4.



20. Looking south at the slab located east of Building Debris Pile #1.



21. Looking northeast at the slab.



22. View of homogeneous area SLAB, vinyl sheet flooring (VSF) with rock pattern located on the slab. Analytical results showed 20% chrysotile asbestos in homogeneous area SLAB.

APPENDIX C – LABORATORY ANALYTICAL RESULTS



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804
Phone/Fax (407) 599-5887 / (407) 599-9063
<http://www.EMSL.com> orlandolab@emsl.com

EMSL Order: 341501398
CustomerID: AERO54
CustomerPO: M30101289
ProjectID:

Attn: **John Hubbard**
Aerostar SES LLC
11181 St. Johns Industrial Parkway North

Jacksonville, FL 32246
Project: **Pond Sites**

Phone: (904) 565-2820
Fax: (904) 565-2830
Received: 02/13/15 10:11 AM
Analysis Date: 2/16/2015
Collected: 2/13/2015

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DP1-1-1 341501398-0001	Debris Pile 1 - Brown Asphalt Shingles	Various Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP1-1-2 341501398-0002	Debris Pile 1 - Brown Asphalt Shingles	Various Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP1-1-3 341501398-0003	Debris Pile 1 - Brown Asphalt Shingles	Gray/Tan/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP1-2-1 341501398-0004	Debris Pile 1 - Gray Asphalt Shingles	Gray/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP1-2-2 341501398-0005	Debris Pile 1 - Gray Asphalt Shingles	Gray/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP1-2-3 341501398-0006	Debris Pile 1 - Gray Asphalt Shingles	Gray/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected
DP2-1-1 341501398-0007	Debris Pile 2 - Chimney Flashing	Black Fibrous Heterogeneous	10% Cellulose	85% Non-fibrous (other)	5% Chrysotile
DP2-1-2 341501398-0008	Debris Pile 2 - Chimney Flashing				Stop Positive (Not Analyzed)
DP2-2-1 341501398-0009	Debris Pile 2 - Brown Asphalt Shingles	Various Fibrous Homogeneous	8% Glass	92% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 02/17/2015 07:46:34

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.EMSL.com>orlandolab@emsl.com

EMSL Order: 341501398

CustomerID: AERO54

CustomerPO: M30101289

ProjectID:

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11181 St. Johns Industrial Parkway North

Jacksonville, FL 32246

Phone: (904) 565-2820
 Fax: (904) 565-2830
 Received: 02/13/15 10:11 AM
 Analysis Date: 2/16/2015
 Collected: 2/13/2015

Project: **Pond Sites**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			%	Fibrous	% Non-Fibrous
DP2-2-2 341501398-0010	Debris Pile 2 - Brown Asphalt Shingles	Various Fibrous Homogeneous	8%	Glass	92% Non-fibrous (other) None Detected
DP2-2-3 341501398-0011	Debris Pile 2 - Brown Asphalt Shingles	Various Fibrous Heterogeneous	10%	Glass	90% Non-fibrous (other) None Detected
BDP1-1-1 341501398-0012	Building Debris Pile 1 - Gray Asphalt Shingles	Various Fibrous Homogeneous	8%	Glass	92% Non-fibrous (other) None Detected
BDP1-1-2 341501398-0013	Building Debris Pile 1 - Gray Asphalt Shingles	Various Fibrous Homogeneous	8%	Glass	92% Non-fibrous (other) None Detected
BDP1-1-3 341501398-0014	Building Debris Pile 1 - Gray Asphalt Shingles	Gray/White/Black Fibrous Homogeneous	8%	Glass	92% Non-fibrous (other) None Detected
BDP1-2-1 341501398-0015	Building Debris Pile 1 - Felt Vapor Barrier	Black Fibrous Homogeneous	40%	Cellulose 2% Synthetic	58% Non-fibrous (other) None Detected
BDP1-2-2 341501398-0016	Building Debris Pile 1 - Felt Vapor Barrier	Black Fibrous Homogeneous	40%	Cellulose 2% Synthetic	58% Non-fibrous (other) None Detected
BDP1-2-3 341501398-0017	Building Debris Pile 1 - Felt Vapor Barrier	Black Fibrous Homogeneous	40%	Cellulose 5% Synthetic	55% Non-fibrous (other) None Detected
BDP1-3-1 341501398-0018	Building Debris Pile 1 - HVAC Duct Mastic	White/Black Fibrous Homogeneous	15%	Glass	77% Non-fibrous (other) 8% Chrysotile

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 02/17/2015 07:46:34



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804
Phone/Fax: (407) 599-5887 / (407) 599-9063
<http://www.EMSL.com> orlandolab@emsl.com

EMSL Order: 341501398
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Aerostar SES LLC
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Jacksonville, FL 32246

Phone: (904) 565-2820
Fax: (904) 565-2830
Received: 02/13/15 10:11 AM
Analysis Date: 2/16/2015
Collected: 2/13/2015

Project: Pond Sites

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
BDP1-3-2 341501398-0019	Building Debris Pile 1 - HVAC Duct Mastic				Stop Positive (Not Analyzed)
BDP1-3-3 341501398-0020	Building Debris Pile 1 - HVAC Duct Mastic				Stop Positive (Not Analyzed)
BDP1-4-1 341501398-0021	Building Debris Pile 1 - Gypsum Wallboard	Gray Fibrous Homogeneous	2% Cellulose	85% Gypsum 13% Non-fibrous (other)	None Detected
BDP1-4-2 341501398-0022	Building Debris Pile 1 - Gypsum Wallboard	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
BDP1-4-3 341501398-0023	Building Debris Pile 1 - Gypsum Wallboard	Gray/Black Fibrous Heterogeneous	2% Cellulose 2% Glass	80% Gypsum 16% Non-fibrous (other)	None Detected
BDP1-4-4 341501398-0024	Building Debris Pile 1 - Gypsum Wallboard	Gray Fibrous Homogeneous	2% Cellulose	85% Gypsum 13% Non-fibrous (other)	None Detected
BDP1-4-5 341501398-0025	Building Debris Pile 1 - Gypsum Wallboard	Gray Fibrous Homogeneous	2% Cellulose	85% Gypsum 13% Non-fibrous (other)	None Detected
SLAB-1 341501398-0026	Slab - VSF Rock Pattern	Various Fibrous Heterogeneous		80% Non-fibrous (other)	20% Chrysotile
This is a composite result of both vinyl and backing layer					
SLAB-2 341501398-0027	Slab - VSF Rock Pattern				Stop Positive (Not Analyzed)

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 02/17/2015 07:46:34



EMSL Analytical, Inc.

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EMSL Order: 341501398
CustomerID: AERO54
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ProjectID:

Attn: **John Hubbard**
Aerostar SES LLC
11181 St. Johns Industrial Parkway North

Jacksonville, FL 32246
Project: **Pond Sites**

Phone: (904) 565-2820
Fax: (904) 565-2830
Received: 02/13/15 10:11 AM
Analysis Date: 2/16/2015
Collected: 2/13/2015

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SLAB-3 341501398-0028	Slab - VSF Rock Pattern				Stop Positive (Not Analyzed)

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Project: **Pond Sites**

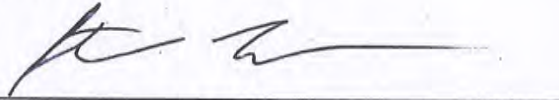
Phone: (904) 565-2820
Fax: (904) 565-2830
Received: 02/13/15 10:11 AM
Analysis Date: 2/16/2015
Collected: 2/13/2015

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

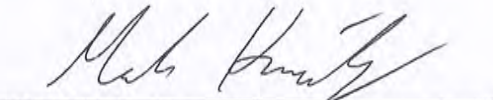
Report Comments:

Sample Receipt Date:: 2/13/2015 Sample Receipt Time: 10:11 AM
Analysis Completed Date: 2/16/2015 Analysis Completed Time: 12:21 PM

Analyst(s):

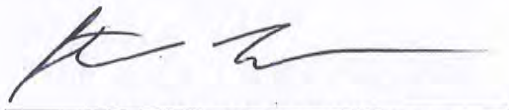


Jonathan Teda PLM (16)



Manolo Hernandez PLM (7)

Samples reviewed and approved by:



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 02/17/2015 07:46:34



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

341501398

Orlando, FL 32804
PHONE: (407) 599-5887
FAX: (407) 599-9063

Company : Aerostar SES LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 11181 St. Johns Industrial Pkwy N		<i>Third Party Billing requires written authorization from third party</i>	
City: Jacksonville	State/Province: FL	Zip/Postal Code: 32246	Country: United States
Report To (Name): John Hubbard		Telephone #: 904-565-2820	
Email Address: jhubbard@aerostar.net		Fax #: 904-565-2830	Purchase Order:
Project Name/Number: M3010.1289 POND SITES		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: FL		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
		Other	
		<input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: 13 FEB 2015	
Samplers Name:		Samplers Signature:	
Sample #	HA #	Sample Location	Material Description
DPI-1-1 → DPI-1-3	DPI-1	DEBRIS PILE 1	BROWN ASPHALT SHINGLES
DPI-2-1 → DPI-2-3	DPI-2	DEBRIS PILE 1	GRAY ASPHALT SHINGLES
DP2-1-1 → DP2-1-2	DP2-1	DEBRIS PILE 2	CHIMNEY FLASHING
DP2-2-1 → DP2-2-3	DP2-2	DEBRIS PILE 2	BROWN ASPHALT SHINGLES
BDPI-1-1 → BDPI-1-3	BDPI-1	BUILDING DEBRIS PILE 1	GRAY ASPHALT SHINGLES
BDPI-2-1 → BDPI-2-3	BDPI-2	BUILDING DEBRIS PILE 1	FELT - VAPOR BARRIER
BDPI-3-1 → BDPI-3-3	BDPI-3	BUILDING DEBRIS PILE 1	HVAC DUCT MASTIC
BDPI-4-1 → BDPI-4-5	BDPI-4	GYPSUM BUILDING DEBRIS PILE 1	GYPSUM WALL BOARD
SLAB-1 → SLAB-3	SLAB	SLAB	VSF ROCK PATTERN
Client Sample # (s): DPI-1-1 → SLAB-1-3		Total # of Samples: 20	
Relinquished (Client): <i>[Signature]</i>		Date: 1010	13 FEB 2015 Time:
Received (Lab): <i>[Signature]</i>		Date: 2/13/15	Time: 10:11am
Comments/Special Instructions:			