

Miami-Dade County Regulatory and
Economic Resources Department and Internal
Services Department

SOIL AND GROUNDWATER ASSESSMENT REPORT

Future Civil & Probate Courthouse
Vicinity of 20 NW 1st Avenue, Miami, Florida
HWR-830

May 2019



Ms. Rebecca Varley, Hydrogeologist 3
Miami-Dade County Department of Regulatory and Economic Resources (RER)
Pollution Control Division
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912

Subject:

Soil and Groundwater Site Assessment Report
Future Civil & Probate Courthouse (HWR-926)
Located in the Vicinity of 20 NW 1st Avenue, Miami, Florida
Work Order: 023-D14/03-ARCADIS

Arcadis U.S., Inc.
8201 Peters Road
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Plantation
Florida 33324
Tel 954 761 3460
Fax 954 761 7939
www.arcadis.com

Dear Ms. Varley:

Arcadis utilized Smart-Sciences, Inc. as a subconsultant to perform soil and groundwater assessment at the above-referenced site. The Soil and Groundwater Site Assessment Report (SAR) is enclosed. Arcadis has reviewed the SAR and concurs with the conclusions of this report. The work was performed in accordance with the associated Miami-Dade County Department of Regulatory and Economic Resources (RER) Work Order.

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

Sincerely,

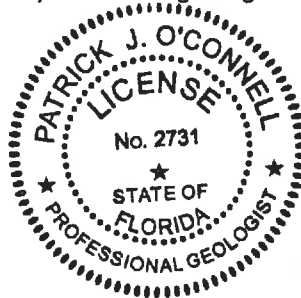
Arcadis U.S., Inc.

Certification

I, Patrick J. O'Connell, P.G. 2731, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide the geologic service contained in this report. I further certify that, in my professional judgment, this report meets the applicable requirements of Chapter 62-780 Florida Administrative Code and was prepared by me or under my responsible charge. Moreover, I certify that Arcadis U.S., Inc. holds an active Geology Business License #GB564 to provide the geologic service.



Patrick O'Connell, P.G.
Senior Geologist
State of Florida License No. 2731
Date: May 20, 2019



Copies: Jorge Perez (Miami-Dade County Internal Services Department), Stephanie Pilar (Arcadis), file

ENVIRONMENT

Date:
May 20, 2019

Contact:
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Our ref:
04613086.0001



May 17, 2019

Patrick O'Connell
Arcadis, U.S.
1500 Gateway Boulevard, Suite 200
Boynton Beach, Florida 33426

**SUBJECT: Soil and Groundwater Assessment Report
Future Civil & Probate Courthouse – HWR-926
Vicinity of 20 NW 1st Avenue
Miami, Miami-Dade County, Florida
Smart-Sciences Project No. 089-007**

Dear Mr. O'Connell:

Smart-Sciences, Inc. (Smart-Sciences) is pleased to submit the enclosed Soil and Groundwater Assessment Report for the above-referenced site.

This report presents the information gathered during the assessment, the methodologies utilized, and evaluation of the information. It also includes our conclusions concerning environmental conditions at the above-referenced property, and our recommendations for further environmental assessment, if necessary. Smart-Sciences recommends that the report be carefully read and considered in its entirety.

We appreciate the opportunity to perform these services for you. If you have any questions regarding this information or if we can provide any additional services, please contact us at (786) 313-3977.

Sincerely,

SMART-SCIENCES, INC.

Gisele L. Colbert
Principal Scientist

Meike de Vringer
Staff Scientist



Soil and Groundwater Assessment Report
– HWR 926
Vicinity of 20 NW 1st Avenue
Miami, Miami-Dade County, Florida

CERTIFICATION

This Soil and Groundwater Assessment Report, for Future Civil & Probate Courthouse located in the vicinity of 20 NW 1st Avenue, Miami, Miami-Dade County, Florida, has been prepared under the responsible charge of the undersigned and has been found to conform to commonly accepted procedures consistent with applicable standards of practice pursuant to Chapter 471 of the Florida Statutes.

I hereby certify that in my professional judgment, the components of this Report satisfy the requirements in accordance with Chapter 62-777 and 63-780 Florida Administrative Code (FAC). Moreover, I certify that Smart-Sciences, Inc. holds an active Certificate of Authorization # CA32053 to provide the service.

Curtis L. Dokken, P.E.
Professional Engineer
State of Florida License No. PE51350

5-16-19
Date:

Gisele Colbert
Principal Scientist
Smart-Sciences, Inc.

Prepared for:

Miami-Dade County Regulatory and
Economic Resources Department
Division of Environmental Resources
Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136

Prepared by:

Smart-Sciences Inc.
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P: 786-313-3977
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Our Ref.:

089-007

Date:

May 2019

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Soil and Groundwater Assessment Report

Prepared for:

Miami-Dade County

Department of Regulatory and Economic Resources
Division of Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136

Future Civil & Probate Courthouse – HWR-926

Vicinity of 20 NW 1st Avenue

Section 1, Township 54 S, Range 41 E

Miami, Miami-Dade County, Florida

May 17, 2019

Prepared by:



SMART-SCIENCES
Environmental Consulting

On behalf of Arcadis



ARCADIS

Design & Consultancy
for natural and
built assets

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1.0 INTRODUCTION

Smart-Sciences, Inc., as a sub-consultant to Arcadis U.S., Inc. was tasked by Miami-Dade County Division of Environmental Resources Management (DERM) and Department of Internal Services (ISD) with Work Order No. 023-D14/03 -Arcadis to perform soil assessment and groundwater assessment at Future Civil & Probate Courthouse (Site). The Site is located in the vicinity of 20 NW 1st Avenue, Miami, Miami-Dade County. The Site location map is presented on **Figure 1**. The Site assessment was completed between April 15 and May 3, 2019 for the purpose of assessing soil and groundwater impacts associated with the Site's former use as a railroad right-of-way.

This report presents the data generated during the advancement and sampling of 101 soil borings and installation of one permanent groundwater monitoring well, the methodologies utilized, and evaluation of the information. It also includes our conclusions concerning environmental conditions at the above referenced property, and our recommendations for further environmental assessment, as necessary. Unless otherwise noted, the referenced property will be referred to as the "Site" throughout this report.

This report was prepared for the Future Civil & Probate Courthouse at the request of the Miami-Dade County DERM, through Arcadis, as part of anticipated development of the Site.

1.1 Site Description

The Site consists of a portion of a single parcel of governmental land currently used as a park with a small parking lot identified by folio number 01-4137-027-0010 totaling \pm 0.57 acres. The Site is located within the City of Miami downtown area near the Miami-Dade County Cultural Center, Courthouse, Public Library, and Government Center. The Site is located northwest of the intersection of West Flagler Street and Northwest 1st Avenue, east of the Government Center Metromover Station, in Section 1, Township 54 South, Range 41 East, at approximately 25.774691° latitude and -80.195819° longitude (**Figure 1**). A 2017 color aerial photograph of the Site with the boundary overlaid is included as **Figure 2**. The Site is used as a small parking lot on the north side, the south side is a park with maintained grass, landscape trees, pavers and metal art structure. The Site is bordered by NW 1st Street to the north followed by the Government Center Metromover Station parking lot. Directly adjacent to the east is NW 1st Avenue followed by Miami-Dade County Courthouse. South is West Flagler Street followed by Miami-Dade County Bus Station. To the west is the developed area of the same parcel which is used occupied by the Miami-Dade Public Library and History Miami Museum.

1.2 Project Background

Smart-Sciences, as a sub-consultant to Arcadis, performed for Miami-Dade County a Phase I Environmental Site Assessment (ESA) dated October 29, 2018 in conformance with the scope and

limitations of ASTM Practice E 1527-13 for the Site. Miami-Dade County Environmental Monitoring and Restoration Division (EMES) reviewed the Phase I ESA and issued a memorandum dated November 29, 2018 stating that the Site's historical usage as a railroad right-of-way constitutes a REC. Moreover, an evaluation of Sanborn maps provided indicated that potential sources of contamination (e.g. gas station, wood yard and fertilizer warehouse) existed immediately to the west of the Site. Therefore, EMES requested a Phase II ESA to be completed in order to more fully address concerns for potential contamination at the Site, which includes the installation of one shallow groundwater monitoring well in the western portion of the Site and a representative number of soil borings throughout the Site to assess the historic railroad lines.

2.0 SOIL ASSESSMENT METHODOLOGY

2.1 Soil Boring Installation and Sampling Activities

Due to the Site's location underneath the Metromover tracks which run approximately 60 feet overhead along the western portion, Smart-Sciences coordinated prior to any sampling activities with Miami-Dade County Department of Transportation and Public Works (DTPW) to obtain a permit for Access to Transit Metrorail/Metromover/Busway and to schedule a DTPW Construction and Facility Monitor (Spotter) to be present at the Site during sampling within 30 feet of the Metromover guideway. The permit (MDT-R/W-2019-0723) authorizing Smart-Sciences to work near the Metromover Corridor is included as **Appendix A**. On April 15 through April 17, 2019, Smart-Sciences observed JAE Environmental, Inc advance 101 soil borings (CHSB-01 to CHSB-101). Prior to performing drilling activities, Sunshine 811 was contacted to mark out public utilities, and on April 15, 2019, GPRS, LLC a private utility locate service, conducted a subsurface utility locate survey using both electromagnetic induction (EM) and ground penetrating radar (GPR). The purpose of the survey was to determine the presence of unmarked utilities in the areas of the proposed drilling locations. Several major underground utilities were located within the area of the proposed soil boring locations; therefore, several soil boring locations were subsequently adjusted to avoid these utilities. Each grid contained the total number of proposed borings. **Figure 3** illustrates the soil boring locations as performed by Smart-Sciences during the April 2019 sampling event.

A total of 101 soil borings were advanced by hand auger to two feet below ground surface (bgs). The soil samples from each soil boring were collected in accordance with FDEP-SOP-001/01 FS 3000. The 0.57-acre was split into 15 areas. In 13 of the 15 areas seven soil borings were installed, and two (2) areas of the 15 areas (located on the eastern section of the site) five soil borings were installed. Soil samples were collected from 0 to 0.5 feet bgs and 0.5 to 2 feet bgs. Two composite soil samples were generated for each of the 15 grids from two intervals (0-0.5 feet and 0.5-2.0 feet) for a total of 30 composite soil samples (CHSBC-01 to CHSBC-15). The composite soil samples were placed in pre-cleaned sample containers and transported to Pace Analytical for analysis. All composite soil samples (30) were analyzed for Polynuclear

Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), and 4-RCRA metals (Arsenic, Cadmium, Chromium, and Lead) using EPA Methods 8270, FL-PRO, and 6010, respectively. An Organic Vapor Analyzer (OVA) was used in the field to measure Volatile Organic Compounds (VOCs) for each of the 101 soil borings (both intervals). Based on the highest OVA readings from individual sample locations, a total of 10 composite soil samples representing the respective grids and depths were additionally analyzed for cresols, pentachlorophenol, and phenol using EPA Method 8270 (full list). **Table 2** summarizes the 10 highest OVA readings per soil boring and their respective composite sample.

2.2 Site Specific Lithology

The shallow subsurface lithology mainly consisted of shell rock fill material. The groundwater table was not encountered during the soil borings. On April 15 through April 17, 2019 site-specific lithology was characterized at 101 soil borings to a total depth of two feet. Soil Boring Logs are attached as **Appendix B**. Site lithology from ground surface to 0.5 feet bgs on the asphalted area was mainly comprised of shell rock fill, while on the green area was comprised of dark brown / dark gray medium fine sand, observed in several borings. Lithology from 0.5 feet to two feet bgs is generally comprised of shell rock fill material with tan sand with rock fragments.

3.0 GROUNDWATER ASSESSMENT METHODOLOGY

3.1 Monitoring Well Installation

Miami-Dade County requested one permanent monitoring well to be installed within the northwestern portion of the Site, in close proximity to the western property line, to assess potential groundwater contamination from an off-site contamination source to the west, identified in the Phase I ESA. On May 2, 2019, one (1) permanent groundwater monitoring well (CHMW-01) was installed by JAEE Environmental, Inc using a track-mounted DPT rig equipped with hollow stem augers. Several major underground utilities as well as Metromover underground structural foundations were located in close proximity to proposed CHMW-1, and placement of the well was determined in the field based on clearance of the surrounding underground utilities while staying close to the location requested by the Miami-Dade County. **Figure 4** illustrates the location of CHMW-01 as installed on May 2, 2019.

Prior to installation of the groundwater monitoring well, drilling equipment and materials that may contact groundwater (e.g., development pump intake hose) were decontaminated. Groundwater was encountered at approximately 6.58 feet bgs. The monitoring well was installed to a depth of approximately 15 feet bgs (approximately 8.42 feet below the water table). The monitoring well was constructed with 1.5-inch diameter Schedule 40 PVC, with approximately five (5) feet of solid riser followed by 10 feet of 0.010-slotted well screen from five (5) to 15 feet bgs. The prepacked well screen contained a 20/30 sand filter

pack. The annulus of the borehole was filled with 20/30 filter sand from the total depth to approximately one foot above the well screen, followed by a 2-foot 30/65 fine sand seal, and Type I-II Portland cement completed the borehole to grade. The permanent monitoring well (CHMW-01) was finished with a manhole cover and concrete pad (1.5 x 1.5 foot) fitted with a watertight well cap. After installation, the newly-installed groundwater monitoring well was developed with a peristaltic pump to remove fine grained sediments until purge water was relatively clear and free of sediment. **Appendix C** includes the Groundwater Monitoring Well Construction and Development Log and Well Permit for the monitoring well.

3.2 Groundwater Sampling and Analysis

Prior to groundwater sampling activities performed on May 3, 2019, a depth-to-water (DTW) measurement was collected from the newly installed monitoring well for calculating purging volumes. The well was purged and sampled in general accordance with FDEP SOP 001/01 FS2200 using a peristaltic pump. On May 3, 2019, groundwater samples were collected from monitoring well CHMW-01 for laboratory analysis. Upon collection, the groundwater samples were placed into pre-cleaned sample containers and transported to Pace Analytical for analysis of VOCs (including Isopropyl benzene), PAHs, TRPH, arsenic, nitrates, ammonia, and organochlorine and organophosphorus pesticides using EPA Method 8270, FL-PRO, 6010, 353.2, 8021, 8081, and 8041 respectively. **Appendix D** includes a copy of the Groundwater Sampling Log from the sampling event. Chain of custody documentation accompanied the samples to the laboratory.

4.0 RESULTS

4.1 Soil Assessment Results

The laboratory soil analytical results for composite soil samples CHSBC-01 to CHSBC-15 (30 total) are summarized in **Table 1** and compared to residential and commercial/industrial direct exposure soil cleanup target levels (SCTLs) listed in Table II of Chapter 62-777, Florida Administrative Code (F.A.C.). A summary of analytical results from 0-0.5 feet bgs and 0.5-2.0 feet bgs sampling intervals is provided in the following.

4.1.1 4-RCRA Metals

0-0.5 Feet Interval:

- Concentrations of arsenic were reported above the FDEP Residential Direct Exposure SCTL of 2.1 mg/kg in the following four (4) composite samples: CHSBC-01, CHSBC-02, CHSBC-03, and CHSBC-14.

- Concentrations of arsenic were reported above the FDEP Commercial/Industrial Direct Exposure SCTL of 12 mg/kg in the following 11 composite samples: CHSBC-04 through CHSBC-13, and CHSBC-15.
- Concentrations of arsenic were reported above the 2014 Miami-Dade County Anthropogenic Background Study value of 3.5 mg/kg in the following 14 composite samples: CHSBC-01, CHSBC-02, CHSBC-04 through CHSBC-15.
- CHSBC-05 at the 0-0.5 feet interval contained cadmium concentrations exceeding its leachability limit of 7.5 mg/kg, but below Residential SCTL of 82 mg/kg, chromium concentrations exceeding its leachability limit of 38 mg/kg and above Residential SCTL of 210 mg/kg, and lead concentrations above Residential SCTL of 400 mg/kg.

0.5-2.0 Feet Interval:

- Concentrations of arsenic were reported above the FDEP Residential Direct Exposure SCTL of 2.1 mg/kg in composite sample CHSBC-14.
- Concentrations of arsenic were reported above the FDEP Commercial/Industrial Direct Exposure SCTL of 12 mg/kg in the following 14 composite samples: CHSBC-01 through CHSBC-13, and CHSBC-15.
- Concentrations of arsenic were reported above the 2014 Miami-Dade County Anthropogenic Background Study value of 2.1 mg/kg in all 15 composite samples (CHSBC-01 through CHSBC-15).

Figure 5A and **Figure 5B** summarize the 4-RCRA metals concentrations per composite sample for each of the sampling grids.

4.1.2 Polynuclear Aromatic Hydrocarbons

0-0.5 Feet Interval:

- Concentrations of benzo(a)anthracene were reported above the Commercial/Industrial SCTL of 0.07 mg/kg in all composite samples (CHSBC-01 through CHSBC-15). The following four (4) composite samples also exceeded its leachability limit of 0.8 mg/kg: CHSBC-01, CHSBC-05, CHSBC-08, and CHSBC-11.
- Concentrations of benzo(a)pyrene were reported above the Residential SCTL of 0.1 mg/kg in the following ten (10) composite samples: CHSBC-02, CHSBC-03, CHSBC-06, CHSBC-07, CHSBC-09, CHSBC-10, CHSBC-12 through CHSBC-15. Sample CHSBC-05 also exceeded its leachability limit of 8 mg/kg.
- Concentrations of benzo(a)pyrene were reported above the Commercial/Industrial SCTL of 0.7 mg/kg in the following five (5) composite samples: CHSBC-01, CHSBC-04, CHSBC-05, CHSBC-08, and CHSBC-11.

- Concentrations of benzo(b)fluoranthene were reported above Commercial/Industrial SCTL of 0.07 mg/kg in all composite samples (CHSBC-01 through CHSBC-15). Samples CHSBC-05 and CHSBC-08 also exceeded its leachability limit of 2.4 mg/kg.
- Concentrations of benzo(k)fluoranthene and chrysene were reported above the Commercial/Industrial SCTL of 0.007 mg/kg and 0.0007 mg/kg, respectively, in all composite samples (CHSBC-01 through CHSBC-15).
- Concentrations of dibenz(a,h)anthracene were reported above the Residential SCTL of 0.1 mg/kg in the three (3) following composite samples: CHSBC-01, CHSBC-08, and CHSBC-11.
- Concentrations of dibenz(a,h)anthracene were reported above the Commercial/Industrial SCTL of 0.7 mg/kg in composite sample CHSBC-05, which also exceeded its leachability limit of 0.7 mg/kg.
- Concentrations of indeno(1,2,3-cd) pyrene were reported above the Commercial/Industrial SCTL of 0.07 mg/kg in all composite samples (CHSBC-01 through CHSBC-15).

0.5-2.0 Feet Interval:

- Concentrations of benzo(a)anthracene were reported above the Commercial/Industrial SCTL of 0.07 mg/kg in all composite samples (CHSBC-01 through CHSBC-15). The following two (2) composite samples also exceeded its leachability limit of 0.8 mg/kg: CHSBC-05 and CHSBC-13.
- Concentrations of benzo(a)pyrene were reported above the Residential SCTL of 0.1 mg/kg in the following 11 composite samples: CHSBC-01 through CHSBC-04, CHSBC-06, CHSBC-07, CHSBC-08, CHSBC-10, CHSBC-12, CHSBC-14, and CHSBC-15.
- Concentrations of benzo(a)pyrene were reported above the Commercial/Industrial SCTL of 0.7 mg/kg in the following three (3) composite samples: CHSBC-05, CHSBC-11, and CHSBC-13.
- Concentrations of benzo(b)fluoranthene were reported above Commercial/Industrial SCTL of 0.07 mg/kg in all composite samples (CHSBC-01 through CHSBC-15).
- Concentrations of benzo(k)fluoranthene and chrysene were reported above the Commercial/Industrial SCTL of 0.007 mg/kg and 0.0007 mg/kg, respectively, in all composite samples (CHSBC-01 through CHSBC-15).
- Concentrations of dibenz(a,h)anthracene were reported above the Residential SCTL of 0.1 mg/kg in the following five (5) composite samples: CHSBC-05, CHSBC-06, CHSBC-08, CHSBC-11, and CHSBC-13.
- Concentrations of indeno(1,2,3-cd) pyrene were reported above the Residential SCTL of 0.01 mg/kg in the following two composite samples: CHSBC-04 and CHSBC-09.
- Concentrations of indeno(1,2,3-cd) pyrene were reported above the Commercial/Industrial SCTL of 0.07 mg/kg in the following 13 composite samples: CHSBC-01, CHSBC-02, CHSBC-03, CHSBC-05 through CHSBC-08, CHSBC-10 through CHSBC-15.

Figure 6A and **Figure 6B** summarize the concentrations of PAHs in exceedance per composite sample for each of the sampling grids.

4.1.3 Total Recoverable Petroleum Hydrocarbons

0-0.5 Feet Interval:

- Concentrations of TRPH were reported above the Residential SCTL of 460 mg/kg in the following four (4) composite samples: CHSBC-02 through CHSBC-05. These samples also exceeded its leachability limit of 340 mg/kg.

0.5-2.0 Feet Interval:

- Concentrations of TRPH were reported below the Residential SCTL of 460 mg/kg in all composite samples (CHSBC-01 through CHSBC-15).

Figure 7A and **Figure 7B** summarize the concentration of TRPH per composite sample for each of the sampling grids.

4.1.4 Cresols, Pentachlorophenol, and Phenols

Based on OVA readings in the field, 10 out of 30 composite samples were additionally analyzed for cresols, pentachlorophenol, and phenol. A total of 7 out of 10 samples were located in the 0–0.5 feet interval (CHSBC-05, CHSBC-06, CHSBC-07, CHSBC-10, CHSBC-11, CHSBC-12, and CHSBC-15) and 3 out of 10 samples were located in the 0.5–2.0 feet interval (CHSBC-03, CHSBC-04, and CHSBC-07).

0-0.5 Feet Interval:

- Phenol concentrations were reported below the Residential SCTL of 500 mg/kg in all composite samples (CHSBC-05, CHSBC-06, CHSBC-07, CHSBC-10, CHSBC-11, CHSBC-12, and CHSBC-15). Sample CHSBC-05 exceeded its leachability limit of 0.05 mg/kg.
- Concentrations of 3&4-methylphenol(m&p-cresol) were reported below the Residential SCTL of 2,900 mg/kg and 300 mg/kg, respectively, in all composite samples (CHSBC-05, CHSBC-06, CHSBC-07, CHSBC-10, CHSBC-11, CHSBC-12, and CHSBC-15). Sample CHSBC-10 exceeded its leachability limit of 0.03 mg/kg (4-methylphenol).
- Pentachlorophenol concentrations were reported below the Residential SCTL of 7.2 mg/kg in all composite samples (CHSBC-05, CHSBC-06, CHSBC-07, CHSBC-10, CHSBC-11, CHSBC-12, and CHSBC-15).
- Concentrations of 2-methylphenol(o-cresol) were below the Residential SCTL of 2,900 mg/kg in all samples (CHSBC-05, CHSBC-06, CHSBC-07, CHSBC-10, CHSBC-11, CHSBC-12, and CHSBC-15).

0.5-2.0 Feet Interval:

- Phenol concentrations were reported below the Residential SCTL of 500 mg/kg in all composite samples (CHSBC-03, CHSBC-04, and CHSBC-07). Sample CHSBC-04 exceeded its leachability limit of 0.05 mg/kg.

- Concentrations of 3&4-methylphenol(m&p-cresol) were reported below the Residential SCTL of 2,900 mg/kg and 300 mg/kg, respectively, in all composite samples (CHSBC-03, CHSBC-04, and CHSBC-07), but all samples exceeded its leachability limit of 0.03 mg/kg (4-methylphenol).
- Pentachlorophenol concentrations were reported below the Residential SCTL of 7.2 mg/kg in all composite samples (CHSBC-03, CHSBC-04, and CHSBC-07).
- Concentrations of 2-methylphenol(o-cresol) were below the Residential SCTL of 2,900 mg/kg in all samples (CHSBC-03, CHSBC-04, and CHSBC-07).

Figure 8A and **Figure 8B** summarize the concentration of phenols and cresols in exceedance per additionally analyzed composite sample.

The laboratory soil analytical report and chain of custody documentation are included in **Appendix E**.

4.2 Groundwater Assessment Results

The groundwater laboratory analysis from the May 3, 2019 sampling event indicates the concentration of arsenic (37.0 ug/L) is above Groundwater Cleanup Target Levels (GCTL) of 10 ug/L, but below Natural Attenuation Default Concentration (NADC) of 100 ug/L. All other analytes were detected in concentrations below GCTL. **Table 3** summarizes the groundwater analytical results along with the FDEP GCTL and FDEP NADC. **Figure 9** depicts the concentrations of arsenic in relation to the monitoring well. The laboratory groundwater analytical report and chain of custody documentation are included in **Appendix F**.

5.0 WASTE MANAGEMENT

Investigation Derived Waste (IDW) consisting of development and purge water generated during well development, was containerized in one 55-gallon steel, FDOT-approved drum and stored within the northwestern portion of the Site. Based on the laboratory analytical results of the groundwater samples collected at the Site, the IDW drum of water was deemed nonhazardous and will be properly disposed. Smart-Sciences will provide disposal documentation under separate cover.

6.0 SUMMARY / CONCLUSIONS

Based on the results of the soil and groundwater assessment performed at the Site, State cleanup target levels in Chapter 62-777 F.A.C., cleanup criteria in Chapter 62-780 F.A.C., and Chapter 24, Miami-Dade County Code, the following can be concluded:

- The Site is currently used as a public park with a small parking lot.

- On April 15 through April 17, 2019, a total of 101 soil borings were performed and a total of 30 composite soil samples were generated from two intervals, which were analyzed for PAHs, TRPH, and 4-RCRA metals (Arsenic, Cadmium, Chromium, and Lead). A total of 10 out of 30 composite samples were additionally analyzed for cresols, pentachlorophenol, and phenol.
- Site lithology from ground surface to 0.5 feet bgs on the asphalted area was mainly comprised of shell rock fill, while on the green area was comprised of dark brown / dark gray medium fine sand, observed in several borings. Lithology from 0.5 feet to two feet bgs is generally comprised of shell rock fill material with tan sand with rock fragments.
- Concentrations of arsenic for 5 out of 30 composite soil samples were above the FDEP Residential SCTL and 25 out of 30 soil samples were above the Commercial/Industrial SCTL. At the 0-0.5 ft interval, 14 out of 15 samples were above the 2014 Miami-Dade County Anthropogenic Background Study value of 3.5 mg/kg. All soil samples at the 0.5-2.0 ft interval were above the 2014 Miami-Dade County Anthropogenic Background Study value of 2.1 mg/kg. CHSBC-05 (0-0.5') contained cadmium concentrations exceeding its leachability limit, chromium concentrations exceeding its leachability limit and above Residential SCTL, and lead concentrations above Residential SCTL.
- Benzo(a)pyrene was reported above Residential SCTL in 21 out of 30 soil samples and above Commercial/Industrial SCTL in 8 out of 30 soil samples, with one sample exceeding its leachability limit. Benzo(a)anthracene was reported above Commercial/Industrial SCTL in all samples, and 6 samples additionally exceeded its leachability limit. Benzo(b)fluoranthene was reported above Commercial/Industrial SCTL in all samples and two samples additionally exceeded its leachability limit. Benzo(k)fluoranthene and chrysene were above Commercial/Industrial SCTL in all samples. Dibenz(a,h)anthracene was reported above Residential SCTL in 7 samples and one sample was above Commercial/Industrial SCTL and additionally exceeded its leachability limit. Indeno(1,2,3-cd) pyrene was reported above Residential SCTL in two samples and above Commercial/Industrial SCTL in 28 samples.
- Concentrations of TRPH were reported above Residential SCTL in four samples, which additionally exceeded its leachability limit.
- Based on OVA readings in the field, 10 out of 30 composite samples were additionally analyzed for cresols, pentachlorophenol, and phenol. Phenol concentrations of two samples exceeded its leachability limit. Concentrations of 3&4-methylphenol(m&p-cresol) in four samples exceeded its leachability limit (4-methylphenol).
- On May 2, 2019, one permanent monitoring well (CHMW-01) was installed via DPT along the western Site boundary.

- On May 3, 2019, groundwater samples were obtained from monitoring well CHMW-01 for laboratory analysis of VOCs (including Isopropyl benzene), PAHs, TRPH, arsenic, nitrates, ammonia, and organochlorine and organophosphorus pesticides.
- The concentration of arsenic in groundwater sampled from CHMW-01 on May 3, 2019 was above GCTL of 10 ug/L but below NADC of 100 ug/L. All other analytes were detected at concentrations below GCTL.
- One drum of IDW was generated during the well drilling and groundwater sampling activities. The groundwater drum was characterized as nonhazardous and will be properly disposed.

7.0 **RECOMMENDATIONS**

Based on the site assessment conclusions, State cleanup target levels in Chapter 62-777 F.A.C., cleanup criteria in Chapter 62-780 F.A.C., and Chapter 24, Miami-Dade County Code, the following is recommended:

- Source removal is recommended throughout the entire Site due to arsenic and PAHs concentrations above Direct Exposure SCTLs within all (arsenic) to nearly all (PAHs) sampling grids and sampling intervals.
- Smart-Sciences recommends resampling of CHMW-01 for groundwater arsenic concentration as well as installing additional groundwater monitoring wells within the Site to further delineate the arsenic groundwater plume.

VCDNGU

Table 1

Soil Analytical Results
APPENDIX 1E

Facility Name: Future Civil and Probate Courthouse

Facility ID: HWR-926

Analytes	Table II, Ch. 62-777 FAC Soil Cleanup Target Levels			Sample Date	4/17/19	4/17/19	4/17/19	4/17/19	4/16/19	4/16/19	4/15/19	4/16/19	4/16/19	4/16/19	4/17/19	4/17/19	4/17/19	4/17/19	4/15/19	4/15/19	4/15/19	4/15/19	4/15/19	4/15/19	4/17/19	4/17/19	4/17/19	4/17/19	4/15/19	4/15/19	4/15/19	4/15/19	4/15/19	4/15/19	4/15/19	
	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	Sample Location	CHSBC 01 (0-0.5')	CHSBC 01 (0.5-2')	CHSBC 02 (0-0.5')	CHSBC 02 (0.5-2')	CHSBC 03 (0-0.5')	CHSBC 03 (0.5-2')	CHSBC 04 (0-0.5')	CHSBC 04 (0.5-2')	CHSBC 05 (0-0.5')	CHSBC 05 (0.5-2')	CHSBC 06 (0-0.5')	CHSBC 06 (0.5-2')	CHSBC 07 (0-0.5')	CHSBC 07 (0.5-2')	CHSBC 08 (0-0.5')	CHSBC 08 (0.5-2')	CHSBC 09 (0-0.5')	CHSBC 09 (0.5-2')	CHSBC 10 (0-0.5')	CHSBC 10 (0.5-2')	CHSBC 11 (0-0.5')	CHSBC 11 (0.5-2')	CHSBC 12 (0-0.5')	CHSBC 12 (0.5-2')	CHSBC 13 (0-0.5')	CHSBC 13 (0.5-2')	CHSBC 14 (0-0.5')	CHSBC 14 (0.5-2')	CHSBC 15 (0-0.5')	CHSBC 15 (0.5-2')		
				Units																																
EPA 6010																																				
Arsenic		2.1	12	mg/kg	4.80	<i>41.5</i>	5.9	<i>89.8</i>	2.2	<i>51.5</i>	16.5	<i>82.3</i>	177	<i>53.3</i>	14.1	<i>103</i>	32.4	<i>106</i>	99.2	<i>69.4</i>	20.0	<i>15.8</i>	17.6	<i>46.4</i>	48.4	<i>63.7</i>	68.6	<i>190</i>	75.6	<i>81.3</i>	11.4	<i>5.4</i>	26.8	<i>31.7</i>		
Cadmium	7.5	82	1,700	mg/kg	0.30	0.46	0.11	0.25	0.057	0.35	0.12	0.34	10.4**	0.79	0.46	0.32	0.21	0.16	0.32	0.15	0.29	0.20	0.23	0.65	0.41	0.30	0.29	0.52	0.36	0.22	0.17	0.16	0.58	0.29		
Chromium	38	210	470	mg/kg	12.3	21.0	5.2	6.3	5.2	5.6	6.6	9.3	253**	18.8	16.4	10.6	7.8	6.4	10.1	5.6	12.9	11.4	9.8	13.5	10.8	9.6	11.1	13.2	14.9	5.7	9.9	5.3	13.3	6.7		
Lead		400	1,400	mg/kg	26.5	160	23.6	143	10.0	86.4	34.9	173	1020	174	48.5	177	64.2	114	89.3	69.9	113	253	42.3	232	97.7	177	139	303	93.2	156	36.1	54.7	179	101		
EPA 8270																																				
1-Methylnaphthalene	3.1	200	1,800	mg/kg	0.057	0.015 U	0.068 U	0.048 U	0.069 U	0.047	0.083 U	0.047 U	0.57 U	0.10 I	0.058 U	0.13	0.058	0.25	0.18 I	0.15 I	0.055 U	0.049 U	0.020 I	0.050 U	0.050	0.16 I	0.054 U	0.054 U	0.044 I	0.076 U	0.031 I	0.049	0.067 U	0.048 U		
2,3,4,6-Tetrachlorophenol	3.2	2,100	30,000	mg/kg						1.5 U		0.044 U	0.059 U		0.049 U		0.043 U	0.062 U				0.19 U		0.050 U									0.044 U			
2,4,5-Trichlorophenol	0.07	7,700	130,000	mg/kg						0.25 U		0.0074 U	0.0098 U		0.0082 U		0.0072 U	0.010 U				0.032 U		0.0083 U		0.0094 U							0.0074 U			
2,4,6-Trichlorophenol	0.06	70	230	mg/kg						0.34 U		0.010 U	0.013 U		0.011 U		0.0099 U	0.014 U				0.043 U		0.011 U		0.013 U							0.010 U			
2,4-Dichlorophenol	0.003	190	2,400	mg/kg						0.28 U		0.0083 U	0.011 U		0.0092 U		0.0081 U	0.012 U				0.035 U		0.0094 U		0.011 U						0.0083 U				
2,4-Dimethylphenol	1.7	1,300	18,000	mg/kg						0.29 U		0.0084 U	0.011 U		0.0094 U		0.0082 U	0.012 U				0.036 U		0.0096 U		0.011 U						0.0085 U				
2,4-Dinitrophenol	0.06	110	1,200	mg/kg						3.8 U		0.11 U	0.15 U		0.12 U		0.11 U	0.16 U				0.48 U		0.13 U		0.14 U						0.11 U				
2,6-Dichlorophenol	0.007	220	3,600	mg/kg						0.22 U		0.0064 U	0.0085 U		0.0071 U		0.0062 U	0.0090 U				0.027 U		0.0073 U		0.0081 U						0.0064 U				
2-Chlorophenol	0.7	130	860	mg/kg						0.27 U		0.0080 U	0.011 U		0.0089 U		0.0078 U	0.011 U				0.034 U		0.0091 U		0.010 U						0.0080 U				
2-Methylnaphthalene	8.5	210	2,100	mg/kg	0.071	0.014 U	0.066 U	0.046 U	0.067 U	0.052	0.081 U	0.046 U	0.56 U	0.12 I	0.057 U	0.15	0.067	0.31	0.21 I	0.18 I	0.053 U	0.048 U	0.024 I	0.048 U	0.054	0.18 I	0.053 U	0.052 U	0.049	0.073 U	0.036 I	0.057	0.065 U	0.047 U		
2-Methylphenol(o-Cresol)	0.3	2,900	31,000	mg/kg						0.30 U		0.024 I	0.012 U		0.0099 U		0.0087 U	0.013 U				0.038 U		0.010 U		0.011 U						0.0090 U				
2-Nitrophenol				mg/kg						2.0 U		0.059 U	0.079 U		0.066 U		0.058 U	0.083 U				0.25 U		0.067 U		0.075 U						0.059 U				
3&4-Methylphenol(m&p Cresol)	0.3; 0.03	2,900; 300	33,000; 3,400	mg/kg						0.29** <i>U</i>		0.037** <i>I</i>	0.011 U		0.0094 U		0.0083 U	0.058** <i>I</i>				0.036** <i>U</i>		0.020 I		0.022 I						0.0085 U				
4,6-Dinitro-2-methylphenol		8.4	180	mg/kg						4.1 U		0.12 U	0.16 U		0.13 U		0.12 U	0.17 U				0.52 U		0.14 U		0.15 U					0.12 U					
4-Chloro-3-methylphenol	0.4	600	8,000	mg/kg						0.25 U		0.0074 U	0.0099 U		0.0083 U		0.0073 U	0.010 U				0.032 U		0.0084 U		0.0095 U						0.0074 U				
4-Nitrophenol	0.3	560	7,900	mg/kg						2.7 U		0.080 U	0.11 U		0.088 U		0.078 U	0.11 U				0.34 U		0.091 U		0.10 U						0.080 U				
Acenaphthene	2.1	2,400	20,000	mg/kg	0.013 U	0.013 U	0.060 U	0.042 U	0.091 I	0.012 U	0.073 U	0.042 U	0.51 U	0.051 U	0.051 U	0.014 I	0.013 U	0.013 U	0.075 U	0.064 U	0.048 U	0.043 U	0.014 U	0.044 U	0.043	0.065 U	0.048 U	0.047 U	0.019 I	0.24	0.013 U	0.013 U	0.059 U	0.045 I		
Acenaphthylene	27	1,800	20,000	mg/kg	0.27	0.012 U	0.054 U	0.038 U	0.055 U	0.026 I	0.066 U	0.038 U	0.46 U	0.17	0.047 U	0.17	0.092	0.17	0.65	0.18 I	0.043 U	0.039 U	0.040 I	0.040 U	0.092	0.13 I	0.043 U	0.043 U	0.046	0.060 U	0.017 I	0.016 I	0.053 U	0.039 U		
Anthracene	2,500	21,000	300,000	mg/kg	0.30	0.026 I	0.14 I	0.043 U	0.18 I	0.038 I	0.15 I	0.043 U	0.61 I	0.15 I	0.053 U	0.21	0.068	0.11	0.69	0.16 I	0.087 I	0.044 U	0.063	0.045 U	0.19	0.16 I	0.049 U	0.049 U	0.087	0.49	0.030 I	0.013 U	0.10 I	0.11 I		
Benzo(a)anthracene	0.8	0.01	0.07	mg/kg	1.1**	0.28	0.65	0.13	0.38	0.23	0.80	0.14	8.7**	1.0**	0.17	0.65	0.36	0.31	1.6**	0.44	0.42	0.070 I	0.28	0.11 I	0.95**	0.67	0.19	0.21	0.40	2.0**	0.14	0.088	0.37	0.43		
Benzo(a)pyrene	8	0.1	0.7	mg/kg	0.96	0.31	0.61	0.14	0.22	0.25	0.75	0.13	9.1**	1.2	0.17	0.69	0.46	0.37	2.0	0.54	0.44	0.066 I	0.29	0.12 I	1.0	0.71	0.20	0.22	0.45	1.8	0.16	0.14	0.38	0.39		
Benzo(b)fluoranthene	2.4	0.01	0.07	mg/kg	1.7	0.54	1.0	0.29	0.40	0.37	1.4	0.22	14.4**	1.9	0.23	1.1	0.81	0.62	2.7**	0.73	0.62	0.10 I	0.43	0.17	1.3	0.93	0.27	0.30	0.62	2.3	0.23	0.18	0.53	0.52		
Benzo(g,h,i)perylene	32,000	2,500	52,000	mg/kg	0.43	0.19	0.31	0.083 I	0.11 I	0.15	0.42	0.067 I	5.6	0.72	0.13 I	0.51	0.25	0.34	1.6	0.49	0.37	0.057 I	0.25	0.098 I	0.77	0.52	0.16	0.19	0.34	1.3	0.12	0.10	0.25	0.26		
Benzo(k)fluoranthene	24	0.001	0.007	mg/kg	0.67	0.19	0.45	0.10 I	0.16 I	0.18	0.49	0.077 I	6.1	0.82	0.10 I	0.37	0.29	0.24	0.93	0.28	0.24	0.042 I	0.16	0.091 I	0.59	0.44	0.12 I	0.12 I	0.22	0.89	0.091	0.083	0.21	0.20		
Chrysene	77	0.0001	0.0007	mg/kg	1.2	0.40	0.86	0.20	0.56	0.31	1.2	0.18	11.9	1.5	0.17	0.60	0.47	0.30	2.1	0.58	0.53	0.090 I	0.34	0.15	0.90	0.60	0.18	0.48	2.2	0.18	0.13	0.42	0.47			
Dibenz(a,h)anthracene	0.7	0.1	0.7	mg/kg	0.14	0.044	0.088 I	0.028 U	0.040 U	0.037	0.081 I	0.028 U	1.3 I**	0.16	0.034 U	0.14	0.066	0.080	0.37	0.11 I	0.094 I	0.029 U	0.062	0.029 U	0.18	0.13 I	0.038 I	0.048 I	0.080	0.28	0.028 I	0.				

Table 2APPENDIX 1E
OVA ReadingsFacility Name: Future Civil and Probate Courthouse
Facility ID: HWR-926

Individual Soil Boring	Composite Sample	Depth Interval	OVA (ppm)
CHSB-13	CHSBC-05	0-0.5'	2.56
CHSB-62	CHSBC-06	0-0.5'	8.74
CHSB-40	CHSBC-07	0-0.5'	12.97
CHSB-68	CHSBC-10	0-0.5'	14.64
CHSB-93	CHSBC-11	0-0.5'	2.9
CHSB-99	CHSBC-12	0-0.5'	45.09
CHSB-91	CHSBC-15	0-0.5'	6.65
CHSB-06	CHSBC-03	0.5-2'	7.15
CHSB-32	CHSBC-04	0.5-2'	2.7
CHSB-60	CHSBC-07	0.5-2'	7.33

Table 3

**Groundwater
Analytical Results**

Future Civil and Probate Courthouse
Facility ID: HWR-926

Analytes	Table I, Ch. 62-777, FAC Groundwater Cleanup Target Levels	Table V, Ch. 62-777, FAC Natural Attenuation Default Source Concentrations	Sample Date	5/3/2019
			Sample Location (Units)	CHMW-01
EPA 350.1				
Nitrogen, Ammonia	2,800	28,000	ug/L	69
EPA 353.2				
Nitrogen, Nitrate	10,000	100,000	ug/L	230
EPA 6010				
Arsenic	10	100	ug/L	37.0
Cadmium	5	50	ug/L	0.33 U
Chromium	100	1,000	ug/L	1.7 U
Lead	15	150	ug/L	4.6 U
EPA 8260				
1,1,1,2-Tetrachloroethane	1.3	130	ug/L	0.32 U
1,1,1-Trichloroethane	200	2,000	ug/L	0.30 U
1,1,2,2-Tetrachloroethane	0.2	20	ug/L	0.20 U
1,1,2-Trichloroethane	5	500	ug/L	0.30 U
1,1-Dichloroethane	70	700	ug/L	0.34 U
1,1-Dichloroethene	7	70	ug/L	0.27 U
1,1-Dichloropropene			ug/L	0.31 U
1,2,3-Trichlorobenzene	70	700	ug/L	0.34 U
1,2,3-Trichloropropane	0.02	2	ug/L	1.1 U
1,2,3-Trimethylbenzene	10	100	ug/L	0.17 U
1,2,4-Trichlorobenzene	70	700	ug/L	0.32 U
1,2,4-Trimethylbenzene	10	100	ug/L	0.24 U
1,2-Dichlorobenzene	600	6,000	ug/L	0.29 U
1,2-Dichloroethane	3	300	ug/L	0.27 U
1,2-Dichloropropane	5	500	ug/L	0.23 U
1,3,5-Trimethylbenzene	10	100	ug/L	0.24 U
1,3-Dichlorobenzene	210	2,100	ug/L	0.33 U
1,3-Dichloropropane	0.4		ug/L	0.26 U
1,4-Dichlorobenzene	75	7,500	ug/L	0.28 U
2,2-Dichloropropane			ug/L	0.59 U
2-Butanone (MEK)	4,200	42,000	ug/L	7.5 U
2-Chloroethylvinyl ether			ug/L	1.4 U
2-Chlorotoluene	140	1,400	ug/L	0.28 U
2-Hexanone	280	2,800	ug/L	0.85 U
4-Chlorotoluene	140	1,400	ug/L	0.22 U
4-Methyl-2-pentanone (MIBK)	560	5,600	ug/L	0.32 U
Acetone	6,300	63,000	ug/L	6.8 I
Acetonitrile	42	420	ug/L	24.5 U
Benzene	1	100	ug/L	0.30 U
Bromobenzene			ug/L	0.21 U
Bromochloromethane	91	910	ug/L	0.37 U
Bromodichloromethane	0.6	60	ug/L	0.19 U
Bromoform	4.4	440	ug/L	2.6 U
Bromomethane	9.8	98	ug/L	4.0 U
Carbon disulfide	700	7,000	ug/L	0.45 U
Carbon tetrachloride	3	300	ug/L	1.1 U

Table 3

**Groundwater
Analytical Results**

Future Civil and Probate Courthouse
Facility ID: HWR-926

Analytes	Table I, Ch. 62-777, FAC Groundwater Cleanup Target Levels	Table V, Ch. 62-777, FAC Natural Attenuation Default Source Concentrations	Sample Date	5/3/2019
			Sample Location (Units)	CHMW-01
Chlorobenzene	100	1,000	ug/L	0.35 U
Chloroethane	12	1,200	ug/L	3.7 U
Chloroform	70	700	ug/L	0.32 U
Chloromethane	2.7	270	ug/L	0.97 U
Dibromochloromethane	0.4	40	ug/L	0.45 U
Dibromomethane	70		ug/L	0.68 U
Dichlorodifluoromethane	1,400	14,000	ug/L	0.26 U
Ethylbenzene	30	300	ug/L	0.30 U
Iodomethane			ug/L	9.3 U
Isopropylbenzene (Cumene)	0.8	8	ug/L	0.30 U
Methyl-tert-butyl ether	20	200	ug/L	0.51 U
Methylene Chloride	5	500	ug/L	2.0 U
Styrene	100	1,000	ug/L	0.26 U
Tetrachloroethene	3	300	ug/L	0.38 U
Toluene	40	400	ug/L	0.33 U
Trichloroethene	3	300	ug/L	0.36 U
Trichlorofluoromethane	2,100	21,000	ug/L	0.35 U
Vinyl acetate	88	880	ug/L	0.19 U
Vinyl chloride	1	100	ug/L	0.39 U
Xylene (Total)	20	200	ug/L	2.1 U
cis-1,2-Dichloroethene	70	700	ug/L	0.27 U
cis-1,3-Dichloropropene	0.4	40	ug/L	0.17 U
m&p-Xylene			ug/L	2.1 U
n-Butylbenzene			ug/L	0.20 U
n-Propylbenzene			ug/L	0.37 U
o-Xylene			ug/L	0.27 U
p-Isopropyltoluene			ug/L	0.31 U
sec-Butylbenzene	280	2,800	ug/L	0.17 U
tert-Butylbenzene			ug/L	0.26 U
trans-1,2-Dichloroethene	100	1,000	ug/L	0.23 U
trans-1,3-Dichloropropene	0.4	40	ug/L	0.17 U
EPA 8270				
2,3,4,6-Tetrachlorophenol	210	2,100	ug/L	1.5 U
2,3,5,6-Tetrachlorophenol			ug/L	2.7 U
2,4,5-Trichlorophenol	1	10	ug/L	0.34 U
2,4,6-Trichlorophenol	3.2	320	ug/L	0.53 U
2,4-Dichlorophenol	0.3	3	ug/L	0.50 U
2,4-Dimethylphenol	140	1,400	ug/L	1.5 U
2,4-Dinitrophenol	14	140	ug/L	3.9 U
2-Chlorophenol	35	350	ug/L	2.0 U
2-Methylphenol(o-Cresol)	35	350	ug/L	0.44 U
2-Nitrophenol	56	560	ug/L	2.0 U
3&4-Methylphenol(m&p Cresol)	35; 3.5	350; 35	ug/L	0.32 U
4,6-Dinitro-2-methylphenol			ug/L	6.7 U
4-Chloro-3-methylphenol	63	630	ug/L	7.9 U
4-Nitrophenol	56	560	ug/L	2.9 U

Table 3

**Groundwater
Analytical Results**

Future Civil and Probate Courthouse
Facility ID: HWR-926

Analytes	Table I, Ch. 62-777, FAC Groundwater Cleanup Target Levels	Table V, Ch. 62-777, FAC Natural Attenuation Default Source Concentrations	Sample Date	5/3/2019
			Sample Location (Units)	CHMW-01
Pentachlorophenol	1	100	ug/L	2.4 U
Phenol	10	100	ug/L	0.92 U
EPA 8270 by SIM				
1-Methylnaphthalene	28	280	ug/L	0.19 U
2-Methylnaphthalene	28	280	ug/L	0.68 U
Acenaphthene	20	200	ug/L	0.040 U
Acenaphthylene	210	2,100	ug/L	0.030 U
Anthracene	2,100	21,000	ug/L	0.043 U
Benzo(a)anthracene	0.05	5	ug/L	0.055 U
Benzo(a)pyrene	0.2	20	ug/L	0.12 U
Benzo(b)fluoranthene	0.05	5	ug/L	0.027 U
Benzo(g,h,i)perylene	210	2,100	ug/L	0.15 U
Benzo(k)fluoranthene	0.5	50	ug/L	0.16 U
Chrysene	4.8	480	ug/L	0.026 U
Dibenz(a,h)anthracene	0.005	0.5	ug/L	0.13 U
Fluoranthene	280	2,800	ug/L	0.018 U
Fluorene	280	2,800	ug/L	0.088 U
Indeno(1,2,3-cd)pyrene	0.05	5	ug/L	0.12 U
Naphthalene	14	140	ug/L	0.29 U
Phenanthrene	210	2,100	ug/L	0.16 U
Pyrene	210	2,100	ug/L	0.032 U
FL-PRO				
Petroleum Range Organics	5,000	50,000	ug/L	800 U

Notes:

- {BOLDED CONCENTRATION} exceeds its Groundwater Cleanup Target Level (GCTL).
- {BOLDED ITALICIZED CONCENTRATION} exceeds its Natural Attenuation Default Concentration.
- "U" flag indicates concentration was below the method detection limit (MDL).
- "I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).
- N/A denotes analyte note requested.

FIGURES

NW 1ST ST

NW 1ST AVE

W FLAGLER ST

Metromover

HistoryMiami
Museum



 Approximate Site Boundary (±0.57 acres)



0 12.5 25 50 Feet

Service Layer Credits:

 **SMART-SCIENCES**
Environmental Consulting
330 SW 27th Avenue, Suite 504, Miami, FL 33135
P: 786.313.3977 F: 305.356.4333
www.smart-sciences.com

New Civil & Probate Courthouse

NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

2017 Aerial Imagery

FIGURE

2

CHECKED BY: GLC

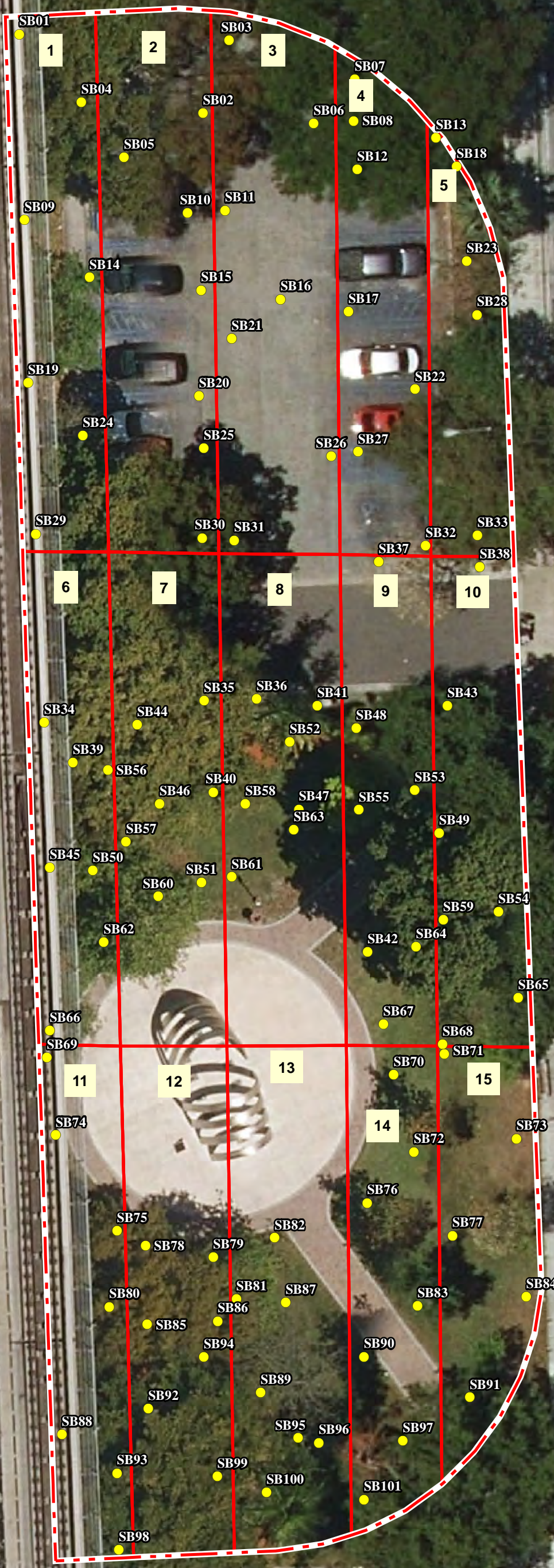
DRAWN BY: MDV

PROJECT NUMBER
089-007

SCALE: As Shown

DATE: 5/8/2019

Document Path: M:\Projects\Projects by Clients\089-007 New Civil & Probate Courthouse_Sampling_PH_114_figures and drawings\GIS\Report\Fig2_2017Aerials.mxd



NW 1ST AVE

- Approximate Site Boundary (±0.57 acres)
- Sampling Grids (15 total)
- Soil Boring (101 total), Smart-Sciences 2019



Service Layer Credits:

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SMART-SCIENCES
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330 SW 27th Avenue, Suite 504, Miami, FL 33135
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www.smart-sciences.com

New Civil & Probate Courthouse
NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida




Soil Boring Locations

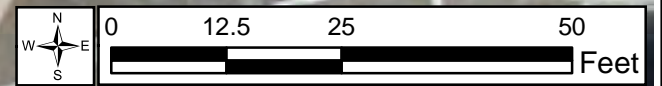
FIGURE
3

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

SCALE: As Shown DATE: 5/9/2019



 Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)
 Groundwater Monitoring Well, Smart-Sciences 2019
 Permanent monitoring well CHMW-01 installed on 5/2/2019 (Latitude: 25.7748; Longitude: -80.196)



Service Layer Credits

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SMART-SCIENCES
 Environmental Consulting
 330 SW 27th Avenue, Suite 504, Miami, FL 33135
 P: 786.313.3977 F: 305.356.4333
 www.smart-sciences.com

New Civil & Probate Courthouse
 NW of Intersection of W Flagler St and NW 1st Ave
 Section 1, Township 54 South, Range 41 East
 Miami, Miami-Dade County, Florida

Groundwater Monitoring Well Location

FIGURE
4

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

SCALE: As Shown DATE: 5/8/2019

Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

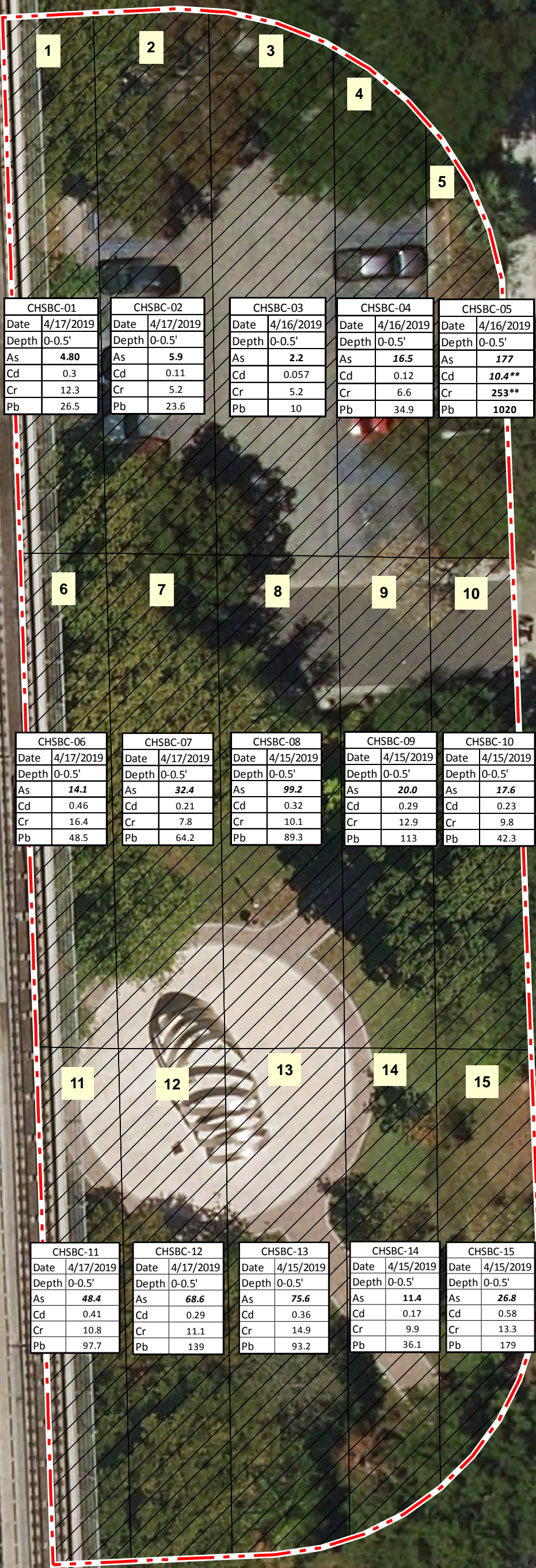
Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)



SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
As	ARSENIC
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD

CHSBC-01	
Date	4/17/2019
Depth	0-0.5'
As	4.80
Cd	0.3
Cr	12.3
Pb	26.5

CHSBC-02	
Date	4/17/2019
Depth	0-0.5'
As	5.9
Cd	0.11
Cr	5.2
Pb	23.6

CHSBC-03	
Date	4/16/2019
Depth	0-0.5'
As	2.2
Cd	0.057
Cr	5.2
Pb	10

CHSBC-04	
Date	4/16/2019
Depth	0-0.5'
As	16.5
Cd	0.12
Cr	6.6
Pb	34.9

CHSBC-05	
Date	4/16/2019
Depth	0-0.5'
As	177
Cd	10.4**
Cr	253**
Pb	1020

CHSBC-06	
Date	4/17/2019
Depth	0-0.5'
As	14.1
Cd	0.46
Cr	16.4
Pb	48.5

CHSBC-07	
Date	4/17/2019
Depth	0-0.5'
As	32.4
Cd	0.21
Cr	7.8
Pb	64.2

CHSBC-08	
Date	4/15/2019
Depth	0-0.5'
As	99.2
Cd	0.32
Cr	10.1
Pb	89.3

CHSBC-09	
Date	4/15/2019
Depth	0-0.5'
As	20.0
Cd	0.29
Cr	12.9
Pb	113

CHSBC-10	
Date	4/15/2019
Depth	0-0.5'
As	17.6
Cd	0.23
Cr	9.8
Pb	42.3

CHSBC-11	
Date	4/17/2019
Depth	0-0.5'
As	48.4
Cd	0.41
Cr	10.8
Pb	97.7

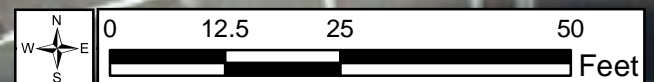
CHSBC-12	
Date	4/17/2019
Depth	0-0.5'
As	68.6
Cd	0.29
Cr	11.1
Pb	139

CHSBC-13	
Date	4/15/2019
Depth	0-0.5'
As	75.6
Cd	0.36
Cr	14.9
Pb	93.2

CHSBC-14	
Date	4/15/2019
Depth	0-0.5'
As	11.4
Cd	0.17
Cr	9.9
Pb	36.1

CHSBC-15	
Date	4/15/2019
Depth	0-0.5'
As	26.8
Cd	0.58
Cr	13.3
Pb	179

NW 1ST AVE



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Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)

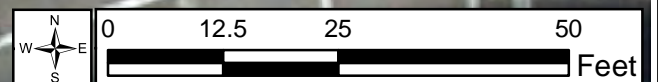
CHSBC-01		CHSBC-02		CHSBC-03		CHSBC-04		CHSBC-05	
Date	4/17/2019	Date	4/17/2019	Date	4/16/2019	Date	4/16/2019	Date	4/16/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
As	41.5	As	89.8	As	51.5	As	82.3	As	53.3
Cd	0.46	Cd	0.25	Cd	0.35	Cd	0.34	Cd	0.79
Cr	21	Cr	6.3	Cr	5.6	Cr	9.3	Cr	18.8
Pb	160	Pb	143	Pb	86.4	Pb	173	Pb	174

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
As	ARSENIC
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD

CHSBC-06		CHSBC-07		CHSBC-08		CHSBC-09		CHSBC-10	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
As	103	As	106	As	69.4	As	15.8	As	46.4
Cd	0.32	Cd	0.16	Cd	0.15	Cd	0.2	Cd	0.65
Cr	10.6	Cr	6.4	Cr	5.6	Cr	11.4	Cr	13.5
Pb	177	Pb	114	Pb	69.9	Pb	253	Pb	232

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
As	63.7	As	190	As	81.3	As	5.4	As	31.7
Cd	0.3	Cd	0.52	Cd	0.22	Cd	0.16	Cd	0.29
Cr	9.6	Cr	13.2	Cr	5.7	Cr	5.3	Cr	6.7
Pb	177	Pb	303	Pb	156	Pb	54.7	Pb	101

NW 1ST AVE



Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)

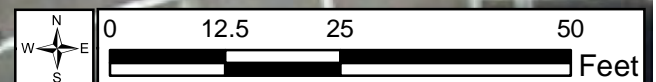
CHSBC-01		CHSBC-02		CHSBC-03		CHSBC-04		CHSBC-05	
Date	4/17/2019	Date	4/17/2019	Date	4/16/2019	Date	4/16/2019	Date	4/16/2019
Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'
B(a)A	1.1**	B(a)A	0.65	B(a)A	0.38	B(a)A	0.8	B(a)A	8.7**
B(a)P	0.96	B(a)P	0.61	B(a)P	0.22	B(a)P	0.75	B(a)P	9.1**
B(b)F	1.7	B(b)F	1	B(b)F	0.4	B(b)F	1.4	B(b)F	14.4**
B(k)F	0.67	B(k)F	0.45	B(k)F	0.16 I	B(k)F	0.49	B(k)F	6.1
Chr	1.2	Chr	0.86	Chr	0.56	Chr	1.2	Chr	11.9
DB(ah)A	0.14	DB(ah)A	0.088 I	DB(ah)A	0.040 U	DB(ah)A	0.081 I	DB(ah)A	1.3 I**
Ipyr	0.43	Ipyr	0.31	Ipyr	0.12 I	Ipyr	0.37	Ipyr	5.0

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
B(k)F	BENZO(k)FLUORANTHENE
Chr	CHRYSENE
DB(ah)A	DIBENZ(a,h)ANTHRACENE
Ipyr	INDENO(1,2,3-cd)PYRENE

CHSBC-06		CHSBC-07		CHSBC-08		CHSBC-09		CHSBC-10	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'
B(a)A	0.17	B(a)A	0.36	B(a)A	1.6**	B(a)A	0.42	B(a)A	0.28
B(a)P	0.17	B(a)P	0.46	B(a)P	2.0	B(a)P	0.44	B(a)P	0.29
B(b)F	0.23	B(b)F	0.81	B(b)F	2.7**	B(b)F	0.62	B(b)F	0.43
B(k)F	0.10 I	B(k)F	0.29	B(k)F	0.93	B(k)F	0.24	B(k)F	0.16
Chr	0.17	Chr	0.47	Chr	2.1	Chr	0.53	Chr	0.34
DB(ah)A	0.034 U	DB(ah)A	0.066	DB(ah)A	0.37	DB(ah)A	0.094 I	DB(ah)A	0.062
Ipyr	0.12 I	Ipyr	0.24	Ipyr	1.3	Ipyr	0.31	Ipyr	0.21

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'	Depth	0-0.5'
B(a)A	0.95**	B(a)A	0.19	B(a)A	0.4	B(a)A	0.14	B(a)A	0.37
B(a)P	1	B(a)P	0.2	B(a)P	0.45	B(a)P	0.16	B(a)P	0.38
B(b)F	1.3	B(b)F	0.27	B(b)F	0.62	B(b)F	0.23	B(b)F	0.53
B(k)F	0.59	B(k)F	0.12 I	B(k)F	0.22	B(k)F	0.091	B(k)F	0.21
Chr	0.90	Chr	0.18	Chr	0.48	Chr	0.18	Chr	0.42
DB(ah)A	0.18	DB(ah)A	0.038 I	DB(ah)A	0.080	DB(ah)A	0.028 I	DB(ah)A	0.072 I
Ipyr	0.63	Ipyr	0.13 I	Ipyr	0.27	Ipyr	0.097	Ipyr	0.22

NW 1ST AVE



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Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)

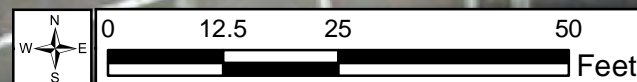
CHSBC-01		CHSBC-02		CHSBC-03		CHSBC-04		CHSBC-05	
Date	4/17/2019	Date	4/17/2019	Date	4/16/2019	Date	4/16/2019	Date	4/16/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
B(a)A	0.28	B(a)A	0.13	B(a)A	0.23	B(a)A	0.14	B(a)A	1.0**
B(a)P	0.31	B(a)P	0.14	B(a)P	0.25	B(a)P	0.13	B(a)P	1.2
B(b)F	0.54	B(b)F	0.29	B(b)F	0.37	B(b)F	0.22	B(b)F	1.9
B(k)F	0.19	B(k)F	0.10 I	B(k)F	0.18	B(k)F	0.077 I	B(k)F	0.82
Chr	0.40	Chr	0.20	Chr	0.31	Chr	0.18	Chr	1.5
DB(ah)A	0.044	DB(ah)A	0.028 U	DB(ah)A	0.037	DB(ah)A	0.028 U	DB(ah)A	0.16
Ipyr	0.16	Ipyr	0.072 I	Ipyr	0.14	Ipyr	0.06 I	Ipyr	0.63

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
B(a)A	BENZO(a)ANTHRACENE
B(a)P	BENZO(a)PYRENE
B(b)F	BENZO(b)FLUORANTHENE
B(k)F	BENZO(k)FLUORANTHENE
Chr	CHRYSENE
DB(ah)A	DIBENZ(a,h)ANTHRACENE
Ipyr	INDENO(1,2,3-cd)PYRENE

CHSBC-06		CHSBC-07		CHSBC-08		CHSBC-09		CHSBC-10	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
B(a)A	0.65	B(a)A	0.31	B(a)A	0.44	B(a)A	0.070 I	B(a)A	0.11 I
B(a)P	0.69	B(a)P	0.37	B(a)P	0.54	B(a)P	0.066 I	B(a)P	0.12 I
B(b)F	1.1	B(b)F	0.62	B(b)F	0.73	B(b)F	0.10 I	B(b)F	0.17
B(k)F	0.37	B(k)F	0.24	B(k)F	0.28	B(k)F	0.042 I	B(k)F	0.091 I
Chr	0.60	Chr	0.30	Chr	0.58	Chr	0.090 I	Chr	0.15
DB(ah)A	0.14	DB(ah)A	0.080	DB(ah)A	0.11 I	DB(ah)A	0.029 U	DB(ah)A	0.029 U
Ipyr	0.48	Ipyr	0.28	Ipyr	0.38	Ipyr	0.049 I	Ipyr	0.087 I

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
B(a)A	0.67	B(a)A	0.21	B(a)A	2.0**	B(a)A	0.088	B(a)A	0.43
B(a)P	0.71	B(a)P	0.22	B(a)P	1.8	B(a)P	0.14	B(a)P	0.39
B(b)F	0.93	B(b)F	0.3	B(b)F	2.3	B(b)F	0.18	B(b)F	0.52
B(k)F	0.44	B(k)F	0.12 I	B(k)F	0.89	B(k)F	0.083	B(k)F	0.20
Chr	0.60	Chr	0.18	Chr	2.2	Chr	0.13	Chr	0.47
DB(ah)A	0.13 I	DB(ah)A	0.048 I	DB(ah)A	0.28	DB(ah)A	0.027 I	DB(ah)A	0.067 I
Ipyr	0.44	Ipyr	0.15	Ipyr	1.0	Ipyr	0.088	Ipyr	0.22

NW 1ST AVE



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Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

CHSBC-01	CHSBC-02	CHSBC-03	CHSBC-04	CHSBC-05
Date 4/17/2019	Date 4/17/2019	Date 4/16/2019	Date 4/16/2019	Date 4/16/2019
Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'
TRPH 288	TRPH 578**	TRPH 1240**	TRPH 499**	TRPH 1130**

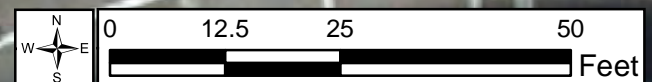
CHSBC-06	CHSBC-07	CHSBC-08	CHSBC-09	CHSBC-10
Date 4/17/2019	Date 4/17/2019	Date 4/15/2019	Date 4/15/2019	Date 4/15/2019
Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'
TRPH 10.0 U	TRPH 52.6	TRPH 306	TRPH 135	TRPH 3.6 I

CHSBC-06	CHSBC-07	CHSBC-08	CHSBC-09	CHSBC-10
Date 4/17/2019	Date 4/17/2019	Date 4/15/2019	Date 4/15/2019	Date 4/15/2019
Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'
TRPH 10.0 U	TRPH 52.6	TRPH 306	TRPH 135	TRPH 3.6 I

CHSBC-11	CHSBC-12	CHSBC-13	CHSBC-14	CHSBC-15
Date 4/17/2019	Date 4/17/2019	Date 4/15/2019	Date 4/15/2019	Date 4/15/2019
Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'
TRPH 105	TRPH 8.9 U	TRPH 137	TRPH 93.1	TRPH 17.6 I

CHSBC-11	CHSBC-12	CHSBC-13	CHSBC-14	CHSBC-15
Date 4/17/2019	Date 4/17/2019	Date 4/15/2019	Date 4/15/2019	Date 4/15/2019
Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'	Depth 0-0.5'
TRPH 105	TRPH 8.9 U	TRPH 137	TRPH 93.1	TRPH 17.6 I

NW 1ST AVE



Document Path: M:\Projects\Projects by Clients\089 - Atroads\089-007 New Civil & Probate Courthouse_Sampling_PH_114_Figures and Drawings\GIS\Soil_Results\Fig7A_TRPH-6.mxd



New Civil & Probate Courthouse

NW of Intersection of W Flagler St and NW 1st Ave
 Section 1, Township 54 South, Range 41 East
 Miami, Miami-Dade County, Florida

**TRPH
(0-0.5 ft)**

FIGURE
7A

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

SCALE: As Shown DATE: 5/7/2019

Approximate Site Boundary (±0.57 acres)
 Sampling Grids (15 total)

Results are reported in mg/kg

Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

CHSBC-01		CHSBC-02		CHSBC-03		CHSBC-04		CHSBC-05	
Date	4/17/2019	Date	4/17/2019	Date	4/16/2019	Date	4/16/2019	Date	4/16/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
TRPH	177	TRPH	7.8 U	TRPH	101	TRPH	93.9	TRPH	181

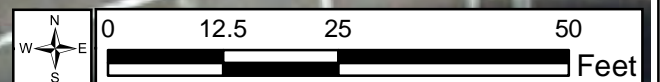
CHSBC-06		CHSBC-07		CHSBC-08		CHSBC-09		CHSBC-10	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
TRPH	68.7	TRPH	54.8	TRPH	125	TRPH	8.1 I	TRPH	8.2 I

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
TRPH	298	TRPH	8.3 U	TRPH	160	TRPH	8.7	TRPH	4.6 I

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
TRPH	298	TRPH	8.3 U	TRPH	160	TRPH	8.7	TRPH	4.6 I

CHSBC-11		CHSBC-12		CHSBC-13		CHSBC-14		CHSBC-15	
Date	4/17/2019	Date	4/17/2019	Date	4/15/2019	Date	4/15/2019	Date	4/15/2019
Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'	Depth	0.5-2'
TRPH	298	TRPH	8.3 U	TRPH	160	TRPH	8.7	TRPH	4.6 I

NW 1ST AVE



Document Path: M:\Projects\Projects by Clients\089-007 New Civil & Probate Courthouse_Sampling_PH_114_Figures and Drawings\GIS\Soil_Results\Fig7B_TRPH6-24.mxd



New Civil & Probate Courthouse

NW of Intersection of W Flagler St and NW 1st Ave
 Section 1, Township 54 South, Range 41 East
 Miami, Miami-Dade County, Florida

**TRPH
 (0.5-2.0 ft)**

FIGURE
7B

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

SCALE: As Shown DATE: 5/8/2019

- Approximate Site Boundary (±0.57 acres)
- Sampling Grids (15 total)

Based on OVA readings, 10 out of 30 composite samples were additionally analyzed for cresols, pentachlorophenol, and phenol (7/10 from 0-0.5' interval and 3/10 from 0.5-2' interval)

Results are reported in mg/kg

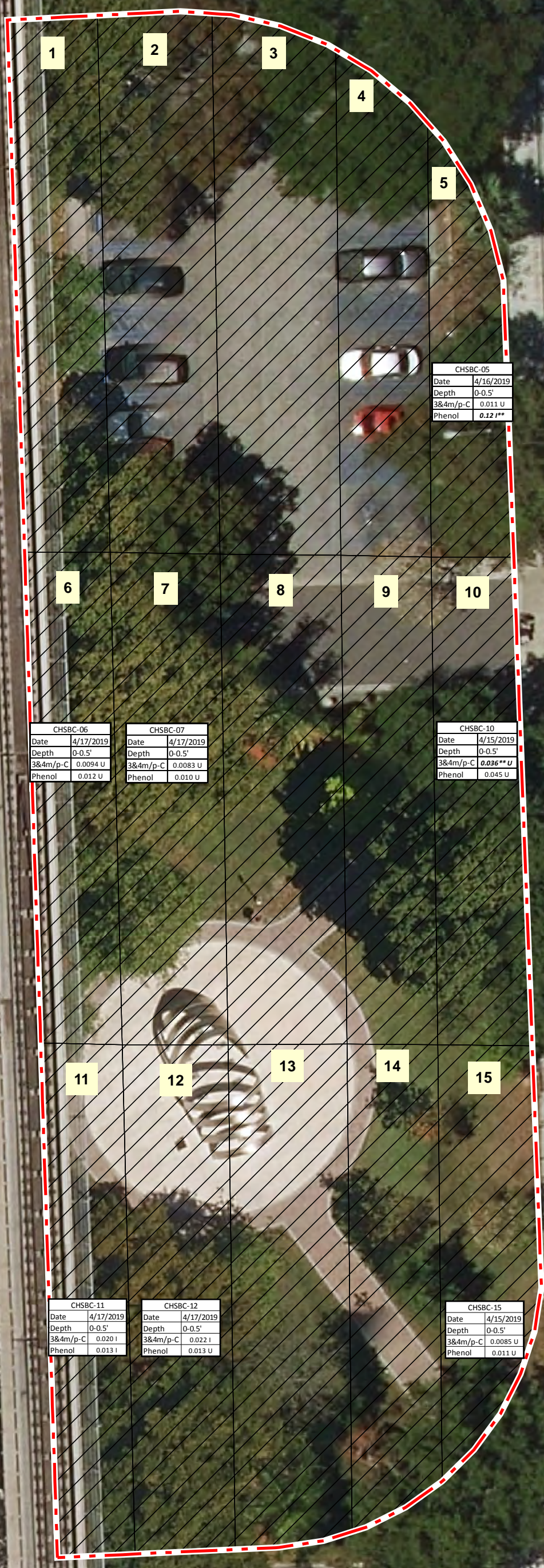
Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)



SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
3&4m/p-C	3&4-METHYLPHENOL(m&p CRESOL)
Phenol	PHENOL

CHSBC-05	
Date	4/16/2019
Depth	0-0.5'
3&4m/p-C	0.011 U
Phenol	0.12 I**

CHSBC-06	
Date	4/17/2019
Depth	0-0.5'
3&4m/p-C	0.0094 U
Phenol	0.012 U

CHSBC-07	
Date	4/17/2019
Depth	0-0.5'
3&4m/p-C	0.0083 U
Phenol	0.010 U

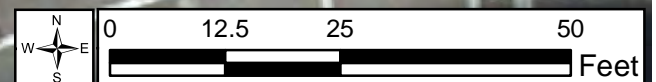
CHSBC-10	
Date	4/15/2019
Depth	0-0.5'
3&4m/p-C	0.036** U
Phenol	0.045 U

CHSBC-11	
Date	4/17/2019
Depth	0-0.5'
3&4m/p-C	0.020 I
Phenol	0.013 I

CHSBC-12	
Date	4/17/2019
Depth	0-0.5'
3&4m/p-C	0.022 I
Phenol	0.013 U

CHSBC-15	
Date	4/15/2019
Depth	0-0.5'
3&4m/p-C	0.0085 U
Phenol	0.011 U

NW 1ST AVE



Document Path: M:\Projects\Projects by Clients\089 - Arcadis\089-007 New Civil & Probate Courthouse_Sampling_PH_114_Figures and Drawings\GIS\Soil Results\Fig8A_PhenolCresol06.mxd



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Environmental Consulting
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www.smart-sciences.com

New Civil & Probate Courthouse
NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

**Phenols & Cresols
(0-0.5 ft)**
SCALE: As Shown DATE: 5/8/2019

FIGURE
8A

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

-  Approximate Site Boundary (±0.57 acres)
-  Sampling Grids (15 total)

Based on OVA readings, 10 out of 30 composite samples were additionally analyzed for cresols, pentachlorophenol, and phenol (7/10 from 0-0.5' interval and 3/10 from 0.5-2' interval)

Results are reported in mg/kg

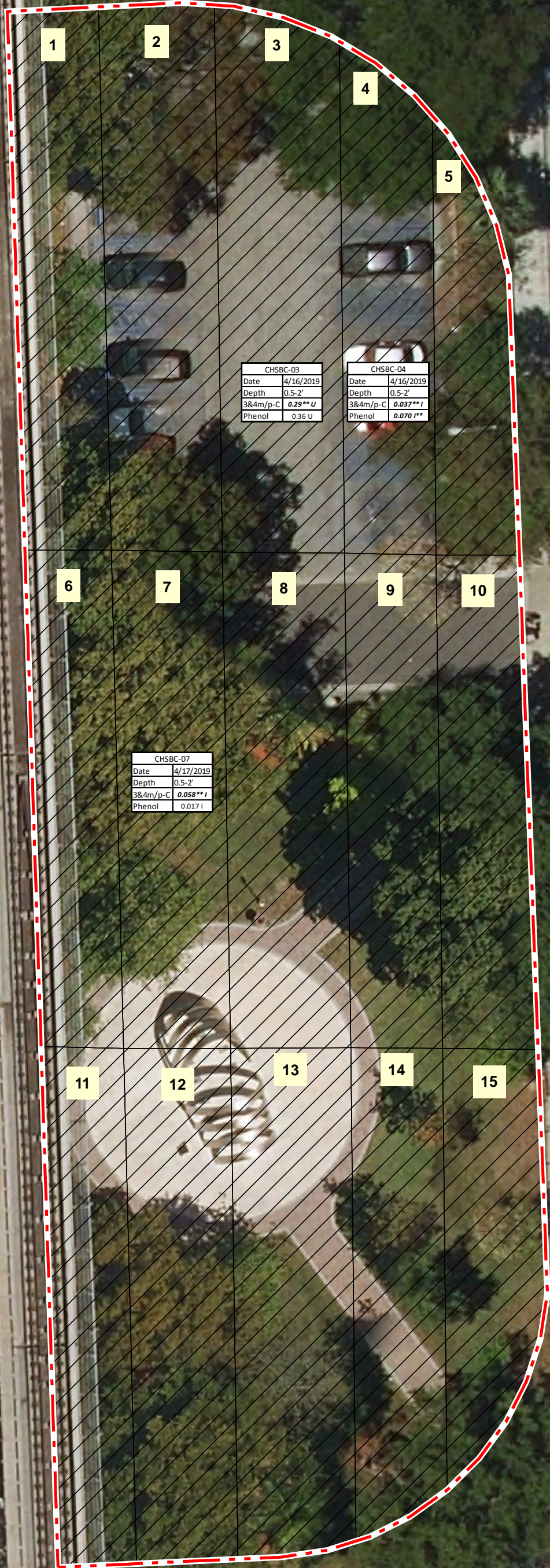
Bolded concentration exceeds its residential direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration exceeds its industrial direct exposure limit established in Table 2 of Chapter 62-777, FAC.

Bolded italicized concentration with an ** beside it exceeds its leachability limit established in Table 2 of Chapter 62-777, FAC.

U - flag indicated concentration was below the method detection limit (MDL)

I - flag indicated concentration was between MDL and practical quantitation limit (PQL)



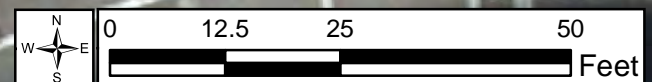
CHSBC-03	
Date	4/16/2019
Depth	0.5-2'
3&4m/p-C	0.29**U
Phenol	0.36 U

CHSBC-04	
Date	4/16/2019
Depth	0.5-2'
3&4m/p-C	0.037**I
Phenol	0.070 I**

CHSBC-07	
Date	4/17/2019
Depth	0.5-2'
3&4m/p-C	0.058**I
Phenol	0.017 I

SAMPLE LOCATION	
DATE	SAMPLE DATE
DEPTH	SAMPLE DEPTH
3&4m/p-C	3&4-METHYLPHENOL(m&p CRESOL)
Phenol	PHENOL

NW 1ST AVE



Document Path: M:\Projects\Projects by Client\089 - Arcadis\089-007 New Civil & Probate Courthouse_Sampling_PH_ILM_figures_and_drawings\GIS\Soil_Results\Fig8B_PhenolCresols-24.mxd

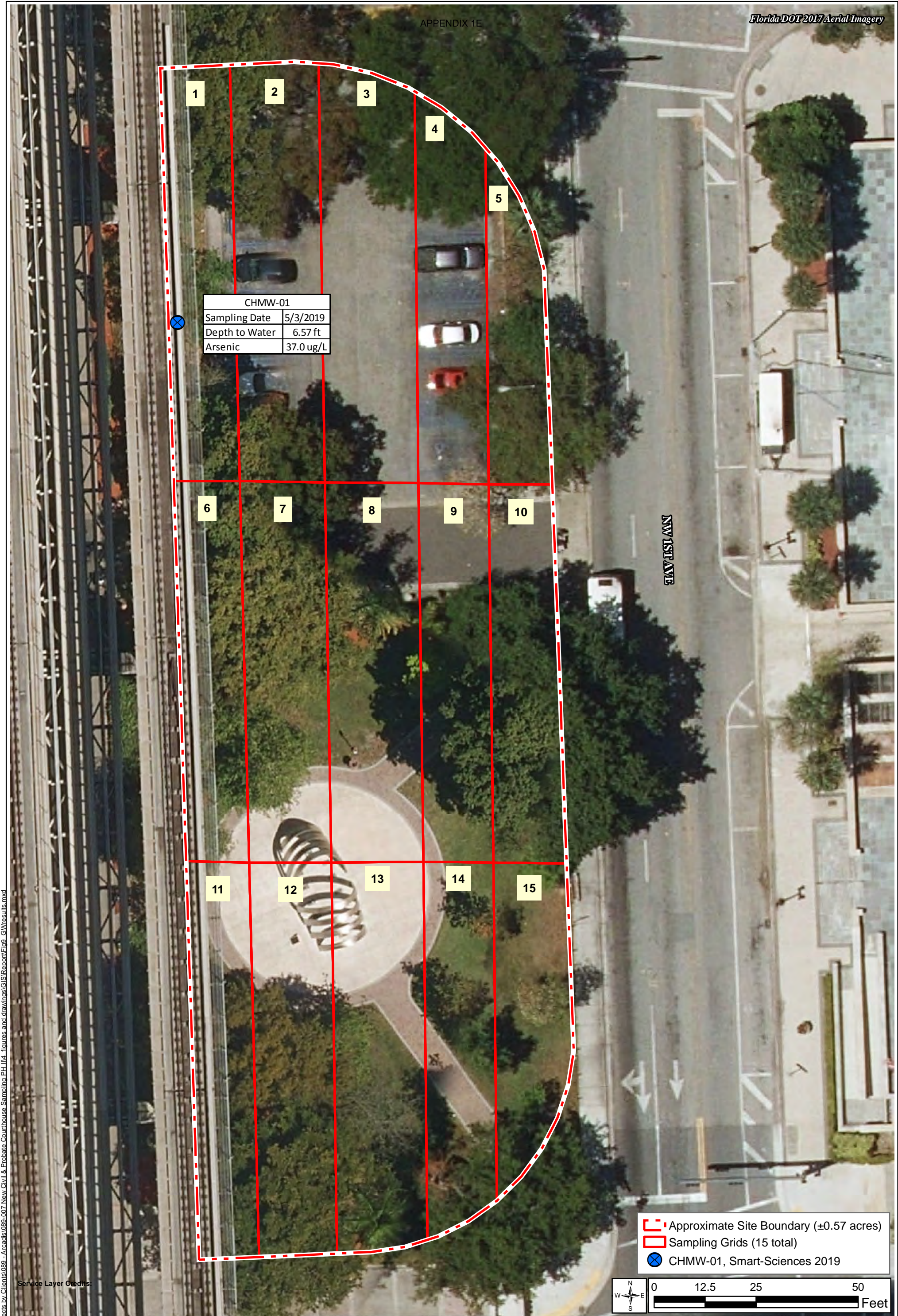
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www.smart-sciences.com

New Civil & Probate Courthouse
NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

Phenols & Cresols
(0.5-2.0 ft)
SCALE: As Shown DATE: 5/8/2019

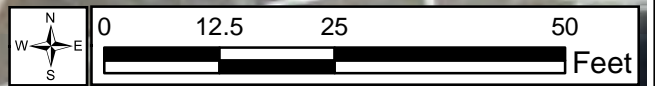
FIGURE
8B

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007



CHMW-01	
Sampling Date	5/3/2019
Depth to Water	6.57 ft
Arsenic	37.0 ug/L

- - - Approximate Site Boundary (±0.57 acres)
- ▭ Sampling Grids (15 total)
- ⊗ CHMW-01, Smart-Sciences 2019



Service Layer Credits

Document Path: M:\Projects\Projects by Clients\089-007 New Civil & Probate Courthouse Sampling PH IV4 Figures and drawings\GIS\Report\Fig_9_GWresults.mxd

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New Civil & Probate Courthouse
NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

Groundwater Analytical Results

FIGURE
9

CHECKED BY: GLC DRAWN BY: MDV PROJECT NUMBER 089-007

SCALE: As Shown DATE: 5/14/2019

APPENDIX A



April 9, 2019

Permit Reference No. MDT-R/W-2019-0723

Gisele Colbert, Principal
Smart-Sciences, Inc.
330 SW 27th Avenue, Suite 504
Miami, Florida 33135

Project No.: MPS407
Project Name: Metrorail/Metromover & NW 1 Street – County New Courthouse
Development
FCSC: 30.05
Description: Smart-Sciences, Inc. Request for Permission to Work Near or
Within the Miami-Dade County Metrorail/Metromover Corridor

Dear Ms. Colbert:

The Department of Transportation and Public Works (DTPW) is pleased to authorize Smart-Sciences, Inc. (SSI) access to work near or within the Miami-Dade County, Department of Transportation and Public Works (DTPW), Metrorail/Metromover Corridor site south of Government Center. The purpose of this authorization is for SSI to take soil samples of the county land, as identified on the drawings provided, being part of the new county courthouse development. Upon completion of the assessment phase, the extraction holes must be abandoned in accordance with the requirements of Rule 62.532.500 (4), Florida Administrative Code, and a Monitoring Well Abandonment Report must be prepared and a copy submitted to DTPW. This work requires the presence of a DTPW spotter when working within 30 feet of the guideway. This access is only good for one month; therefore, a new request must be made for all subsequent sample collections after this first access letter time period has ended.

Attached herewith for your reference, please find your authorization/access letter, spotter/escort information and indemnification requirements, as they relate to working near or within the DTPW Metrorail/Metromover Corridor site. This authorization is valid only upon DTPW staff receiving three (3) day notice prior to beginning the work, and in order to arrange for the DTPW escort.

Should you require additional information and to arrange for an escort, do not hesitate to contact me at 786-469-5244 or Carol Wilson at 786-469-5278.

Sincerely,

A handwritten signature in black ink, appearing to read 'Froilan Baez'.

Froilan Baez,
Chief, Right-of-Way, Utilities and
Joint Development Division

Enclosures

cc: Eric Muntan, DTPW
Bob McClellan, DTPW
Document Control



**DEPARTMENT OF TRANSPORTATION
& PUBLIC WORKS**

Permit Reference No. MDT-R/W-2019-023

AUTHORIZATION/ACCESS LETTER

TO: All Miami-Dade County, Department of Transportation and Public Works (DTPW), and DTPW Contracting Safety and Security Personnel

The activity described herein has been authorized to take place at the time and location indicated below.

ACTIVITY: Smart-Sciences, Inc. (SSI) and/or its contractor(s) are permitted, in accordance with the provisions of Administrative Order 8-4, to bore and extract soil for environmental testing within the DTPW Metrorail/Metromover Corridor south of NW 1 Street, as part the county new courthouse development, as illustrated and described on the attached drawings. The work is scheduled to begin on April 15, 2019, through May 14, 2019, subject to the conditions below. SSI shall notify DTPW staff at least three (3) days prior to beginning the work or else the activity is unduly authorized.

PERMIT HOLDER

ISSUED TO: Smart-Sciences, Inc.

CONTACT PERSON: Gisele Colbert

TELEPHONE: 786-313-3977

DATES: April 15, 2019 thru May 14, 2019

TIMES: 9:00 AM – 4:00 PM

PERMIT AREA: Metrorail/Metromover Corridor & NW 1 Street

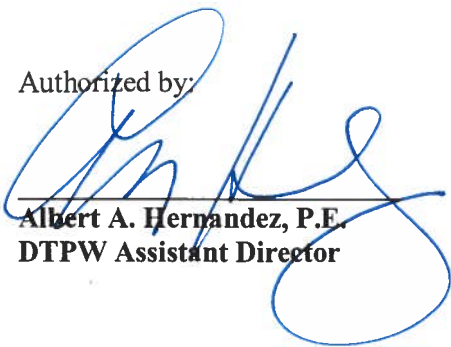
MDT CONTACT: Froilan Baez (786-469-5244)

GENERAL: SSI and/or its contractor(s) must comply with all provisions of Chapter 30B of the Code of Miami-Dade County. SSI and/or its contractor(s) may attend DTPW Safety Training prior to working near or within the Metrorail/Metromover Corridor, and when working, must maintain OSHA required safe distance/clearance from exposed electric on the Metrorail/Metromover Guideway System. SSI and/or its contractor(s) must observe reasonable safety precautions, may not interfere with vehicle movement or passenger flow, and may not enter any restricted areas of any DTPW facility. No crane or aerial work (boom trucks, cherry pickers, scissor lifts, cranes, etc.) will be performed within the 30 foot

zone extending outward from the outer most edges of the DTPW Guideway System unless a DTPW spotter/escort is present. In the event a DTPW spotter/escort is required, please refer to Attachment "A". No equipment, materials, etc. shall be stored underneath the Guideway or on DTPW land. All existing DTPW Guideway fixtures within the permitted area shall be protected and preserved during the extraction work. It is known and SSI and/or its contractor(s) have been made aware that DTPW utilities may be in the vicinity of the proposed work which may not be identified by Sunshine State One Call of Florida, Inc. (One Call). Soft digging is necessary for this work. **NOTE: The Metrorail system is energized 24 hours/7 days per week with +/-480V AC 3 Phase for the station and +/- 750V DC for the trains. The Metromover Guideway System is energized 24 hours, 7 days per week with +/-600V AC, 3 Phases and +/-600 DC, respectively. Downtown area and DTPW stations are active bus routes for several buses.** The contractor(s) when working must not impede, and must maintain, at all times, safe pedestrian/bicycle access to the stations. This work requires the use of a DTPW spotter/escort for work within 30 feet of the guideway(s). SSI and/or its contractor(s) must contact DTPW Right-of-Way, Utilities and Joint Development Division prior to performing the geotechnical soil extractions, or preparation of such, to arrange for a DTPW spotter/escort. All cost associated with the use of a DTPW spotter/escort person must be paid by the Permittee or its contractor(s) and the check must be made payable to DTPW Finance Division. All personnel working on the project shall wear, at a minimum, hard hats and Type II reflective clothing. Upon completion of the assessment phase, the extraction holes must be abandoned in accordance with the requirements of Rule 62.532.500 (4), Florida Administrative Code, and a Monitoring Well Abandonment Report must be prepared and a copy submitted to DTPW. The contractor(s) shall ensure that DTPW property is restored to its original condition or better. Any change in scope of work will require DTPW review.

SSI or its contractor is required to immediately cease all activity and leave the Permit Area, if any of the provisions contained herein are not strictly adhered to, or if requested to do so by authorized DTPW staff or by DTPW contracting Safety and Security personnel.

Authorized by:



Albert A. Hernandez, P.E.
DTPW Assistant Director

4/9/19
Date

Permit Reference No. MDT-R/W-2019-023

ATTACHMENT "A"

DTPW Escort/Monitor requirements:

A DTPW Escort is required if/when work is to be performed within the safety zone or on the Metrorail or Metromover Guideway or Station in accordance with DTPW's discretion. A DTPW Rail Escort will be provided at a cost of \$69.51 per hour including one additional hour travel time, 30 minutes, to and from the project. This rate may change without notice pursuant to union contractual agreements. **Note:** Escorts are employees that are scheduled to work on their day-off at a construction jobsite. They are called in to work so that DTPW's work productivity isn't impacted. These employees report to work at minimum a half shift (four hours) or full shift (eight hours). Billing shall be at minimum four (4) hours. Billing shall be at minimum four (4) hours. If work is cancelled, contractor is responsible for the hours unless cancellation is received at least 24 hours in advance of the scheduled work.

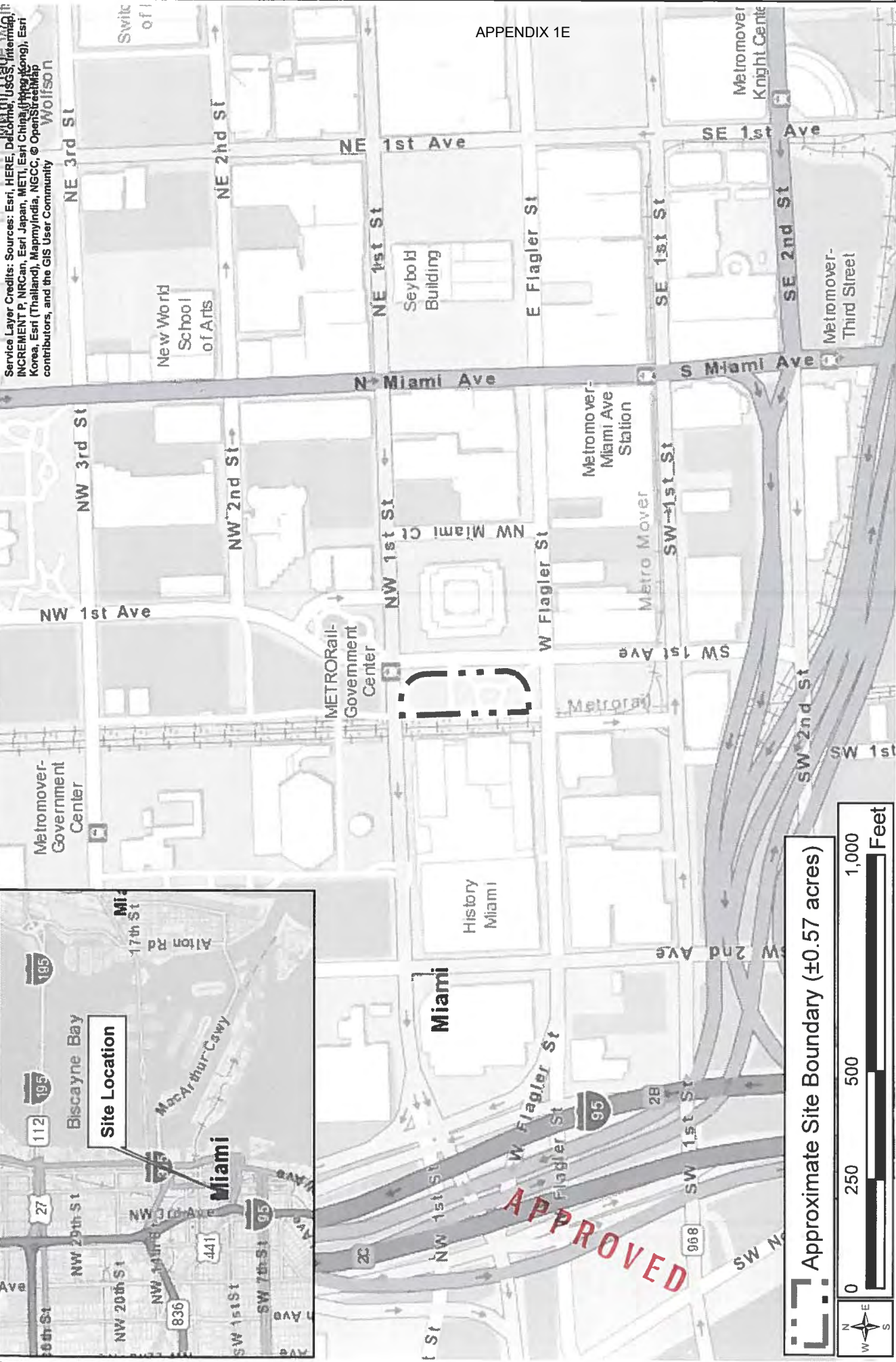
A DTPW Construction and Facility Monitor (Spotter) is required if/when work is to be performed within the safety zone of the Metrorail or Metromover Guideway in accordance with DTPW's discretion. A DTPW Monitor (Spotter) will be provided at a cost of \$23.53 per hour including one additional hour travel time, 30 minutes, to and from the project. This rate may change without notice based on an annual review by DTPW Finance Division. **Note:** These workers are hired as part-time temporarily so that DTPW's work productivity isn't impacted. These employees report to work at minimum a half shift (four hours) or full shift (eight hours). Billing shall be at minimum four (4) hours. If work is cancelled, contractor is responsible for the hours unless cancellation is received at least 24 hours in advance of the scheduled work.

Based on the scheduled times needed for a DTPW Escort/Monitor, all payments must be made payable to Miami-Dade Department of Transportation and Public Works Finance Division, Attn: Accounts Receivable, P.O. Box 010791, Miami, Florida 33101-0791.

To make arrangements for the required DTPW Escort or Monitor, please contact Michael Aviles at 305-375-3387 (michael.aviles@miamidade.gov) or Carol Wilson at 786-469-5278 (carolw@miamidade.gov) at least three (3) business days prior to beginning the work.

Utilities:

Contractor shall verify the locations and elevations of DTPW underground facilities within the Permit area prior to digging, boring or trenching.



APPENDIX 1E

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, OpenStreetMap contributors, and the GIS User Community

FIGURE
1

Site Location

SCALE: As Shown DATE: 9/20/2018

**New Civil & Probate Courthouse
Phase I ESA**

NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

SMART-SCIENCES
Environmental Consulting

330 SW 27th Avenue, Suite 504, Miami, FL 33135
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www.smart-sciences.com

CHECKED BY: GLC DRAWN BY: AO PROJECT NUMBER: 089-006

Approximate Site Boundary (±0.57 acres)

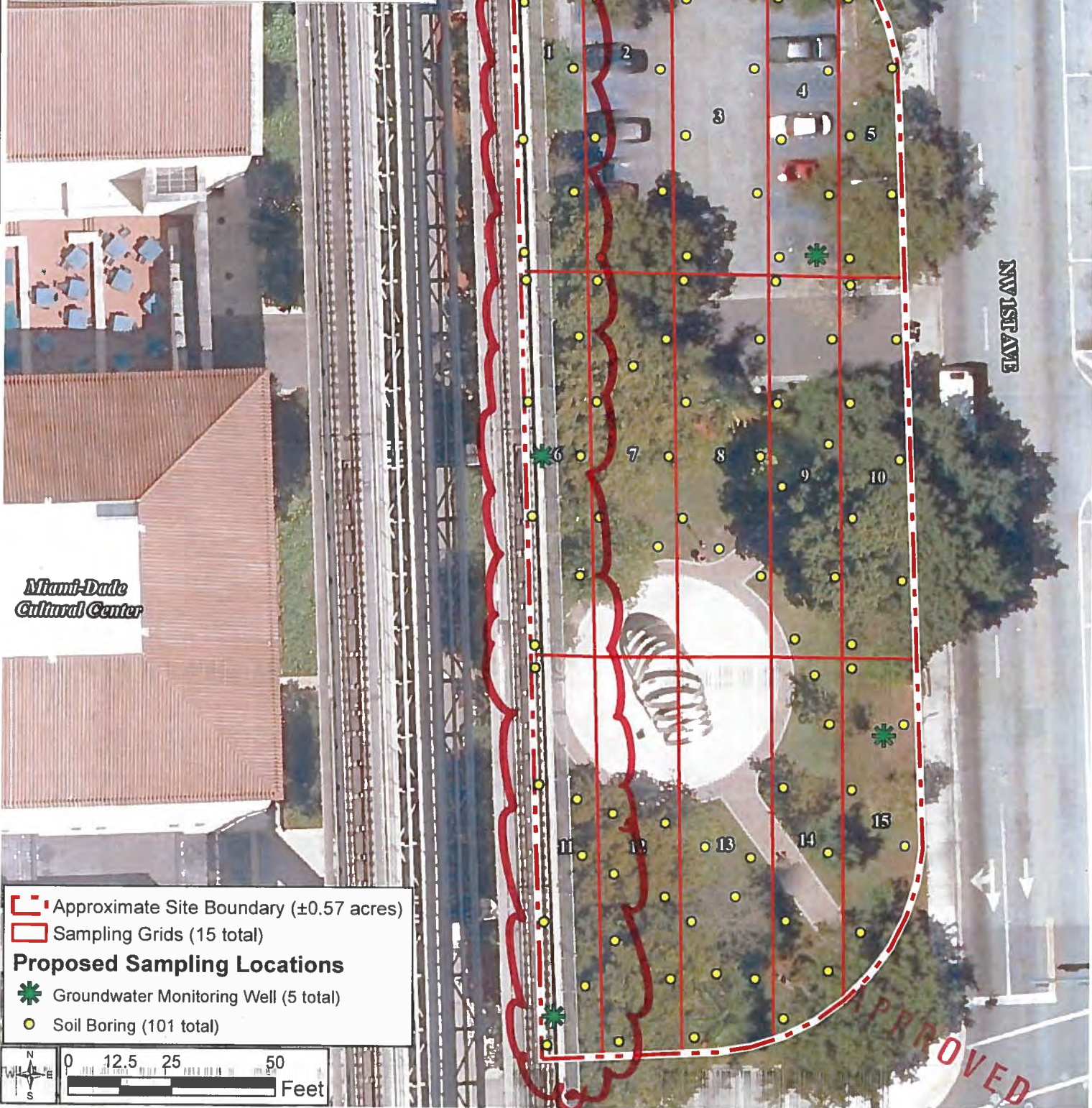
0 250 500 1,000 Feet

Two composite soil samples will be generated, one from 0-6 in. bgs, and one from 6-24 in. bgs for a total of 30 composite samples, which will be analyzed for PAHs, TRPH and 4-RCRA. Additionally, 10 of the 30 composite samples will be analyzed for cresols, pentachlorophenol, and phenol based on PID readings.

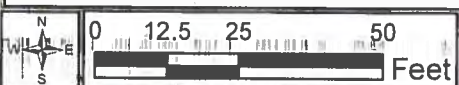
Proposed sampling locations within each grid may need to be adjusted based on conditions encountered in the field.

APPENDIX 1E

Florida DOT 2017 Aerial Imagery



- - - Approximate Site Boundary (±0.57 acres)
- ▭ Sampling Grids (15 total)
- Proposed Sampling Locations**
- ✱ Groundwater Monitoring Well (5 total)
- Soil Boring (101 total)



SMART-SCIENCE
Environmental Consulting

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P 786.313.3977 F 305.356.4333
www.smart-sciences.com

CHECKED BY GLC	DRAWN BY MDV	PROJECT NUMBER 089-007
----------------	--------------	------------------------

New Civil & Probate Courthouse
NW of Intersection of W Flagler St and NW 1st Ave
Section 1, Township 54 South, Range 41 East
Miami, Miami-Dade County, Florida

Proposed Sampling Locations

SCALE: As Shown	DATE: 3/7/2019
-----------------	----------------

FIGURE
1



TRANSPORTATION & PUBLIC WORKS

APPLICATION

(FOR ACCESS TO TRANSIT METRORAIL/METROMOVER/BUSWAY)

Fill out completely and return to the Right of Way, Utilities & Joint Development Division
(Phone 786-469-5244)

Date of Request April 2, 2019		For Profit? X	Not for Profit?
Permit Applicant: Smart-Sciences, Inc.			
Contact Person Title Street/City Telephone FAX Cellular E-mail	Gisele Colbert Principal 330 SW 27 th Avenue, Suite 504, Miami FL 33135 786-313-3977 (Office); 305-356-4333 (Fax) gcolbert@smart-sciences.com		
Date(s) Requested April 15 through 19, 2019			
Time Period Requested (hours) 8AM to 4PM each day			
Project Name Miami-Dade County Future Civil and Probate Courthouse Phase II Sampling			
Type of Activity Initially soil sampling, with potential installation of groundwater monitoring wells at a later time dependent on results of soil sample analysis.			
Details of Activity (be specific) Installation of 101 soil borings to obtain soil samples. Depending on the results of soil sample analysis, installation of 5 groundwater monitoring wells may be necessary at a later time.			
MDT Site Requested The project area is located northwest of the intersection of W Flagler St and NW 1 st Ave, east of the overhead Metromover tracks. The project area consists of a public accessible parking lot and a small green space on the ground level, with the tracks running overhead.			
No. of Personnel/staff to be on site A minimum of two Smart-Sciences' personnel will be on-site as well as drilling personnel (1-2 people).			
Applicant Signature		APPROVED	

APPENDIX B

BORING LOG

Boring/Well Number: SB- <u>1</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 8:51 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 8:54 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.7A	1	0"-1.5' Dark brown MF sand w/rock frags 1.5'-2' Shell rock fill dark tan	SP	Dry	
	6"-2'	18"	/	/	/	0.96	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 2		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:14	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 10:18	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEЕ		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.21	1	0"-6" Shellrock fill tan	SP	Dry	
	6"-2'	18"	/	/	/	1.35	2	6"-1.5' Gray MF sand w/rocks			
							3	1.5'-2' Dark gray MF sand w/rocks			
							4				
							5				
							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

Boring/Well Number: SB- 3		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:08	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 11:13	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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>
HA	0-6"	6"				2.26	1	0"-6" Shell rock fill	SP	Dry	
	6"-2'	18"				2.55	2	6"-2' Dark tan MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 4		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 9:04 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"					0.6A	1	0"-6" Dark brown MF sand	SP	Dcy	
	6"-2'					0.6B	2	6"-1.5' Gray MF sand w/rock frags.			
							3	1.5'-2' Dark brown MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 5		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:10 AM	Borehole End Date: 4/17/19	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.25	1	0" - 2' Shellrock fill tan	SP	Pry	
	6"-2'	18"	/	/	/	0.51	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB-6		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 10:59	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 4/16/19	End Time: 11:04	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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>
HA	0-6"	6"	/	/	/	3.26	1	0"-1' shell rock fill	SP		
	6"-2'	18"	/	/	/	7.15	2	1'-2' MF sand gray w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 7		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:34 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 9:36 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.33	1	0"-6" Shell rock	SP	Dry	
	6"-2'	18"	/	/	/	1.58	2	6"-2' Dark brown MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 8		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:40	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 9:45	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.76	1	0"-1" Shell rock fill	SP	Dry	
	6"-2'	18"	/	/	/	1.81	2	1'-2' MF sand/gray w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 9		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 9:05 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 9:07 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.85	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.23	2	6"-2' Gray MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 10		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:19 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 10:23 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.025	1	0"-1' shell rock tan	SP	Dry	
	6"-2'	18"	/	/	/	1.051	2	1'-2' Dark gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- <u>11</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 10:50 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 10:56 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): <u>HA</u>	Apparent Borehole DTW (in feet from soil moisture content): <u>N/A</u>	Measured Well DTW (in feet after water recharges in well): <u>N/A</u>	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 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)	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)
<u>HA</u>	0-6"	6"	/	/	/	1.51	1	0"-1' shellrock fill	SP	Dry	
	6"-2'	18"	/	/	/	3.2A	2	1'-2' Dark gray MF sand			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 12		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:25 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 9:29 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	2AS	1	0" - 1' Shell rock fill tan	SP	Dry	
	6"-2'	18"	/	/	/	1.5	2	1' - 1.5' Dark gray MF sand w/rock frags			
							3	1.5' - 2' Shell rock fill dark tan			
							4				
							5				
							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

Boring/Well Number: SB- 13		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:53	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 4/16/19	End Time: 11:55	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				2.56	1	0"-2' pea gravel w/MF sand dark brown	SP	Dry	
	6"-2'	18"				1.52	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 14		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 9:14 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 9:16 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.73	1	0"-1' Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.09	2	1'-1.5' Tan MF sand w/rock frags. 1.5'-2' Dark gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB-15		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:25	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 10:26	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)					
HA	0-6"	6"	/	/	/	0.98	1	0"-1" Shellrock fill 1'-2 Gray MF sand	SP	Dry						
	6"-2'	18"	/	/	/	0.86	2				3	4	5	6	7	8

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 _____

Boring/Well Number: SB- 16		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/10/19	Borehole Start Time: 10:42 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 10:44 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2 "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.2A	1	0'-1' Shellrock fill	SP	Dry	
	6'-2'	18"	/	/	/	3.7	2	1'-2' Dark brown MF sand			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 17		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:17	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 9:20	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)		
HA	0-6"	6"	/	/	/	232	1	0"-6" shell rock fill 6"-1' MF sand tan 1'-2' MF sand gray w/rock fragments	SP	dry			
	6"-2'	18"	/	/	/	245	2						
	3												
	4												
	5												
	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

Boring/Well Number: SB- 18		Permit Number:		FDEP Facility Identification Number:							
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:49	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM							
		End Date: 4/16/19	End Time: 11:51	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM							
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer							
Drilling Company: JAEE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'							
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6" 6"-2'	6" 18"				1.95 2.32	1 2 3 4 5 6 7 8 9 10 11 12	0"-2' MF sand Dark gray w/rock frags	SP	Dry	

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- 19		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 9:22	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 9:26	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.91	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.52	2	6'-1.5' Tan MF sand w/rock frags.			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 20		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:42 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 10:46 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.37	1	0" - 1' Shellrock fill	SP	Dry	
	6"-2'	18"	/	/	/	1.02	2	1' - 2' Dark gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 21		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 10:38	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 10:40	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE	Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.99	1	0"-1' shell rock fill	SP	Dry	
	6"-2'	18"	/	/	/	0.69	2	1'-2' Dark brown MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 22		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:13	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 9:15	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): NA	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 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)	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)
HA	0-6"	6"	/	/	/	2.41	1	0" - 1' Shellrock fill	SP	Dry	
	6"-2'	18"	/	/	/	1.7	2	1' - 2' Dark gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 23		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:48	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 11:49	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.14	1	0'-2' pea gravel w/ MF sand Dark brown	SP	Dry	
	6"-2'	18"	/	/	/	1.52	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 24		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 9:27	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 9:29	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.72	1	0'-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.94	2	6"-1.5' Tan MF sand w/rock frags			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 25		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:47	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 10:49	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.28	1	0" - 1' Shellrock fill	SP	Dry	
	6"-2'	18"	/	/	/	1	2	1' - 2' Dark gray MF sand			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 26		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 10:32 AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>	End Date: 4/16/19	End Time: 10:35 AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.82	1	0"-1' Shell rock fill	SP	Dry	
	6"-2'	18"	/	/	/	2.48	2	1'-2' Gray MF sand w/rock frags			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 27		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:10	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 9:11	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2 "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	2	1	0" - 1.5" Shellrock	SF	Dry	
	6"-2'	18"	/	/	/	2.06	2	1.5" - 2' Dark gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 28		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:45	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/16/19	End Time: 11:48	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.32	1	0"-2' Dark brown MF sand w/ pea gravel	SP	Dry	
	6"-2'	18"			2.42	2					
							3				
							4				
							5				
							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

Boring/Well Number: SB- 29		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/7/19	Borehole Start Time: 9:31	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/7/19	End Time: 9:35	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.09	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.53	2	6"-1.5' shell rock Tan			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 30		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 10:50	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 10:55	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.88	1	0"-1' Shellrock fill	SP	Pry	
	6"-2'	18"	/	/	/	0.87	2	1'-2' Gray MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 31		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 10:28 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 10:31 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 2"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.9	1	0'-6" Shell rock Tan	SP	Dry	
	6"-2'	18"	/	/	0.87	2	6"-2' Dark gray M.F. sand w/rock frags				
	3										
	4										
	5										
	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

Boring/Well Number: SB- 32		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 9:00 AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>	End Date: 4/16/19	End Time: 9:02 AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	2.48	1	0"-1' Dark gray MF sand	SP	dry	
	6"-2'	18"	/	/	/	2.7	2	1'-1.5' Shell rock tan			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 33		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/16/19	Borehole Start Time: 11:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/16/19	End Time: 11:43 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				0.95	1	0"-2' Dark brown MF sand	SP	dry	
	6"-2'	18"				2.14	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 34		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 12:45	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 12:48	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<1	1	0" - 1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"				0.21	2	1.5" - 2' Sand Dark tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB-35		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:30	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 11:30	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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>
HA	0-6"	6"	/	/	/	0.73	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.84	2	6"-2' Gray MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 36		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:28 AM	PM <input checked="" type="checkbox"/>	
		End Date: 4/15/19	End Time: 2:30 AM	PM <input checked="" type="checkbox"/>	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<	1	Grass	SP	Dry	
	6"-2'	18"				<	2	0" - 6" Dark brown MF sand			
							3	6" - 2' Brown MF sand w/rocks			
							4				
							5				
							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

Boring/Well Number: SB- 37		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:56	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 10:59	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
FD	0-6"	6"				3.48	1	0" - 2' Brown MF sand w/rocks	SP	Dry	
	6"-2'	18"				3.75	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 37		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:25 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/15/19	End Time: 10:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)				
HA	0-6"	6"				3.05	1	0'-2' Brown MF sand w/rock	SP	Dry					
	6"-2'	18"			2.86	2	3				4	5	6	7	8

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- 39		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 12:48 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
		End Date: 4/17/19	End Time: 12:59 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"		Borehole Depth (feet): 2'
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0-6"	6"	/	/	/	0.23	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.15	2	6"-1.5' Shell rock fill			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- <u>3</u> <u>40</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:34	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 4/17/19	End Time: 11:38	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	12.97	1	grass 0'-1.5' Dark gray MF sand 1.5'-2' Shell rock fill - dark tan	SP	Dry	
	6"-2'	18"	/	/	/	2.91	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 41		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:32	AM	PM
		End Date: 4/15/19	End Time: 2:33	AM	PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<1	1	GLASS	SP	dry	
	6"-2'	8"				<1	2	0'-1' Dark brown MF sand			
							3	1'-1.5' Shell rock fill			
							4	1.5'-2' Dark brown MF sand w/rock frags			
							5				
							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 1 of _____

Boring/Well Number: SB- 42		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:09	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:12	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)							
HA	0-6"	6"				3.92	1	Grass 0''-1' Dark brown MF sand 1'-2' Shell rock fill	SP	Dry								
	6"-2'	18"			4.09	2	3				4	5	6	7	8	9	10	11

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 _____

Boring/Well Number: SB- 43		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:25	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 10:30	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				2.99	1	Grass	SP	Dry	
	6"-2'	18"				3.19	1	0"-1' Dark brown MF sand			
							2	1'-2' Dark brown MF sand / Shellrock - Dark Tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 4A		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/7/19	Borehole Start Time: 11:46	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/7/19	End Time: 11:51	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.43	1	0' - 6" Dark brown MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.79	2	6" - 1.5' Gray/Tan MF sand w/rocks			
							3	1.5' - 2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB-45		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:08	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:12	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Circli Brunt		Environmental Technician's Name: Andrea Orazio / Meike de Vrijngel	
Drilling Company: JAEE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.02	1	0"-6" Dark brown MFSand	SP	Dry	
	6"-2'	18"	/	/	/	0.38	2	6"-2' Shell rock tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 46		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:42 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 11:46 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	2.15	1	0"-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"	/	/	/	2.12	2	1.5"-2' Gray/Tan MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 47		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:37	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 2:38	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<	1	0'-1' Dark brown MF sand	SP	Dry	
	6"-2'	18"				<	2	1'-2' MF sand - Tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 48		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:00	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:05	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				3.89	1	Grass 0" - 1" Dark brown MF sand	SP	Dry	
	6"-2'	18"				3.88	2	1' - 2' Shell rock fill / MF Brown sand w/rocks			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 49		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:06 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/15/19	End Time: 10:10 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 type="checkbox"/> Spread <input 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 type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	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)
HA	0-6"					1.5A	1	0"-6" Dark brown MF sand	SP		
	6"-2'					3.42	2	6"-1' Dark brown MF sand 1'-2' Gray w/rock frag			
							3				
							4				
							5				
							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

Boring/Well Number: SB-50		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/7/19	Borehole Start Time: 12:54	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/7/19	End Time: 12:58	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
	0-6"	6"	/	/	/	>	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	12"	/	/	/	0.91	2	6"-1' shell rock fill			
			/	/	/		3	1'-1.5' MF sand gray w/brick			
			/	/	/		4	1.5'-2' MF sand tan			
			/	/	/		5				
			/	/	/		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

Boring/Well Number: SB- 51		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:38	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/17/19	End Time: 11:42	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.75	1	Grass 0"-2' Dark brown MF sand	SP	Dry	
	6"-2'	18"				2.42	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 52		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:41	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 2:42	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				< <	1	0"-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"					2	1.5'-2' MF sand - tan			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 53		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:03	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:06	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				3.91	1	GRASS	SP	Dry	
	6"-2'	18"				3.87	0"-1' Darkbrown MF sand				
							2	1'-2' Gray MF sand w/rocks			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 54		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/15/19	End Time: 10:06 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0-6"	6"				2.67	1	0"-6" Dark brown MF sand	SP	Dry	
	6"-2'	18"				3.61	2	6"-2' Dark brown MF sand w/rock fragments			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 55		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:06 AM	Borehole End Date: 4/15/19	Borehole End Time: 11:09 AM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				4.32	1	Grass 0"-1" Dark brown MF sand 1'-2' Shell rock fill	SP	Dry	
	6"-2'	18"			4.71	2					
							3				
							4				
							5				
							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

Boring/Well Number: SB-56		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Southwest Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 1:04 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	End Date: 4/17/19	
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Osorio / Meike de Vriesinger	
Drilling Company: JAEE	Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.2A	1	0"-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.59	2	1.5'-2' MF sand tan			
							3				
							4				
							5				
							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: SB- 57		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:51 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 11:56 <input type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEJ		Pavement Thickness (inches): 	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	1.92	1	0"-6" Dark gray M/F sand	SP	Dry	
	6"-2'	18"	/	/	/	2.37	2	6"-1' Shell rock fill			
							3	1'-2' Gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 58		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/5/19	Borehole Start Time: 2:34	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/5/19	End Time: 2:35	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<	1	Grass	SP	Dry	
	6"-2'	18"				<	2	0"-1.5' Dark brown MF sand 1.5'-2' MF sand - Tan			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 59		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:10 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/15/19	End Time: 10:15 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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>
HA	0-6"	6"				2.21	1	0"-6" Dark brown MFsand organic top soil	SP	Dry	
	6"-2'	18"				3.17	2	6"-1' Shellrock fill			
							3	1'-2' Dark brown MFsand/ Dark tan			
							4				
							5				
							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

Boring/Well Number: SB- 60		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 11:56 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/17/19	End Time: 11:59 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): 1"	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				4.76	1	0'-2' Dark brown MF sand w/ rock frags	SP	Dry	
	6"-2'	18"				7.33	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 61		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:50	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 2:52	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): NA	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 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)	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)
HA	0-6"	6"		/		< 1	1	0-1 dark brown MF sand	SP	Dry	
	6"-2'	18"				< 1	2	1-2 tan MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB-62		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 12:58	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:04	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
FD	0-6"	6"	/	/	/	8.74	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	1.76	2	6"-1.5' Shell rock fill			
							3	1.5'-2' gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 63		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:46	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 2:48	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): NA	Measured Well DTW (in feet after water recharges in well): NA	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 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)	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)
HA	0-6"	6"				2	0-1	dark brown MF sand	SP	Dry	
	6"-2'	18"				<1	1-2	tan MF sand w/ rock shell fragment (1-2')			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 6A		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:15	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:15	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	Unfiltered OVA	Filtered OVA	X 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)
#	0-6"	6"				3.93	1	0"-6" Dark brown MF sand	SP	Dry	
	6"-2'	18"				3.7	2	6"-1.5' shell rock fill			
							3	1.5'-2' Dark brown MF sand			
							4				
							5				
							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

Boring/Well Number: SB- 65		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:15	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 10:20	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				2.7	1	GRASS 0"-6" Dark brown MFSand 6"-2' Dark brown MFSand w/rock frags	SP	Dry	
	6"-2'	18"				3.72	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB-66		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:12	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:19	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				0.9	1	0'-1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"				0.6	2	1.5'-2' Gray MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 67		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:17	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:19	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				2.93	1	0'-6" Dark gray MF sand	SP	Dry	
	6"-2'	12"				3.03	2	6'-1' Shellrock fill			
							3	1'-2' Dark gray MF sand			
							4				
							5				
							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: SB- 68		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 10:20	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 10:25	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				11.6A	1	Grass	SP	Dry	
	6"-2'	18"				4.4	2	0"-6" Dark brown MF soil			
							3	6"-2" shell rock fill			
							4				
							5				
							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: SB - 69		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:30	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:31	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Garcia/Moise de Vringer	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.18	1	0' - 1.5' Dark gray MF sand w/ rock fragments 1.5' - 2' Shell rock tan - fill	SP	Dry	
	6"-2'	18"	/	/	/	1.8A	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 70		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:42	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:45	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	0.82	1	Grass 0" - 1.5' Dark brown w/sand w/rock	SP	Dry	
	6"-2'	18"				1.09	2				
							3	1.5' - 2' Shell rock fill			
							4				
							5				
							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

Boring/Well Number: SB- 71		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:46 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: 4/15/19	End Time: 11:48 AM <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEЕ		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)								
HA	0-6"	6"				2.53	1	Grass 0"-6" Dark brown MF sand 6"-1.5' Gray MF sand 1.5'-2' Shell rock fill	SP	Dry									
	6"-2'	18"			1.6	2	3				4	5	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 1 of _____

Boring/Well Number: SB- 72		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:40	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/15/19	End Time: 12:42	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)	
HA	0-6"	6"				1.65	1	0'-1' GRASS	SP	Dry		
	6"-2'	18"				1.55	2	1'-1.5' Dark brown MF sand				
							3	1'-1.5' Shell rock fill				
							4	1.5'-2' Gray MF sand				
							5					
							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

Boring/Well Number: SB- 73		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:50	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:53	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.95	1	0"-1.5' Brown MF sand	SP	Dry	
	6"-2'	18"				1.82	2	1.5'-2' Shell rock fill			
							3				
							4				
							5				
							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

Boring/Well Number: SB-7A		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:30	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:36	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Ogozco / Meikre de Vries	
Drilling Company: JAEE	Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				0.21	1	0" - 1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"				0.32	2	1.5' - 2' Shell rock fill dark tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB-75		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:36	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:39	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindy Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vrijnger	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0'-6"	6"	/	/	/	0.16	1	0'-6" Dark gray MF sand	SP	Dsy	
	6'-2'	18"	/	/	/	0.43	2	6'-1.5" gray MF sand w/rock frags. 1.5'-2' shell rock			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 76		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:37	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 12:39	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.22	1	Grass	SP	Dry	
	6"-2'	18"				0.93	2	0-6" Dark brown MF sand			
							3	6"-1.5' shell rock Tan			
							4	1.5"-2' Gray MF sand			
							5				
							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

Boring/Well Number: SB- 77		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:54 AM	End Date: 4/15/19	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				2.38	1	Grass 0" - 1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"				1.71	2	1.5-2' Shell rock-fill tan			
							3				
							4				
							5				
							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 1 of _____

Boring/Well Number: SB- 78		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 2:30	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 2:34	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.05	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"				1.08	2	6"-1.5' shellrock fill/MF sand gray			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB-79		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 2:25 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
		End Date: 4/17/19	End Time: 2:29 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vrieger	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0-6"	6"				1.5	1	0"-6" Dark gray MF sand	SP	Dry	
	6"-2'	18"				3.46	2	6"-1.5' Shellrock fill-tan			
							3	1.5'-2' Dark gray MF sand			
							4				
							5				
							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

Boring/Well Number: SB-20 20		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:41 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
		End Date: 4/17/19	End Time: 1:43 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunat		Environmental Technician's Name: Andrea Orozco/Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0-6"	6"	/	/	/	<1	1	0"-1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	<1	2	1.5'-2' Gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 81		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:03	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 2:05	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<1	1	0"-1" dark brown MF sand	sp	Dry	
	6"-2'	18"				<1	2	1"-2" MF sand-tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 82		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 1:45	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 1:48	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"		/	/	< 1	1	0'-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"				< 1	2	1.5'-2' Shell rock fill			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 83		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:31	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 12:33	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content):	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 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)	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)
HA	0-6"	6"				1.97	1	Grass	SP	dry	
	6"-2'	18"				1.45	2	0"-1' Dark brown MF sand			
							3	1"-2' Shell rock/MF gray sand			
							4				
							5				
							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 1 of

Boring/Well Number: SB- <u>2A</u>		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 11:57	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
		End Date: 4/15/19	End Time: 11:59	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
# A	0-6"	6"				2.47	1	Grass 0"-1.5' Brown MF sand	SP	Dry	
	6"-2'	18"				1.2	2	1.5'-2' Shell rock fill			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 85		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 2:38	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/17/19	End Time: 2:40	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)		
HA	0-6"	6"	/	/	/	1.59	1	0" - 1' Dark ^{gray} brown MF sand 1' - 1.5' MF sand dark tan 1.5' - 2' MF sand dark brown gray	SP	Dry			
	6"-2'	18"	/	/	/	0.69	2						
	3												
	4												
	5												
	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

Boring/Well Number: SB- 86		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/19/19	Borehole Start Time: 2:31	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 2:38	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEI		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
# *	0-6"	6"	/	/	/	0.6A	1	0'-1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.86	2	1.5'-2' MF sand dark tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 87		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 1:47	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 1:49	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): /	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<1	1	Grass 0"-6" Dark brown MF sand	SP	Dry	
	6"-2'	18"				<1	2	6"-1.5' MF sand - Tan			
								1.5'-2' Brown MF sand			

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-88		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse Continental Park		Borehole Start Date: 4/17/19		Borehole Start Time: 1:49 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/17/19		End Time: 1:51 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Osozco / Melissa deVringer	
Drilling Company: JAEE		Pavement Thickness (inches):		Borehole Diameter (inches): 2"	
				Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A		Measured Well DTW (in feet after water recharges in well): N/A	
				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 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)	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)
HA	0-6"	6"	/	/	/	0.31	1	0"-6" Dark brown MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.29	2	6"-2' Brown MF sand w/ rock fragments			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 89		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 2:00	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/15/19	End Time: 2:02	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "/	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				<	1	0" - 1" Dark brown MF sand	SP	Dry	
	6"-2'	18"				<	2	1' - 2' MF Sand - Tan			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 90		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:27	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 12:30	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE	Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'		
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				0.93	1	Grass 0"-1' Dark brown MF sand	SP	Dry	
	6"-2'	18"				1.35	2	1'-1.5' Shellrock fill Tan			
							3	1.5'-2' Brown MF sand w/ rock			
							4				
							5				
							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

Boring/Well Number: SB- 91		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:01	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 12:09	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				6.65	1	GRASS	SP	Dry	
	6"-2'	18"				3.07	2	0" - 1.5' Dark brown MF sand		w/brk frags.	
							3	1.5' - 2' Gray sandy clay			
							4				
							5				
							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

Boring/Well Number: SB- 92		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/7/19	Borehole Start Time: 2:43	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/7/19	End Time: 2:45	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	36.92	1	0"-1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	A.83	2	1.5'-2' Tan MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: 50-93		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19	Borehole Start Time: 1:43	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 1:46	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Benzo / Meike de Vrieger	
Drilling Company: JAE		Pavement Thickness (inches):	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	2.9	1	0" - 2' Gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.73	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB-9A		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/17/19	Borehole Start Time: 2:40	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/17/19	End Time: 2:43	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"	/	/	/	3.45	1	0"-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.8A	2	1.5'-2' Gray MF sand			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 95		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 1:50	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 1:52	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)	
HA	0-6"	6"				1	1	Grass	SP	Dry		
	6"-2'	18"				<1	1	0" - 1' Dark brown MF sand w/brick frags.				
							2	1' - 1.5' Shell rock				
								3	1.5' - 2' Dark brown MF sand			
								4				
								5				
								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

Boring/Well Number: SB- 96		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 1:54	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 1:56	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAEE		Pavement Thickness (inches): "/	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"					1	0"-1' Dark brown MF sand	SP	Dry	
	6"-2'	18"					2	0'-2' Shell rock fill / MF gray sand	SP		
							3				
							4				
							5				
							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

Boring/Well Number: SB- 97		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:23	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 12:25	<input type="checkbox"/> AM	<input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.2	1	Grass	SP	Dry	
	6"-2'	18"				1.07	2	0"-6" 6"-2' shell rock MF sand dark brown			
							3				
							4				
							5				
							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

Boring/Well Number: SB-98		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse		Borehole Start Date: 4/17/19		Borehole Start Time: 1:46 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/17/19		End Time: 1:49 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Ojeda / Marke deVinger	
Drilling Company: JAEE		Pavement Thickness (inches):		Borehole Diameter (inches): 2"	
				Borehole Depth (feet): 2'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): N/A		Measured Well DTW (in feet after water recharges in well): N/A	
				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 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)	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)
HA	0-6"	6"	/	/	/	0.3	1	Grass 0'-1.5' Dark gray MF sand	SP	Dry	
	6"-2'	18"	/	/	/	0.21	2	1.5'-2' Gray MF sand w/rock fragments			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 99		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/7/19	Borehole Start Time: 2:45	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/7/19	End Time: 2:48	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				45.09	1	0" - 2' Dark gray MF sand w/rock fragments	SP	Dry	
	6"-2'	18"				1.37	2				
							3				
							4				
							5				
							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

Boring/Well Number: SB- 100		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 1:57		<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
		End Date: 4/15/19	End Time: 1:58		<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"		Borehole Depth (feet): 2'
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A		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 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)	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)
HA	0-6"	6"				A	1	Grass	SP	Dry	
	6"-2'	18"				I	2	0"-2' Dark brown MF sand w/rock frags			
							3				
							4				
							5				
							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

Boring/Well Number: SB- 101		Permit Number:		FDEP Facility Identification Number:	
Site Name: Future Courthouse, downtown Miami		Borehole Start Date: 4/15/19	Borehole Start Time: 12:20	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
		End Date: 4/15/19	End Time: 12:22	<input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: Smart-Sciences, Inc.		Geologist's Name: Cindi Brunot		Environmental Technician's Name: Andrea Orozco / Meike de Vringer	
Drilling Company: JAE		Pavement Thickness (inches): "	Borehole Diameter (inches): 2"	Borehole Depth (feet): 2'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): N/A	Measured Well DTW (in feet after water recharges in well): N/A	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 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)	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)
HA	0-6"	6"				1.4	1	0'-1.5' Dark brown MF sand	SP	Dry	
	6"-2'	18"				1.35	2	1.5'-2' Shellrock fill			
							3				
							4				
							5				
							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

APPENDIX C

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: CHMW-01	Site Name: Future Courthouse	FDEP Facility I.D. Number:	Well Install Date(s): 05/02/19		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: HSA	
If AG, list feet of riser above land surface:				Surface Casing Install Method: N/A	
Borehole Depth (feet): 15	Well Depth (feet): 15	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): 8"	Well Pad Size: 18" feet by 18" feet	
Riser Diameter and Material: 1.5" PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from 0 feet to 5 feet		
Screen Diameter and Material: 1.5" PVC		Screen Slot Size: 0.01	Screen Length: 10 feet from 5 feet to 15 feet		
1 st Surface Casing Material: also check: <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches): 1"	1 st Surface Casing Length: _____ feet from 0 feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet		
Filter Pack Material and Size: 20/30		Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 12 feet from 15 feet to 3 feet		
Filter Pack Seal Material and Size: 30/65			Filter Pack Seal Length: 1 feet from 2 feet to 3 feet		
Surface Seal Material: Neat grout			Surface Seal Length: 2 feet from 2 feet to 0 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 05/02/19	Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input checked="" type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	Depth to Groundwater (before developing in feet): 6.58		
Pumping Rate (gallons per minute): 1 gal/min	Maximum Drawdown of Groundwater During Development (feet): 7.64	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 25	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Milky		Water Appearance (color and odor) At End of Development: clear	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

APPENDIX 1E

- Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
Delegated Authority (If Applicable)

PLEASE FILL OUT ALL APPLICABLE FIELDS (*Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 13-59-15358
Florida Unique ID
Permit Stipulations Required (See Attached)
82-524 Quad No.
Delineation No.
CUP/WUP Application No.

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. Miami-Dade County 111 NW 1 St Miami FL 33128
Owner: Legal Name If Corporation: 20 NW 1 Ave, Miami 33130
Well Location - Address, Road Name or Number, City: 01-4137-027-0010
Parcel ID No. (PIN) or Alternate Key (Circle One): Dade
Section or Land Grant: Erin Fromm
Township: Range: 11313
County: Subdivision: 954-476-8333
Water Well Contractor: 3101 Peachtree Cir
License Number: Telephone Number: 541-476-8333
E-mail Address: jae@bellsouth.net
Water Well Contractor's Address: City: State: ZIP: 33328

7. Type of Work: Construction
8. Number of Proposed Wells: 4
9. Specify Intended Use(s) of Well(s):
Domestic, Landscape Irrigation, Agricultural Irrigation, Site Investigation, Monitoring, Test, Earth-Coupled Geothermal, HVAC Supply, HVAC Return
Class V Injection: Recharge, Commercial/Industrial Disposal, Aquifer Storage and Recovery
Remediation: Recovery, Air Sparge, Other
Date Stamp: APPROVED
FLORIDA HEALTH MIAMI-DADE COUNTY
PERMIT # 13-59-15358
3-8-19
Official Use Only

10. Distance from Septic System if < 200 ft.: n/a
11. Facility Description
12. Estimated Start Date: 3/7/19
13. Estimated Well Depth: 15 ft.
Estimated Casing Depth: 5 ft.
Primary Casing Diameter: 1.5 in.
Open Hole: From To ft.
14. Estimated Screen Interval: From 5 To 15 ft.
15. Primary Casing Material: Black Steel, Galvanized, PVC, Stainless Steel
16. Secondary Casing: Telescope Casing, Liner, Surface Casing
Diameter in.
17. Secondary Casing Material: Black Steel, Galvanized, PVC, Stainless Steel, Other
18. Method of Construction, Repair, or Abandonment: Auger, Cable Tool, Jetted, Rotary, Sonic, Combination (Two or More Methods), Hand Driven (Well Point, Sand Point), Hydraulic Point (Direct Push), Horizontal Drilling, Plugged by Approved Method, Other (Describe)
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From To Seal Material (Bentonite, Neat Cement, Other)

20. Indicate total number of existing wells on site
List number of existing unused wells on site
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? Yes No
22. Latitude Longitude
23. Data Obtained From: GPS, Map, Survey
Datum: NAD 27, NAD 83, WGS 84
Signature of Contractor: License No.: 11313
Signature of Owner or Agent: Date: 3/5/19

Approval Granted By: FRANTZ TOUSSAINT
Issue Date: 3-8-19
Expiration Date: 3-7-20
Hydrologist Approval: Initials
Fee Received: \$ 90.00
Receipt No.: 13-BID-4092011
Check No.: paid 3/5/19
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.



March 4, 2019

Mr. Astrik Edwards
Miami-Dade County Health Department
11805 SW 26th Street
Miami, Florida 33175

**Subject: Groundwater Monitoring Well Installation Activities
Future Civil and Probate Courthouse
Located Northwest of Intersection of W Flagler Street and NW 1st Avenue
Miami, Miami-Dade County, Florida**

Dear Mr. Edwards:

Arcadis U.S., Inc., has been retained by Miami Department of Regulatory and Economic Resources (RER) to coordinate the installation of five groundwater monitoring wells at the above-referenced site. Smart-Sciences is working as a subcontractor to Arcadis on this project.

Smart-Sciences has retained Mr. Willie Smitherman of JAEE Environmental Services, Inc. (JAEE), a Florida licensed water well contractor, to install the monitoring wells. Please accept this letter as authorization for JAEE to apply for and procure the necessary water well construction.

Please do not hesitate to contact our office at 786.313.3977 with any questions or require additional information.

Sincerely,
SMART-SCIENCES, INC.

Gisele L. Colbert, M.S.
Principal Scientist

APPENDIX 1E



Address Owner Name Subdivision Name Folio

SEARCH:

73 w flagler

Suite



[Back to Search Results](#)

PROPERTY INFORMATION

Folio: 01-4137-027-0010

Sub-Division:
DOWNTOWN GOVERNMENT CENTER 1ST ADDN

Property Address
20 NW 1 AVE
MIAMI, FL 33130-1636

Owner
MIAMI-DADE COUNTY
GSA R/E MGMT-DGC LIBRARY

Mailing Address
111 NW 1 ST STE 2400
MIAMI, FL 33128-1929

PA Primary Zone
8000 COMMUNITY FACILITIES

Primary Land Use
8647 COUNTY : DADE COUNTY

Beds / Baths / Half 0 / 0 / 0

Floors 1

Living Units 0

Actual Area

Living Area

Adjusted Area 1 Sq.Ft

Lot Size 188,364 Sq.Ft

Year Built 1980



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[Value Adjustment Board](#)

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[Tax Comparison](#)

[Property Record Cards](#)
[Tax Estimator](#)

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[TRIM Notice](#)

ASSESSMENT INFORMATION

Year	2018	2017	2016
Land Value	\$33,903,720	\$33,903,720	\$33,903,720
Building Value	\$9,878,600	\$9,878,600	\$9,878,600
Extra Feature Value	\$0	\$0	\$0
Market Value	\$43,782,320	\$43,782,320	\$43,782,320
Assessed Value	\$43,782,320	\$43,782,320	\$43,782,320

BENEFITS INFORMATION

Benefit	Type	2018	2017
County	Exemption	\$43,782,320	\$43,782,320

Note: Not all benefits are applicable to all Taxable Values (i.e. County, School Board, City, Regional).

FULL LEGAL DESCRIPTION

APPENDIX D

APPENDIX E

April 23, 2019

Meike de Vringer
Smart-Sciences
330 SW 27th Avenue
Suite 504
Miami, FL 33135

RE: Project: Future Courthouse
Pace Project No.: 35461863

Dear Meike Vringer:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Gisele Colbert, Smart-Sciences
Anthony Larenas, Arcadis
Patrick O'Connell, Arcadis
Stephanie Pilar, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Future Courthouse
Pace Project No.: 35461863

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Future Courthouse
Pace Project No.: 35461863

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35461863001	SBC - 8 (0-6)	Solid	04/15/19 14:55	04/16/19 18:14
35461863002	SBC - 8 (6-2)	Solid	04/15/19 14:55	04/16/19 18:14
35461863003	SBC - 9 (0-6)	Solid	04/15/19 11:23	04/16/19 18:14
35461863004	SBC - 9 (6-2)	Solid	04/15/19 11:23	04/16/19 18:14
35461863005	SBC - 10 (0-6)	Solid	04/15/19 10:35	04/16/19 18:14
35461863006	SBC - 10 (6-2)	Solid	04/15/19 10:35	04/16/19 18:14
35461863007	SBC - 13 (0-6)	Solid	04/15/19 14:09	04/16/19 18:14
35461863008	SBC - 13 (6-2)	Solid	04/15/19 14:09	04/16/19 18:14
35461863009	SBC - 14 (0-6)	Solid	04/15/19 12:51	04/16/19 18:14
35461863010	SBC - 14 (6-2)	Solid	04/15/19 12:51	04/16/19 18:14
35461863011	SBC - 15 (0-6)	Solid	04/15/19 12:10	04/16/19 18:14
35461863012	SBC - 15 (6-2)	Solid	04/15/19 12:10	04/16/19 18:14
35461863013	SBC - 10 (0-6)	Solid	04/15/19 15:07	04/16/19 18:14
35461863014	SBC - 15 (0-6)	Solid	04/15/19 15:07	04/16/19 18:14
35461863015	SBC - 4 (0-6)	Solid	04/15/19 09:55	04/16/19 18:14
35461863017	SBC - 4 (6-2)	Solid	04/16/19 09:55	04/16/19 18:14

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse
Pace Project No.: 35461863

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35461863001	SBC - 8 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863002	SBC - 8 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863003	SBC - 9 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863004	SBC - 9 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863005	SBC - 10 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863006	SBC - 10 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863007	SBC - 13 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863008	SBC - 13 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863009	SBC - 14 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863010	SBC - 14 (6-2)	FL-PRO	BP2	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse

Pace Project No.: 35461863

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35461863011	SBC - 15 (0-6)	EPA 6010	JWP	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
		FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
35461863012	SBC - 15 (6-2)	EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
		FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	TWB	21	PASI-O
35461863013	SBC - 10 (0-6)	ASTM D2974-87	CLT	1	PASI-O
		EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863014	SBC - 15 (0-6)	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35461863015	SBC - 4 (0-6)	EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
		FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
35461863017	SBC - 4 (6-2)	ASTM D2974-87	CLT	1	PASI-O
		FL-PRO	BP2	3	PASI-O
		EPA 6010	LEC, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863001	SBC - 8 (0-6)					
FL-PRO	Petroleum Range Organics	306	mg/kg	5.1	04/19/19 08:20	
EPA 6010	Arsenic	99.2	mg/kg	0.63	04/22/19 22:20	J(M1),M6
EPA 6010	Cadmium	0.32	mg/kg	0.063	04/22/19 22:20	
EPA 6010	Chromium	10.1	mg/kg	0.32	04/22/19 22:20	
EPA 6010	Lead	89.3	mg/kg	0.63	04/22/19 22:20	J(M1)
EPA 8270	Acenaphthylene	0.65	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Anthracene	0.69	mg/kg	0.23	04/18/19 14:42	D3
EPA 8270	Benzo(a)anthracene	1.6	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Benzo(a)pyrene	2.0	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Benzo(b)fluoranthene	2.7	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Benzo(g,h,i)perylene	1.6	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Benzo(k)fluoranthene	0.93	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Chrysene	2.1	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Dibenz(a,h)anthracene	0.37	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Fluoranthene	2.7	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	1.3	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	1-Methylnaphthalene	0.18 l	mg/kg	0.26	04/18/19 14:42	D3
EPA 8270	2-Methylnaphthalene	0.21 l	mg/kg	0.25	04/18/19 14:42	D3
EPA 8270	Naphthalene	0.19 l	mg/kg	0.23	04/18/19 14:42	D3
EPA 8270	Phenanthrene	0.96	mg/kg	0.22	04/18/19 14:42	D3
EPA 8270	Pyrene	3.7	mg/kg	0.22	04/18/19 14:42	D3
ASTM D2974-87	Percent Moisture	21.5	%	0.10	04/17/19 14:56	
35461863002	SBC - 8 (6-2)					
FL-PRO	Petroleum Range Organics	125	mg/kg	4.4	04/19/19 08:04	
EPA 6010	Arsenic	69.4	mg/kg	0.58	04/22/19 22:36	
EPA 6010	Cadmium	0.15	mg/kg	0.058	04/22/19 22:36	
EPA 6010	Chromium	5.6	mg/kg	0.29	04/22/19 22:36	
EPA 6010	Lead	69.9	mg/kg	0.58	04/22/19 22:36	
EPA 8270	Acenaphthylene	0.18 l	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Anthracene	0.16 l	mg/kg	0.20	04/18/19 15:07	D3
EPA 8270	Benzo(a)anthracene	0.44	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Benzo(a)pyrene	0.54	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Benzo(b)fluoranthene	0.73	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Benzo(g,h,i)perylene	0.49	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Benzo(k)fluoranthene	0.28	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Chrysene	0.58	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Dibenz(a,h)anthracene	0.11 l	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Fluoranthene	0.74	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	0.38	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	1-Methylnaphthalene	0.15 l	mg/kg	0.22	04/18/19 15:07	D3
EPA 8270	2-Methylnaphthalene	0.18 l	mg/kg	0.21	04/18/19 15:07	D3
EPA 8270	Naphthalene	0.15 l	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Phenanthrene	0.32	mg/kg	0.19	04/18/19 15:07	D3
EPA 8270	Pyrene	0.95	mg/kg	0.19	04/18/19 15:07	D3
ASTM D2974-87	Percent Moisture	8.2	%	0.10	04/17/19 14:57	J(D6)

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863003	SBC - 9 (0-6)					
FL-PRO	Petroleum Range Organics	135	mg/kg	14.6	04/18/19 12:14	P1
EPA 6010	Arsenic	20.0	mg/kg	0.75	04/22/19 22:40	
EPA 6010	Cadmium	0.29	mg/kg	0.075	04/22/19 22:40	
EPA 6010	Chromium	12.9	mg/kg	0.38	04/22/19 22:40	
EPA 6010	Lead	113	mg/kg	0.75	04/22/19 22:40	
EPA 8270	Anthracene	0.087 l	mg/kg	0.15	04/18/19 15:32	P1
EPA 8270	Benzo(a)anthracene	0.42	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Benzo(a)pyrene	0.44	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Benzo(b)fluoranthene	0.62	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Benzo(g,h,i)perylene	0.37	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Benzo(k)fluoranthene	0.24	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Chrysene	0.53	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Dibenz(a,h)anthracene	0.094 l	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Fluoranthene	0.79	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.31	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Phenanthrene	0.40	mg/kg	0.14	04/18/19 15:32	P1
EPA 8270	Pyrene	0.79	mg/kg	0.14	04/18/19 15:32	P1
ASTM D2974-87	Percent Moisture	31.6	%	0.10	04/17/19 14:57	
35461863004	SBC - 9 (6-2)					
FL-PRO	Petroleum Range Organics	8.1 l	mg/kg	12.7	04/18/19 12:14	P1
EPA 6010	Arsenic	15.8	mg/kg	0.73	04/22/19 22:52	
EPA 6010	Cadmium	0.20	mg/kg	0.073	04/22/19 22:52	
EPA 6010	Chromium	11.4	mg/kg	0.36	04/22/19 22:52	
EPA 6010	Lead	253	mg/kg	7.3	04/23/19 15:04	
EPA 8270	Benzo(a)anthracene	0.070 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Benzo(a)pyrene	0.066 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Benzo(b)fluoranthene	0.10 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Benzo(g,h,i)perylene	0.057 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Benzo(k)fluoranthene	0.042 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Chrysene	0.090 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Fluoranthene	0.099 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.049 l	mg/kg	0.13	04/18/19 15:57	P1
EPA 8270	Pyrene	0.11 l	mg/kg	0.13	04/18/19 15:57	P1
ASTM D2974-87	Percent Moisture	25.7	%	0.10	04/17/19 14:57	
35461863005	SBC - 10 (0-6)					
FL-PRO	Petroleum Range Organics	3.6 l	mg/kg	4.7	04/18/19 12:29	
EPA 6010	Arsenic	17.6	mg/kg	0.67	04/22/19 22:56	
EPA 6010	Cadmium	0.23	mg/kg	0.067	04/22/19 22:56	
EPA 6010	Chromium	9.8	mg/kg	0.34	04/22/19 22:56	
EPA 6010	Lead	42.3	mg/kg	0.67	04/22/19 22:56	
EPA 8270	Acenaphthylene	0.040 l	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Anthracene	0.063	mg/kg	0.043	04/18/19 16:22	
EPA 8270	Benzo(a)anthracene	0.28	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Benzo(a)pyrene	0.29	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Benzo(b)fluoranthene	0.43	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Benzo(g,h,i)perylene	0.25	mg/kg	0.040	04/18/19 16:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863005	SBC - 10 (0-6)					
EPA 8270	Benzo(k)fluoranthene	0.16	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Chrysene	0.34	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Dibenz(a,h)anthracene	0.062	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Fluoranthene	0.51	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.21	mg/kg	0.040	04/18/19 16:22	
EPA 8270	1-Methylnaphthalene	0.020	l mg/kg	0.047	04/18/19 16:22	
EPA 8270	2-Methylnaphthalene	0.024	l mg/kg	0.046	04/18/19 16:22	
EPA 8270	Naphthalene	0.020	l mg/kg	0.042	04/18/19 16:22	
EPA 8270	Phenanthrene	0.19	mg/kg	0.040	04/18/19 16:22	
EPA 8270	Pyrene	0.52	mg/kg	0.040	04/18/19 16:22	
ASTM D2974-87	Percent Moisture	15.8	%	0.10	04/17/19 14:57	
35461863006	SBC - 10 (6-2)					
FL-PRO	Petroleum Range Organics	8.2	l mg/kg	12.9	04/18/19 12:29	P1
EPA 6010	Arsenic	46.4	mg/kg	0.56	04/22/19 23:00	
EPA 6010	Cadmium	0.65	mg/kg	0.056	04/22/19 23:00	
EPA 6010	Chromium	13.5	mg/kg	0.28	04/22/19 23:00	
EPA 6010	Lead	232	mg/kg	5.6	04/23/19 15:08	
EPA 8270	Benzo(a)anthracene	0.11	l mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Benzo(a)pyrene	0.12	l mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Benzo(b)fluoranthene	0.17	mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Benzo(g,h,i)perylene	0.098	l mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Benzo(k)fluoranthene	0.091	l mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Chrysene	0.15	mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Fluoranthene	0.13	mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.087	l mg/kg	0.13	04/18/19 16:47	P1
EPA 8270	Pyrene	0.16	mg/kg	0.13	04/18/19 16:47	P1
ASTM D2974-87	Percent Moisture	22.9	%	0.10	04/17/19 14:57	
35461863007	SBC - 13 (0-6)					
FL-PRO	Petroleum Range Organics	137	mg/kg	4.7	04/19/19 08:04	
EPA 6010	Arsenic	75.6	mg/kg	0.66	04/22/19 23:05	
EPA 6010	Cadmium	0.36	mg/kg	0.066	04/22/19 23:05	
EPA 6010	Chromium	14.9	mg/kg	0.33	04/22/19 23:05	
EPA 6010	Lead	93.2	mg/kg	0.66	04/22/19 23:05	
EPA 8270	Acenaphthene	0.019	l mg/kg	0.043	04/18/19 17:12	
EPA 8270	Acenaphthylene	0.046	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Anthracene	0.087	mg/kg	0.043	04/18/19 17:12	
EPA 8270	Benzo(a)anthracene	0.40	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Benzo(a)pyrene	0.45	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Benzo(b)fluoranthene	0.62	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Benzo(g,h,i)perylene	0.34	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Benzo(k)fluoranthene	0.22	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Chrysene	0.48	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Dibenz(a,h)anthracene	0.080	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Fluoranthene	0.68	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.27	mg/kg	0.040	04/18/19 17:12	
EPA 8270	1-Methylnaphthalene	0.044	l mg/kg	0.048	04/18/19 17:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863007	SBC - 13 (0-6)					
EPA 8270	2-Methylnaphthalene	0.049	mg/kg	0.046	04/18/19 17:12	
EPA 8270	Naphthalene	0.031	l	0.042	04/18/19 17:12	
EPA 8270	Phenanthrene	0.33	mg/kg	0.040	04/18/19 17:12	
EPA 8270	Pyrene	0.82	mg/kg	0.040	04/18/19 17:12	
ASTM D2974-87	Percent Moisture	14.6	%	0.10	04/17/19 14:57	
35461863008	SBC - 13 (6-2)					
FL-PRO	Petroleum Range Organics	160	mg/kg	4.6	04/19/19 07:49	
EPA 6010	Arsenic	81.3	mg/kg	0.62	04/22/19 23:09	
EPA 6010	Cadmium	0.22	mg/kg	0.062	04/22/19 23:09	
EPA 6010	Chromium	5.7	mg/kg	0.31	04/22/19 23:09	
EPA 6010	Lead	156	mg/kg	6.2	04/23/19 15:12	
EPA 8270	Acenaphthene	0.24	mg/kg	0.21	04/18/19 17:37	D3
EPA 8270	Anthracene	0.49	mg/kg	0.21	04/18/19 17:37	D3
EPA 8270	Benzo(a)anthracene	2.0	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Benzo(a)pyrene	1.8	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Benzo(b)fluoranthene	2.3	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Benzo(g,h,i)perylene	1.3	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Benzo(k)fluoranthene	0.89	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Chrysene	2.2	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Dibenz(a,h)anthracene	0.28	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Fluoranthene	4.5	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Fluorene	0.094	l	0.21	04/18/19 17:37	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	1.0	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Phenanthrene	3.3	mg/kg	0.19	04/18/19 17:37	D3
EPA 8270	Pyrene	4.7	mg/kg	0.19	04/18/19 17:37	D3
ASTM D2974-87	Percent Moisture	12.5	%	0.10	04/17/19 14:57	
35461863009	SBC - 14 (0-6)					
FL-PRO	Petroleum Range Organics	93.1	mg/kg	4.6	04/19/19 07:49	
EPA 6010	Arsenic	11.4	mg/kg	0.65	04/23/19 12:24	
EPA 6010	Cadmium	0.17	mg/kg	0.065	04/23/19 12:24	
EPA 6010	Chromium	9.9	mg/kg	0.32	04/23/19 12:24	
EPA 6010	Lead	36.1	mg/kg	0.65	04/23/19 12:24	
EPA 8270	Acenaphthylene	0.017	l	0.039	04/18/19 18:02	
EPA 8270	Anthracene	0.030	l	0.041	04/18/19 18:02	
EPA 8270	Benzo(a)anthracene	0.14	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Benzo(a)pyrene	0.16	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Benzo(b)fluoranthene	0.23	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Benzo(g,h,i)perylene	0.12	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Benzo(k)fluoranthene	0.091	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Chrysene	0.18	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Dibenz(a,h)anthracene	0.028	l	0.039	04/18/19 18:02	
EPA 8270	Fluoranthene	0.22	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.097	mg/kg	0.039	04/18/19 18:02	
EPA 8270	1-Methylnaphthalene	0.031	l	0.046	04/18/19 18:02	
EPA 8270	2-Methylnaphthalene	0.036	l	0.045	04/18/19 18:02	
EPA 8270	Naphthalene	0.033	l	0.040	04/18/19 18:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863009	SBC - 14 (0-6)					
EPA 8270	Phenanthrene	0.11	mg/kg	0.039	04/18/19 18:02	
EPA 8270	Pyrene	0.26	mg/kg	0.039	04/18/19 18:02	
ASTM D2974-87	Percent Moisture	13.6	%	0.10	04/22/19 10:21	
35461863010	SBC - 14 (6-2)					
FL-PRO	Petroleum Range Organics	8.7	mg/kg	4.3	04/18/19 12:45	
EPA 6010	Arsenic	5.4	mg/kg	0.66	04/23/19 12:27	
EPA 6010	Cadmium	0.16	mg/kg	0.066	04/23/19 12:27	
EPA 6010	Chromium	5.3	mg/kg	0.33	04/23/19 12:27	
EPA 6010	Lead	54.7	mg/kg	0.66	04/23/19 12:27	
EPA 8270	Acenaphthylene	0.016	l	0.037	04/18/19 18:27	
EPA 8270	Benzo(a)anthracene	0.088	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Benzo(a)pyrene	0.14	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Benzo(b)fluoranthene	0.18	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Benzo(g,h,i)perylene	0.10	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Benzo(k)fluoranthene	0.083	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Chrysene	0.13	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Dibenz(a,h)anthracene	0.027	l	0.037	04/18/19 18:27	
EPA 8270	Fluoranthene	0.13	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.088	mg/kg	0.037	04/18/19 18:27	
EPA 8270	1-Methylnaphthalene	0.049	mg/kg	0.043	04/18/19 18:27	
EPA 8270	2-Methylnaphthalene	0.057	mg/kg	0.042	04/18/19 18:27	
EPA 8270	Naphthalene	0.049	mg/kg	0.038	04/18/19 18:27	
EPA 8270	Phenanthrene	0.076	mg/kg	0.037	04/18/19 18:27	
EPA 8270	Pyrene	0.16	mg/kg	0.037	04/18/19 18:27	
ASTM D2974-87	Percent Moisture	6.9	%	0.10	04/22/19 10:21	
35461863011	SBC - 15 (0-6)					
FL-PRO	Petroleum Range Organics	17.6	l	17.8	04/19/19 13:00	P1
EPA 6010	Arsenic	26.8	mg/kg	0.98	04/23/19 12:30	
EPA 6010	Cadmium	0.58	mg/kg	0.098	04/23/19 12:30	
EPA 6010	Chromium	13.3	mg/kg	0.49	04/23/19 12:30	
EPA 6010	Lead	179	mg/kg	0.98	04/23/19 12:30	
EPA 8270	Anthracene	0.10	l	0.18	04/18/19 18:52	P1
EPA 8270	Benzo(a)anthracene	0.37	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Benzo(a)pyrene	0.38	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Benzo(b)fluoranthene	0.53	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Benzo(g,h,i)perylene	0.25	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Benzo(k)fluoranthene	0.21	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Chrysene	0.42	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Dibenz(a,h)anthracene	0.072	l	0.17	04/18/19 18:52	P1
EPA 8270	Fluoranthene	0.59	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.22	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Naphthalene	0.10	l	0.18	04/18/19 18:52	P1
EPA 8270	Phenanthrene	0.32	mg/kg	0.17	04/18/19 18:52	P1
EPA 8270	Pyrene	0.64	mg/kg	0.17	04/18/19 18:52	P1
ASTM D2974-87	Percent Moisture	44.2	%	0.10	04/22/19 10:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35461863

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35461863012	SBC - 15 (6-2)					
FL-PRO	Petroleum Range Organics	4.6 l	mg/kg	5.3	04/19/19 13:16	
EPA 6010	Arsenic	31.7	mg/kg	0.78	04/23/19 12:32	
EPA 6010	Cadmium	0.29	mg/kg	0.078	04/23/19 12:32	
EPA 6010	Chromium	6.7	mg/kg	0.39	04/23/19 12:32	
EPA 6010	Lead	101	mg/kg	0.78	04/23/19 12:32	
EPA 8270	Acenaphthene	0.045 l	mg/kg	0.13	04/18/19 19:17	P1
EPA 8270	Anthracene	0.11 l	mg/kg	0.13	04/18/19 19:17	P1
EPA 8270	Benzo(a)anthracene	0.43	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Benzo(a)pyrene	0.39	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Benzo(b)fluoranthene	0.52	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Benzo(g,h,i)perylene	0.26	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Benzo(k)fluoranthene	0.20	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Chrysene	0.47	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Dibenz(a,h)anthracene	0.067 l	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Fluoranthene	0.96	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.22	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Phenanthrene	0.63	mg/kg	0.12	04/18/19 19:17	P1
EPA 8270	Pyrene	0.99	mg/kg	0.12	04/18/19 19:17	P1
ASTM D2974-87	Percent Moisture	23.8	%	0.10	04/22/19 10:21	
35461863013	SBC - 10 (0-6)					
ASTM D2974-87	Percent Moisture	37.6	%	0.10	04/22/19 10:21	
35461863014	SBC - 15 (0-6)					
ASTM D2974-87	Percent Moisture	9.9	%	0.10	04/22/19 10:22	
35461863015	SBC - 4 (0-6)					
FL-PRO	Petroleum Range Organics	499	mg/kg	24.7	04/19/19 17:56	D4
EPA 6010	Arsenic	16.5	mg/kg	0.68	04/23/19 11:38	
EPA 6010	Cadmium	0.12	mg/kg	0.068	04/23/19 11:38	
EPA 6010	Chromium	6.6	mg/kg	0.34	04/23/19 11:38	
EPA 6010	Lead	34.9	mg/kg	0.68	04/23/19 11:38	
EPA 8270	Anthracene	0.15 l	mg/kg	0.23	04/19/19 15:19	
EPA 8270	Benzo(a)anthracene	0.80	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Benzo(a)pyrene	0.75	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Benzo(b)fluoranthene	1.4	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Benzo(g,h,i)perylene	0.42	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Benzo(k)fluoranthene	0.49	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Chrysene	1.2	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Dibenz(a,h)anthracene	0.081 l	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Fluoranthene	2.3	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.37	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Phenanthrene	1.3	mg/kg	0.21	04/19/19 15:19	
EPA 8270	Pyrene	2.2	mg/kg	0.21	04/19/19 15:19	
ASTM D2974-87	Percent Moisture	19.1	%	0.10	04/22/19 10:22	J(D6)
35461863017	SBC - 4 (6-2)					
FL-PRO	Petroleum Range Organics	93.9	mg/kg	11.9	04/19/19 13:31	P1
EPA 6010	Arsenic	82.3	mg/kg	0.58	04/22/19 23:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35461863

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35461863017	SBC - 4 (6-2)					
EPA 6010	Cadmium	0.34	mg/kg	0.058	04/22/19 23:13	
EPA 6010	Chromium	9.3	mg/kg	0.29	04/22/19 23:13	
EPA 6010	Lead	173	mg/kg	5.8	04/23/19 15:16	
EPA 8270	Benzo(a)anthracene	0.14	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Benzo(a)pyrene	0.13	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Benzo(b)fluoranthene	0.22	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Benzo(g,h,i)perylene	0.067 l	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Benzo(k)fluoranthene	0.077 l	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Chrysene	0.18	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Fluoranthene	0.30	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.061 l	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Phenanthrene	0.15	mg/kg	0.12	04/19/19 15:44	P1
EPA 8270	Pyrene	0.30	mg/kg	0.12	04/19/19 15:44	P1
ASTM D2974-87	Percent Moisture	21.1	%	0.10	04/17/19 14:57	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 8 (0-6) **Lab ID: 35461863001** Collected: 04/15/19 14:55 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	306	mg/kg	5.1	3.2	1	04/18/19 06:06	04/19/19 08:20		
Surrogates									
o-Terphenyl (S)	101	%	66-136		1	04/18/19 06:06	04/19/19 08:20	84-15-1	
N-Pentatriacontane (S)	115	%	42-159		1	04/18/19 06:06	04/19/19 08:20	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	99.2	mg/kg	0.63	0.32	1	04/22/19 09:07	04/22/19 22:20	7440-38-2	J(M1), M6
Cadmium	0.32	mg/kg	0.063	0.032	1	04/22/19 09:07	04/22/19 22:20	7440-43-9	
Chromium	10.1	mg/kg	0.32	0.16	1	04/22/19 09:07	04/22/19 22:20	7440-47-3	
Lead	89.3	mg/kg	0.63	0.32	1	04/22/19 09:07	04/22/19 22:20	7439-92-1	J(M1)
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.075 U	mg/kg	0.23	0.075	5	04/18/19 03:39	04/18/19 14:42	83-32-9	D3
Acenaphthylene	0.65	mg/kg	0.22	0.068	5	04/18/19 03:39	04/18/19 14:42	208-96-8	D3
Anthracene	0.69	mg/kg	0.23	0.077	5	04/18/19 03:39	04/18/19 14:42	120-12-7	D3
Benzo(a)anthracene	1.6	mg/kg	0.22	0.062	5	04/18/19 03:39	04/18/19 14:42	56-55-3	D3
Benzo(a)pyrene	2.0	mg/kg	0.22	0.054	5	04/18/19 03:39	04/18/19 14:42	50-32-8	D3
Benzo(b)fluoranthene	2.7	mg/kg	0.22	0.058	5	04/18/19 03:39	04/18/19 14:42	205-99-2	D3
Benzo(g,h,i)perylene	1.6	mg/kg	0.22	0.055	5	04/18/19 03:39	04/18/19 14:42	191-24-2	D3
Benzo(k)fluoranthene	0.93	mg/kg	0.22	0.058	5	04/18/19 03:39	04/18/19 14:42	207-08-9	D3
Chrysene	2.1	mg/kg	0.22	0.069	5	04/18/19 03:39	04/18/19 14:42	218-01-9	D3
Dibenz(a,h)anthracene	0.37	mg/kg	0.22	0.050	5	04/18/19 03:39	04/18/19 14:42	53-70-3	D3
Fluoranthene	2.7	mg/kg	0.22	0.071	5	04/18/19 03:39	04/18/19 14:42	206-44-0	D3
Fluorene	0.078 U	mg/kg	0.24	0.078	5	04/18/19 03:39	04/18/19 14:42	86-73-7	D3
Indeno(1,2,3-cd)pyrene	1.3	mg/kg	0.22	0.050	5	04/18/19 03:39	04/18/19 14:42	193-39-5	D3
1-Methylnaphthalene	0.18 I	mg/kg	0.26	0.086	5	04/18/19 03:39	04/18/19 14:42	90-12-0	D3
2-Methylnaphthalene	0.21 I	mg/kg	0.25	0.083	5	04/18/19 03:39	04/18/19 14:42	91-57-6	D3
Naphthalene	0.19 I	mg/kg	0.23	0.075	5	04/18/19 03:39	04/18/19 14:42	91-20-3	D3
Phenanthrene	0.96	mg/kg	0.22	0.072	5	04/18/19 03:39	04/18/19 14:42	85-01-8	D3
Pyrene	3.7	mg/kg	0.22	0.069	5	04/18/19 03:39	04/18/19 14:42	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	56	%	24-98		5	04/18/19 03:39	04/18/19 14:42	4165-60-0	
2-Fluorobiphenyl (S)	66	%	29-101		5	04/18/19 03:39	04/18/19 14:42	321-60-8	
p-Terphenyl-d14 (S)	80	%	29-112		5	04/18/19 03:39	04/18/19 14:42	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.5	%	0.10	0.10	1		04/17/19 14:56		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 8 (6-2)** Lab ID: **35461863002** Collected: 04/15/19 14:55 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	125	mg/kg	4.4	2.8	1	04/18/19 06:06	04/19/19 08:04		
Surrogates									
o-Terphenyl (S)	102	%	66-136		1	04/18/19 06:06	04/19/19 08:04	84-15-1	
N-Pentatriacontane (S)	134	%	42-159		1	04/18/19 06:06	04/19/19 08:04	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	69.4	mg/kg	0.58	0.29	1	04/22/19 09:07	04/22/19 22:36	7440-38-2	
Cadmium	0.15	mg/kg	0.058	0.029	1	04/22/19 09:07	04/22/19 22:36	7440-43-9	
Chromium	5.6	mg/kg	0.29	0.14	1	04/22/19 09:07	04/22/19 22:36	7440-47-3	
Lead	69.9	mg/kg	0.58	0.29	1	04/22/19 09:07	04/22/19 22:36	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.064 U	mg/kg	0.20	0.064	5	04/18/19 03:39	04/18/19 15:07	83-32-9	D3
Acenaphthylene	0.18 I	mg/kg	0.19	0.058	5	04/18/19 03:39	04/18/19 15:07	208-96-8	D3
Anthracene	0.16 I	mg/kg	0.20	0.065	5	04/18/19 03:39	04/18/19 15:07	120-12-7	D3
Benzo(a)anthracene	0.44	mg/kg	0.19	0.053	5	04/18/19 03:39	04/18/19 15:07	56-55-3	D3
Benzo(a)pyrene	0.54	mg/kg	0.19	0.046	5	04/18/19 03:39	04/18/19 15:07	50-32-8	D3
Benzo(b)fluoranthene	0.73	mg/kg	0.19	0.049	5	04/18/19 03:39	04/18/19 15:07	205-99-2	D3
Benzo(g,h,i)perylene	0.49	mg/kg	0.19	0.046	5	04/18/19 03:39	04/18/19 15:07	191-24-2	D3
Benzo(k)fluoranthene	0.28	mg/kg	0.19	0.049	5	04/18/19 03:39	04/18/19 15:07	207-08-9	D3
Chrysene	0.58	mg/kg	0.19	0.059	5	04/18/19 03:39	04/18/19 15:07	218-01-9	D3
Dibenz(a,h)anthracene	0.11 I	mg/kg	0.19	0.043	5	04/18/19 03:39	04/18/19 15:07	53-70-3	D3
Fluoranthene	0.74	mg/kg	0.19	0.061	5	04/18/19 03:39	04/18/19 15:07	206-44-0	D3
Fluorene	0.066 U	mg/kg	0.20	0.066	5	04/18/19 03:39	04/18/19 15:07	86-73-7	D3
Indeno(1,2,3-cd)pyrene	0.38	mg/kg	0.19	0.042	5	04/18/19 03:39	04/18/19 15:07	193-39-5	D3
1-Methylnaphthalene	0.15 I	mg/kg	0.22	0.073	5	04/18/19 03:39	04/18/19 15:07	90-12-0	D3
2-Methylnaphthalene	0.18 I	mg/kg	0.21	0.070	5	04/18/19 03:39	04/18/19 15:07	91-57-6	D3
Naphthalene	0.15 I	mg/kg	0.19	0.064	5	04/18/19 03:39	04/18/19 15:07	91-20-3	D3
Phenanthrene	0.32	mg/kg	0.19	0.061	5	04/18/19 03:39	04/18/19 15:07	85-01-8	D3
Pyrene	0.95	mg/kg	0.19	0.058	5	04/18/19 03:39	04/18/19 15:07	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	62	%	24-98		5	04/18/19 03:39	04/18/19 15:07	4165-60-0	
2-Fluorobiphenyl (S)	73	%	29-101		5	04/18/19 03:39	04/18/19 15:07	321-60-8	
p-Terphenyl-d14 (S)	90	%	29-112		5	04/18/19 03:39	04/18/19 15:07	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	8.2	%	0.10	0.10	1		04/17/19 14:57		J(D6)

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 9 (0-6)** Lab ID: **35461863003** Collected: 04/15/19 11:23 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	135	mg/kg	14.6	9.3	1	04/18/19 06:06	04/18/19 12:14		P1
Surrogates									
o-Terphenyl (S)	86	%	66-136		1	04/18/19 06:06	04/18/19 12:14	84-15-1	
N-Pentatriacontane (S)	88	%	42-159		1	04/18/19 06:06	04/18/19 12:14	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	20.0	mg/kg	0.75	0.38	1	04/22/19 09:07	04/22/19 22:40	7440-38-2	
Cadmium	0.29	mg/kg	0.075	0.038	1	04/22/19 09:07	04/22/19 22:40	7440-43-9	
Chromium	12.9	mg/kg	0.38	0.19	1	04/22/19 09:07	04/22/19 22:40	7440-47-3	
Lead	113	mg/kg	0.75	0.38	1	04/22/19 09:07	04/22/19 22:40	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.048 U	mg/kg	0.15	0.048	1	04/18/19 03:39	04/18/19 15:32	83-32-9	P1
Acenaphthylene	0.043 U	mg/kg	0.14	0.043	1	04/18/19 03:39	04/18/19 15:32	208-96-8	P1
Anthracene	0.087 I	mg/kg	0.15	0.049	1	04/18/19 03:39	04/18/19 15:32	120-12-7	P1
Benzo(a)anthracene	0.42	mg/kg	0.14	0.040	1	04/18/19 03:39	04/18/19 15:32	56-55-3	P1
Benzo(a)pyrene	0.44	mg/kg	0.14	0.034	1	04/18/19 03:39	04/18/19 15:32	50-32-8	P1
Benzo(b)fluoranthene	0.62	mg/kg	0.14	0.037	1	04/18/19 03:39	04/18/19 15:32	205-99-2	P1
Benzo(g,h,i)perylene	0.37	mg/kg	0.14	0.035	1	04/18/19 03:39	04/18/19 15:32	191-24-2	P1
Benzo(k)fluoranthene	0.24	mg/kg	0.14	0.037	1	04/18/19 03:39	04/18/19 15:32	207-08-9	P1
Chrysene	0.53	mg/kg	0.14	0.044	1	04/18/19 03:39	04/18/19 15:32	218-01-9	P1
Dibenz(a,h)anthracene	0.094 I	mg/kg	0.14	0.032	1	04/18/19 03:39	04/18/19 15:32	53-70-3	P1
Fluoranthene	0.79	mg/kg	0.14	0.046	1	04/18/19 03:39	04/18/19 15:32	206-44-0	P1
Fluorene	0.050 U	mg/kg	0.15	0.050	1	04/18/19 03:39	04/18/19 15:32	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.31	mg/kg	0.14	0.032	1	04/18/19 03:39	04/18/19 15:32	193-39-5	P1
1-Methylnaphthalene	0.055 U	mg/kg	0.16	0.055	1	04/18/19 03:39	04/18/19 15:32	90-12-0	P1
2-Methylnaphthalene	0.053 U	mg/kg	0.16	0.053	1	04/18/19 03:39	04/18/19 15:32	91-57-6	P1
Naphthalene	0.048 U	mg/kg	0.14	0.048	1	04/18/19 03:39	04/18/19 15:32	91-20-3	P1
Phenanthrene	0.40	mg/kg	0.14	0.046	1	04/18/19 03:39	04/18/19 15:32	85-01-8	P1
Pyrene	0.79	mg/kg	0.14	0.044	1	04/18/19 03:39	04/18/19 15:32	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	64	%	24-98		1	04/18/19 03:39	04/18/19 15:32	4165-60-0	
2-Fluorobiphenyl (S)	70	%	29-101		1	04/18/19 03:39	04/18/19 15:32	321-60-8	
p-Terphenyl-d14 (S)	92	%	29-112		1	04/18/19 03:39	04/18/19 15:32	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	31.6	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 9 (6-2) Lab ID: 35461863004 Collected: 04/15/19 11:23 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	8.1 I	mg/kg	12.7	8.1	1	04/18/19 06:06	04/18/19 12:14		P1
Surrogates									
o-Terphenyl (S)	100	%	66-136		1	04/18/19 06:06	04/18/19 12:14	84-15-1	
N-Pentatriacontane (S)	117	%	42-159		1	04/18/19 06:06	04/18/19 12:14	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	15.8	mg/kg	0.73	0.36	1	04/22/19 09:07	04/22/19 22:52	7440-38-2	
Cadmium	0.20	mg/kg	0.073	0.036	1	04/22/19 09:07	04/22/19 22:52	7440-43-9	
Chromium	11.4	mg/kg	0.36	0.18	1	04/22/19 09:07	04/22/19 22:52	7440-47-3	
Lead	253	mg/kg	7.3	3.6	10	04/22/19 09:07	04/23/19 15:04	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.043 U	mg/kg	0.13	0.043	1	04/18/19 03:39	04/18/19 15:57	83-32-9	P1
Acenaphthylene	0.039 U	mg/kg	0.13	0.039	1	04/18/19 03:39	04/18/19 15:57	208-96-8	P1
Anthracene	0.044 U	mg/kg	0.13	0.044	1	04/18/19 03:39	04/18/19 15:57	120-12-7	P1
Benzo(a)anthracene	0.070 I	mg/kg	0.13	0.036	1	04/18/19 03:39	04/18/19 15:57	56-55-3	P1
Benzo(a)pyrene	0.066 I	mg/kg	0.13	0.031	1	04/18/19 03:39	04/18/19 15:57	50-32-8	P1
Benzo(b)fluoranthene	0.10 I	mg/kg	0.13	0.033	1	04/18/19 03:39	04/18/19 15:57	205-99-2	P1
Benzo(g,h,i)perylene	0.057 I	mg/kg	0.13	0.032	1	04/18/19 03:39	04/18/19 15:57	191-24-2	P1
Benzo(k)fluoranthene	0.042 I	mg/kg	0.13	0.034	1	04/18/19 03:39	04/18/19 15:57	207-08-9	P1
Chrysene	0.090 I	mg/kg	0.13	0.040	1	04/18/19 03:39	04/18/19 15:57	218-01-9	P1
Dibenz(a,h)anthracene	0.029 U	mg/kg	0.13	0.029	1	04/18/19 03:39	04/18/19 15:57	53-70-3	P1
Fluoranthene	0.099 I	mg/kg	0.13	0.041	1	04/18/19 03:39	04/18/19 15:57	206-44-0	P1
Fluorene	0.045 U	mg/kg	0.14	0.045	1	04/18/19 03:39	04/18/19 15:57	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.049 I	mg/kg	0.13	0.029	1	04/18/19 03:39	04/18/19 15:57	193-39-5	P1
1-Methylnaphthalene	0.049 U	mg/kg	0.15	0.049	1	04/18/19 03:39	04/18/19 15:57	90-12-0	P1
2-Methylnaphthalene	0.048 U	mg/kg	0.14	0.048	1	04/18/19 03:39	04/18/19 15:57	91-57-6	P1
Naphthalene	0.043 U	mg/kg	0.13	0.043	1	04/18/19 03:39	04/18/19 15:57	91-20-3	P1
Phenanthrene	0.041 U	mg/kg	0.13	0.041	1	04/18/19 03:39	04/18/19 15:57	85-01-8	P1
Pyrene	0.11 I	mg/kg	0.13	0.040	1	04/18/19 03:39	04/18/19 15:57	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	58	%	24-98		1	04/18/19 03:39	04/18/19 15:57	4165-60-0	
2-Fluorobiphenyl (S)	66	%	29-101		1	04/18/19 03:39	04/18/19 15:57	321-60-8	
p-Terphenyl-d14 (S)	89	%	29-112		1	04/18/19 03:39	04/18/19 15:57	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	25.7	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 10 (0-6)** Lab ID: **35461863005** Collected: 04/15/19 10:35 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	3.6 I	mg/kg	4.7	3.0	1	04/18/19 06:06	04/18/19 12:29		
Surrogates									
o-Terphenyl (S)	100	%	66-136		1	04/18/19 06:06	04/18/19 12:29	84-15-1	
N-Pentatriacontane (S)	104	%	42-159		1	04/18/19 06:06	04/18/19 12:29	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	17.6	mg/kg	0.67	0.34	1	04/22/19 09:07	04/22/19 22:56	7440-38-2	
Cadmium	0.23	mg/kg	0.067	0.034	1	04/22/19 09:07	04/22/19 22:56	7440-43-9	
Chromium	9.8	mg/kg	0.34	0.17	1	04/22/19 09:07	04/22/19 22:56	7440-47-3	
Lead	42.3	mg/kg	0.67	0.34	1	04/22/19 09:07	04/22/19 22:56	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.014 U	mg/kg	0.043	0.014	1	04/18/19 03:39	04/18/19 16:22	83-32-9	
Acenaphthylene	0.040 I	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 16:22	208-96-8	
Anthracene	0.063	mg/kg	0.043	0.014	1	04/18/19 03:39	04/18/19 16:22	120-12-7	
Benzo(a)anthracene	0.28	mg/kg	0.040	0.011	1	04/18/19 03:39	04/18/19 16:22	56-55-3	
Benzo(a)pyrene	0.29	mg/kg	0.040	0.010	1	04/18/19 03:39	04/18/19 16:22	50-32-8	
Benzo(b)fluoranthene	0.43	mg/kg	0.040	0.011	1	04/18/19 03:39	04/18/19 16:22	205-99-2	
Benzo(g,h,i)perylene	0.25	mg/kg	0.040	0.010	1	04/18/19 03:39	04/18/19 16:22	191-24-2	
Benzo(k)fluoranthene	0.16	mg/kg	0.040	0.011	1	04/18/19 03:39	04/18/19 16:22	207-08-9	
Chrysene	0.34	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 16:22	218-01-9	
Dibenz(a,h)anthracene	0.062	mg/kg	0.040	0.0092	1	04/18/19 03:39	04/18/19 16:22	53-70-3	
Fluoranthene	0.51	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 16:22	206-44-0	
Fluorene	0.014 U	mg/kg	0.044	0.014	1	04/18/19 03:39	04/18/19 16:22	86-73-7	
Indeno(1,2,3-cd)pyrene	0.21	mg/kg	0.040	0.0092	1	04/18/19 03:39	04/18/19 16:22	193-39-5	
1-Methylnaphthalene	0.020 I	mg/kg	0.047	0.016	1	04/18/19 03:39	04/18/19 16:22	90-12-0	
2-Methylnaphthalene	0.024 I	mg/kg	0.046	0.015	1	04/18/19 03:39	04/18/19 16:22	91-57-6	
Naphthalene	0.020 I	mg/kg	0.042	0.014	1	04/18/19 03:39	04/18/19 16:22	91-20-3	
Phenanthrene	0.19	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 16:22	85-01-8	
Pyrene	0.52	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 16:22	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	52	%	24-98		1	04/18/19 03:39	04/18/19 16:22	4165-60-0	
2-Fluorobiphenyl (S)	59	%	29-101		1	04/18/19 03:39	04/18/19 16:22	321-60-8	
p-Terphenyl-d14 (S)	69	%	29-112		1	04/18/19 03:39	04/18/19 16:22	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.8	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 10 (6-2)** Lab ID: **35461863006** Collected: 04/15/19 10:35 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	8.2 I	mg/kg	12.9	8.2	1	04/18/19 06:06	04/18/19 12:29		P1
Surrogates									
o-Terphenyl (S)	104	%	66-136		1	04/18/19 06:06	04/18/19 12:29	84-15-1	
N-Pentatriacontane (S)	120	%	42-159		1	04/18/19 06:06	04/18/19 12:29	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	46.4	mg/kg	0.56	0.28	1	04/22/19 09:07	04/22/19 23:00	7440-38-2	
Cadmium	0.65	mg/kg	0.056	0.028	1	04/22/19 09:07	04/22/19 23:00	7440-43-9	
Chromium	13.5	mg/kg	0.28	0.14	1	04/22/19 09:07	04/22/19 23:00	7440-47-3	
Lead	232	mg/kg	5.6	2.8	10	04/22/19 09:07	04/23/19 15:08	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.044 U	mg/kg	0.14	0.044	1	04/18/19 03:39	04/18/19 16:47	83-32-9	P1
Acenaphthylene	0.040 U	mg/kg	0.13	0.040	1	04/18/19 03:39	04/18/19 16:47	208-96-8	P1
Anthracene	0.045 U	mg/kg	0.14	0.045	1	04/18/19 03:39	04/18/19 16:47	120-12-7	P1
Benzo(a)anthracene	0.11 I	mg/kg	0.13	0.036	1	04/18/19 03:39	04/18/19 16:47	56-55-3	P1
Benzo(a)pyrene	0.12 I	mg/kg	0.13	0.032	1	04/18/19 03:39	04/18/19 16:47	50-32-8	P1
Benzo(b)fluoranthene	0.17	mg/kg	0.13	0.034	1	04/18/19 03:39	04/18/19 16:47	205-99-2	P1
Benzo(g,h,i)perylene	0.098 I	mg/kg	0.13	0.032	1	04/18/19 03:39	04/18/19 16:47	191-24-2	P1
Benzo(k)fluoranthene	0.091 I	mg/kg	0.13	0.034	1	04/18/19 03:39	04/18/19 16:47	207-08-9	P1
Chrysene	0.15	mg/kg	0.13	0.040	1	04/18/19 03:39	04/18/19 16:47	218-01-9	P1
Dibenz(a,h)anthracene	0.029 U	mg/kg	0.13	0.029	1	04/18/19 03:39	04/18/19 16:47	53-70-3	P1
Fluoranthene	0.13	mg/kg	0.13	0.042	1	04/18/19 03:39	04/18/19 16:47	206-44-0	P1
Fluorene	0.045 U	mg/kg	0.14	0.045	1	04/18/19 03:39	04/18/19 16:47	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.087 I	mg/kg	0.13	0.029	1	04/18/19 03:39	04/18/19 16:47	193-39-5	P1
1-Methylnaphthalene	0.050 U	mg/kg	0.15	0.050	1	04/18/19 03:39	04/18/19 16:47	90-12-0	P1
2-Methylnaphthalene	0.048 U	mg/kg	0.15	0.048	1	04/18/19 03:39	04/18/19 16:47	91-57-6	P1
Naphthalene	0.044 U	mg/kg	0.13	0.044	1	04/18/19 03:39	04/18/19 16:47	91-20-3	P1
Phenanthrene	0.042 U	mg/kg	0.13	0.042	1	04/18/19 03:39	04/18/19 16:47	85-01-8	P1
Pyrene	0.16	mg/kg	0.13	0.040	1	04/18/19 03:39	04/18/19 16:47	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	65	%	24-98		1	04/18/19 03:39	04/18/19 16:47	4165-60-0	
2-Fluorobiphenyl (S)	71	%	29-101		1	04/18/19 03:39	04/18/19 16:47	321-60-8	
p-Terphenyl-d14 (S)	90	%	29-112		1	04/18/19 03:39	04/18/19 16:47	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	22.9	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 13 (0-6)** Lab ID: **35461863007** Collected: 04/15/19 14:09 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	137	mg/kg	4.7	3.0	1	04/18/19 06:06	04/19/19 08:04		
Surrogates									
o-Terphenyl (S)	101	%	66-136		1	04/18/19 06:06	04/19/19 08:04	84-15-1	
N-Pentatriacontane (S)	108	%	42-159		1	04/18/19 06:06	04/19/19 08:04	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	75.6	mg/kg	0.66	0.33	1	04/22/19 09:07	04/22/19 23:05	7440-38-2	
Cadmium	0.36	mg/kg	0.066	0.033	1	04/22/19 09:07	04/22/19 23:05	7440-43-9	
Chromium	14.9	mg/kg	0.33	0.17	1	04/22/19 09:07	04/22/19 23:05	7440-47-3	
Lead	93.2	mg/kg	0.66	0.33	1	04/22/19 09:07	04/22/19 23:05	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.019 I	mg/kg	0.043	0.014	1	04/18/19 03:39	04/18/19 17:12	83-32-9	
Acenaphthylene	0.046	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 17:12	208-96-8	
Anthracene	0.087	mg/kg	0.043	0.014	1	04/18/19 03:39	04/18/19 17:12	120-12-7	
Benzo(a)anthracene	0.40	mg/kg	0.040	0.012	1	04/18/19 03:39	04/18/19 17:12	56-55-3	
Benzo(a)pyrene	0.45	mg/kg	0.040	0.010	1	04/18/19 03:39	04/18/19 17:12	50-32-8	
Benzo(b)fluoranthene	0.62	mg/kg	0.040	0.011	1	04/18/19 03:39	04/18/19 17:12	205-99-2	
Benzo(g,h,i)perylene	0.34	mg/kg	0.040	0.010	1	04/18/19 03:39	04/18/19 17:12	191-24-2	
Benzo(k)fluoranthene	0.22	mg/kg	0.040	0.011	1	04/18/19 03:39	04/18/19 17:12	207-08-9	
Chrysene	0.48	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 17:12	218-01-9	
Dibenz(a,h)anthracene	0.080	mg/kg	0.040	0.0093	1	04/18/19 03:39	04/18/19 17:12	53-70-3	
Fluoranthene	0.68	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 17:12	206-44-0	
Fluorene	0.014 U	mg/kg	0.044	0.014	1	04/18/19 03:39	04/18/19 17:12	86-73-7	
Indeno(1,2,3-cd)pyrene	0.27	mg/kg	0.040	0.0092	1	04/18/19 03:39	04/18/19 17:12	193-39-5	
1-Methylnaphthalene	0.044 I	mg/kg	0.048	0.016	1	04/18/19 03:39	04/18/19 17:12	90-12-0	
2-Methylnaphthalene	0.049	mg/kg	0.046	0.015	1	04/18/19 03:39	04/18/19 17:12	91-57-6	
Naphthalene	0.031 I	mg/kg	0.042	0.014	1	04/18/19 03:39	04/18/19 17:12	91-20-3	
Phenanthrene	0.33	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 17:12	85-01-8	
Pyrene	0.82	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 17:12	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	57	%	24-98		1	04/18/19 03:39	04/18/19 17:12	4165-60-0	
2-Fluorobiphenyl (S)	66	%	29-101		1	04/18/19 03:39	04/18/19 17:12	321-60-8	
p-Terphenyl-d14 (S)	79	%	29-112		1	04/18/19 03:39	04/18/19 17:12	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.6	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 13 (6-2) Lab ID: 35461863008 Collected: 04/15/19 14:09 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	160	mg/kg	4.6	3.0	1	04/18/19 06:06	04/19/19 07:49		
Surrogates									
o-Terphenyl (S)	98	%	66-136		1	04/18/19 06:06	04/19/19 07:49	84-15-1	
N-Pentatriacontane (S)	112	%	42-159		1	04/18/19 06:06	04/19/19 07:49	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	81.3	mg/kg	0.62	0.31	1	04/22/19 09:07	04/22/19 23:09	7440-38-2	
Cadmium	0.22	mg/kg	0.062	0.031	1	04/22/19 09:07	04/22/19 23:09	7440-43-9	
Chromium	5.7	mg/kg	0.31	0.16	1	04/22/19 09:07	04/22/19 23:09	7440-47-3	
Lead	156	mg/kg	6.2	3.1	10	04/22/19 09:07	04/23/19 15:12	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.24	mg/kg	0.21	0.067	5	04/18/19 03:39	04/18/19 17:37	83-32-9	D3
Acenaphthylene	0.060 U	mg/kg	0.19	0.060	5	04/18/19 03:39	04/18/19 17:37	208-96-8	D3
Anthracene	0.49	mg/kg	0.21	0.068	5	04/18/19 03:39	04/18/19 17:37	120-12-7	D3
Benzo(a)anthracene	2.0	mg/kg	0.19	0.055	5	04/18/19 03:39	04/18/19 17:37	56-55-3	D3
Benzo(a)pyrene	1.8	mg/kg	0.19	0.048	5	04/18/19 03:39	04/18/19 17:37	50-32-8	D3
Benzo(b)fluoranthene	2.3	mg/kg	0.19	0.051	5	04/18/19 03:39	04/18/19 17:37	205-99-2	D3
Benzo(g,h,i)perylene	1.3	mg/kg	0.19	0.048	5	04/18/19 03:39	04/18/19 17:37	191-24-2	D3
Benzo(k)fluoranthene	0.89	mg/kg	0.19	0.052	5	04/18/19 03:39	04/18/19 17:37	207-08-9	D3
Chrysene	2.2	mg/kg	0.19	0.061	5	04/18/19 03:39	04/18/19 17:37	218-01-9	D3
Dibenz(a,h)anthracene	0.28	mg/kg	0.19	0.044	5	04/18/19 03:39	04/18/19 17:37	53-70-3	D3
Fluoranthene	4.5	mg/kg	0.19	0.063	5	04/18/19 03:39	04/18/19 17:37	206-44-0	D3
Fluorene	0.094 I	mg/kg	0.21	0.069	5	04/18/19 03:39	04/18/19 17:37	86-73-7	D3
Indeno(1,2,3-cd)pyrene	1.0	mg/kg	0.19	0.044	5	04/18/19 03:39	04/18/19 17:37	193-39-5	D3
1-Methylnaphthalene	0.076 U	mg/kg	0.23	0.076	5	04/18/19 03:39	04/18/19 17:37	90-12-0	D3
2-Methylnaphthalene	0.073 U	mg/kg	0.22	0.073	5	04/18/19 03:39	04/18/19 17:37	91-57-6	D3
Naphthalene	0.066 U	mg/kg	0.20	0.066	5	04/18/19 03:39	04/18/19 17:37	91-20-3	D3
Phenanthrene	3.3	mg/kg	0.19	0.063	5	04/18/19 03:39	04/18/19 17:37	85-01-8	D3
Pyrene	4.7	mg/kg	0.19	0.061	5	04/18/19 03:39	04/18/19 17:37	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	55	%	24-98		5	04/18/19 03:39	04/18/19 17:37	4165-60-0	
2-Fluorobiphenyl (S)	65	%	29-101		5	04/18/19 03:39	04/18/19 17:37	321-60-8	
p-Terphenyl-d14 (S)	79	%	29-112		5	04/18/19 03:39	04/18/19 17:37	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.5	%	0.10	0.10	1		04/17/19 14:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 14 (0-6) Lab ID: 35461863009 Collected: 04/15/19 12:51 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	93.1	mg/kg	4.6	2.9	1	04/18/19 06:06	04/19/19 07:49		
Surrogates									
o-Terphenyl (S)	103	%	66-136		1	04/18/19 06:06	04/19/19 07:49	84-15-1	
N-Pentatriacontane (S)	105	%	42-159		1	04/18/19 06:06	04/19/19 07:49	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	11.4	mg/kg	0.65	0.32	1	04/22/19 16:19	04/23/19 12:24	7440-38-2	
Cadmium	0.17	mg/kg	0.065	0.032	1	04/22/19 16:19	04/23/19 12:24	7440-43-9	
Chromium	9.9	mg/kg	0.32	0.16	1	04/22/19 16:19	04/23/19 12:24	7440-47-3	
Lead	36.1	mg/kg	0.65	0.32	1	04/22/19 16:19	04/23/19 12:24	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.041	0.013	1	04/18/19 03:39	04/18/19 18:02	83-32-9	
Acenaphthylene	0.017 I	mg/kg	0.039	0.012	1	04/18/19 03:39	04/18/19 18:02	208-96-8	
Anthracene	0.030 I	mg/kg	0.041	0.014	1	04/18/19 03:39	04/18/19 18:02	120-12-7	
Benzo(a)anthracene	0.14	mg/kg	0.039	0.011	1	04/18/19 03:39	04/18/19 18:02	56-55-3	
Benzo(a)pyrene	0.16	mg/kg	0.039	0.0096	1	04/18/19 03:39	04/18/19 18:02	50-32-8	
Benzo(b)fluoranthene	0.23	mg/kg	0.039	0.010	1	04/18/19 03:39	04/18/19 18:02	205-99-2	
Benzo(g,h,i)perylene	0.12	mg/kg	0.039	0.0097	1	04/18/19 03:39	04/18/19 18:02	191-24-2	
Benzo(k)fluoranthene	0.091	mg/kg	0.039	0.010	1	04/18/19 03:39	04/18/19 18:02	207-08-9	
Chrysene	0.18	mg/kg	0.039	0.012	1	04/18/19 03:39	04/18/19 18:02	218-01-9	
Dibenz(a,h)anthracene	0.028 I	mg/kg	0.039	0.0089	1	04/18/19 03:39	04/18/19 18:02	53-70-3	
Fluoranthene	0.22	mg/kg	0.039	0.013	1	04/18/19 03:39	04/18/19 18:02	206-44-0	
Fluorene	0.014 U	mg/kg	0.042	0.014	1	04/18/19 03:39	04/18/19 18:02	86-73-7	
Indeno(1,2,3-cd)pyrene	0.097	mg/kg	0.039	0.0088	1	04/18/19 03:39	04/18/19 18:02	193-39-5	
1-Methylnaphthalene	0.031 I	mg/kg	0.046	0.015	1	04/18/19 03:39	04/18/19 18:02	90-12-0	
2-Methylnaphthalene	0.036 I	mg/kg	0.045	0.015	1	04/18/19 03:39	04/18/19 18:02	91-57-6	
Naphthalene	0.033 I	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 18:02	91-20-3	
Phenanthrene	0.11	mg/kg	0.039	0.013	1	04/18/19 03:39	04/18/19 18:02	85-01-8	
Pyrene	0.26	mg/kg	0.039	0.012	1	04/18/19 03:39	04/18/19 18:02	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	50	%	24-98		1	04/18/19 03:39	04/18/19 18:02	4165-60-0	
2-Fluorobiphenyl (S)	60	%	29-101		1	04/18/19 03:39	04/18/19 18:02	321-60-8	
p-Terphenyl-d14 (S)	72	%	29-112		1	04/18/19 03:39	04/18/19 18:02	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.6	%	0.10	0.10	1		04/22/19 10:21		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 14 (6-2)** Lab ID: **35461863010** Collected: 04/15/19 12:51 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	8.7	mg/kg	4.3	2.7	1	04/18/19 06:06	04/18/19 12:45		
Surrogates									
o-Terphenyl (S)	96	%	66-136		1	04/18/19 06:06	04/18/19 12:45	84-15-1	
N-Pentatriacontane (S)	101	%	42-159		1	04/18/19 06:06	04/18/19 12:45	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.4	mg/kg	0.66	0.33	1	04/22/19 16:19	04/23/19 12:27	7440-38-2	
Cadmium	0.16	mg/kg	0.066	0.033	1	04/22/19 16:19	04/23/19 12:27	7440-43-9	
Chromium	5.3	mg/kg	0.33	0.16	1	04/22/19 16:19	04/23/19 12:27	7440-47-3	
Lead	54.7	mg/kg	0.66	0.33	1	04/22/19 16:19	04/23/19 12:27	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.039	0.013	1	04/18/19 03:39	04/18/19 18:27	83-32-9	
Acenaphthylene	0.016 I	mg/kg	0.037	0.011	1	04/18/19 03:39	04/18/19 18:27	208-96-8	
Anthracene	0.013 U	mg/kg	0.039	0.013	1	04/18/19 03:39	04/18/19 18:27	120-12-7	
Benzo(a)anthracene	0.088	mg/kg	0.037	0.010	1	04/18/19 03:39	04/18/19 18:27	56-55-3	
Benzo(a)pyrene	0.14	mg/kg	0.037	0.0091	1	04/18/19 03:39	04/18/19 18:27	50-32-8	
Benzo(b)fluoranthene	0.18	mg/kg	0.037	0.0098	1	04/18/19 03:39	04/18/19 18:27	205-99-2	
Benzo(g,h,i)perylene	0.10	mg/kg	0.037	0.0092	1	04/18/19 03:39	04/18/19 18:27	191-24-2	
Benzo(k)fluoranthene	0.083	mg/kg	0.037	0.0098	1	04/18/19 03:39	04/18/19 18:27	207-08-9	
Chrysene	0.13	mg/kg	0.037	0.012	1	04/18/19 03:39	04/18/19 18:27	218-01-9	
Dibenz(a,h)anthracene	0.027 I	mg/kg	0.037	0.0084	1	04/18/19 03:39	04/18/19 18:27	53-70-3	
Fluoranthene	0.13	mg/kg	0.037	0.012	1	04/18/19 03:39	04/18/19 18:27	206-44-0	
Fluorene	0.013 U	mg/kg	0.040	0.013	1	04/18/19 03:39	04/18/19 18:27	86-73-7	
Indeno(1,2,3-cd)pyrene	0.088	mg/kg	0.037	0.0084	1	04/18/19 03:39	04/18/19 18:27	193-39-5	
1-Methylnaphthalene	0.049	mg/kg	0.043	0.014	1	04/18/19 03:39	04/18/19 18:27	90-12-0	
2-Methylnaphthalene	0.057	mg/kg	0.042	0.014	1	04/18/19 03:39	04/18/19 18:27	91-57-6	
Naphthalene	0.049	mg/kg	0.038	0.013	1	04/18/19 03:39	04/18/19 18:27	91-20-3	
Phenanthrene	0.076	mg/kg	0.037	0.012	1	04/18/19 03:39	04/18/19 18:27	85-01-8	
Pyrene	0.16	mg/kg	0.037	0.012	1	04/18/19 03:39	04/18/19 18:27	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	53	%	24-98		1	04/18/19 03:39	04/18/19 18:27	4165-60-0	
2-Fluorobiphenyl (S)	59	%	29-101		1	04/18/19 03:39	04/18/19 18:27	321-60-8	
p-Terphenyl-d14 (S)	70	%	29-112		1	04/18/19 03:39	04/18/19 18:27	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.9	%	0.10	0.10	1		04/22/19 10:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 15 (0-6) **Lab ID: 35461863011** Collected: 04/15/19 12:10 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics Surrogates	17.6 I	mg/kg	17.8	11.3	1	04/19/19 01:45	04/19/19 13:00		P1
o-Terphenyl (S)	104	%	66-136		1	04/19/19 01:45	04/19/19 13:00	84-15-1	
N-Pentatriacontane (S)	120	%	42-159		1	04/19/19 01:45	04/19/19 13:00	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	26.8	mg/kg	0.98	0.49	1	04/22/19 16:19	04/23/19 12:30	7440-38-2	
Cadmium	0.58	mg/kg	0.098	0.049	1	04/22/19 16:19	04/23/19 12:30	7440-43-9	
Chromium	13.3	mg/kg	0.49	0.24	1	04/22/19 16:19	04/23/19 12:30	7440-47-3	
Lead	179	mg/kg	0.98	0.49	1	04/22/19 16:19	04/23/19 12:30	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.059 U	mg/kg	0.18	0.059	1	04/18/19 03:39	04/18/19 18:52	83-32-9	P1
Acenaphthylene	0.053 U	mg/kg	0.17	0.053	1	04/18/19 03:39	04/18/19 18:52	208-96-8	P1
Anthracene	0.10 I	mg/kg	0.18	0.060	1	04/18/19 03:39	04/18/19 18:52	120-12-7	P1
Benzo(a)anthracene	0.37	mg/kg	0.17	0.049	1	04/18/19 03:39	04/18/19 18:52	56-55-3	P1
Benzo(a)pyrene	0.38	mg/kg	0.17	0.042	1	04/18/19 03:39	04/18/19 18:52	50-32-8	P1
Benzo(b)fluoranthene	0.53	mg/kg	0.17	0.045	1	04/18/19 03:39	04/18/19 18:52	205-99-2	P1
Benzo(g,h,i)perylene	0.25	mg/kg	0.17	0.043	1	04/18/19 03:39	04/18/19 18:52	191-24-2	P1
Benzo(k)fluoranthene	0.21	mg/kg	0.17	0.046	1	04/18/19 03:39	04/18/19 18:52	207-08-9	P1
Chrysene	0.42	mg/kg	0.17	0.054	1	04/18/19 03:39	04/18/19 18:52	218-01-9	P1
Dibenz(a,h)anthracene	0.072 I	mg/kg	0.17	0.039	1	04/18/19 03:39	04/18/19 18:52	53-70-3	P1
Fluoranthene	0.59	mg/kg	0.17	0.056	1	04/18/19 03:39	04/18/19 18:52	206-44-0	P1
Fluorene	0.061 U	mg/kg	0.19	0.061	1	04/18/19 03:39	04/18/19 18:52	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	0.17	0.039	1	04/18/19 03:39	04/18/19 18:52	193-39-5	P1
1-Methylnaphthalene	0.067 U	mg/kg	0.20	0.067	1	04/18/19 03:39	04/18/19 18:52	90-12-0	P1
2-Methylnaphthalene	0.065 U	mg/kg	0.20	0.065	1	04/18/19 03:39	04/18/19 18:52	91-57-6	P1
Naphthalene	0.10 I	mg/kg	0.18	0.059	1	04/18/19 03:39	04/18/19 18:52	91-20-3	P1
Phenanthrene	0.32	mg/kg	0.17	0.056	1	04/18/19 03:39	04/18/19 18:52	85-01-8	P1
Pyrene	0.64	mg/kg	0.17	0.054	1	04/18/19 03:39	04/18/19 18:52	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	71	%	24-98		1	04/18/19 03:39	04/18/19 18:52	4165-60-0	
2-Fluorobiphenyl (S)	82	%	29-101		1	04/18/19 03:39	04/18/19 18:52	321-60-8	
p-Terphenyl-d14 (S)	99	%	29-112		1	04/18/19 03:39	04/18/19 18:52	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	44.2	%	0.10	0.10	1		04/22/19 10:21		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: SBC - 15 (6-2) Lab ID: 35461863012 Collected: 04/15/19 12:10 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	4.6 I	mg/kg	5.3	3.4	1	04/19/19 01:45	04/19/19 13:16		
Surrogates									
o-Terphenyl (S)	90	%	66-136		1	04/19/19 01:45	04/19/19 13:16	84-15-1	
N-Pentatriacontane (S)	97	%	42-159		1	04/19/19 01:45	04/19/19 13:16	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	31.7	mg/kg	0.78	0.39	1	04/22/19 16:19	04/23/19 12:32	7440-38-2	
Cadmium	0.29	mg/kg	0.078	0.039	1	04/22/19 16:19	04/23/19 12:32	7440-43-9	
Chromium	6.7	mg/kg	0.39	0.19	1	04/22/19 16:19	04/23/19 12:32	7440-47-3	
Lead	101	mg/kg	0.78	0.39	1	04/22/19 16:19	04/23/19 12:32	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.045 I	mg/kg	0.13	0.043	1	04/18/19 03:39	04/18/19 19:17	83-32-9	P1
Acenaphthylene	0.039 U	mg/kg	0.12	0.039	1	04/18/19 03:39	04/18/19 19:17	208-96-8	P1
Anthracene	0.11 I	mg/kg	0.13	0.044	1	04/18/19 03:39	04/18/19 19:17	120-12-7	P1
Benzo(a)anthracene	0.43	mg/kg	0.12	0.035	1	04/18/19 03:39	04/18/19 19:17	56-55-3	P1
Benzo(a)pyrene	0.39	mg/kg	0.12	0.031	1	04/18/19 03:39	04/18/19 19:17	50-32-8	P1
Benzo(b)fluoranthene	0.52	mg/kg	0.12	0.033	1	04/18/19 03:39	04/18/19 19:17	205-99-2	P1
Benzo(g,h,i)perylene	0.26	mg/kg	0.12	0.031	1	04/18/19 03:39	04/18/19 19:17	191-24-2	P1
Benzo(k)fluoranthene	0.20	mg/kg	0.12	0.033	1	04/18/19 03:39	04/18/19 19:17	207-08-9	P1
Chrysene	0.47	mg/kg	0.12	0.039	1	04/18/19 03:39	04/18/19 19:17	218-01-9	P1
Dibenz(a,h)anthracene	0.067 I	mg/kg	0.12	0.028	1	04/18/19 03:39	04/18/19 19:17	53-70-3	P1
Fluoranthene	0.96	mg/kg	0.12	0.040	1	04/18/19 03:39	04/18/19 19:17	206-44-0	P1
Fluorene	0.044 U	mg/kg	0.13	0.044	1	04/18/19 03:39	04/18/19 19:17	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	0.12	0.028	1	04/18/19 03:39	04/18/19 19:17	193-39-5	P1
1-Methylnaphthalene	0.048 U	mg/kg	0.15	0.048	1	04/18/19 03:39	04/18/19 19:17	90-12-0	P1
2-Methylnaphthalene	0.047 U	mg/kg	0.14	0.047	1	04/18/19 03:39	04/18/19 19:17	91-57-6	P1
Naphthalene	0.042 U	mg/kg	0.13	0.042	1	04/18/19 03:39	04/18/19 19:17	91-20-3	P1
Phenanthrene	0.63	mg/kg	0.12	0.040	1	04/18/19 03:39	04/18/19 19:17	85-01-8	P1
Pyrene	0.99	mg/kg	0.12	0.039	1	04/18/19 03:39	04/18/19 19:17	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	74	%	24-98		1	04/18/19 03:39	04/18/19 19:17	4165-60-0	
2-Fluorobiphenyl (S)	86	%	29-101		1	04/18/19 03:39	04/18/19 19:17	321-60-8	
p-Terphenyl-d14 (S)	98	%	29-112		1	04/18/19 03:39	04/18/19 19:17	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	23.8	%	0.10	0.10	1		04/22/19 10:21		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 10 (0-6)** Lab ID: **35461863013** Collected: 04/15/19 15:07 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.19 U	mg/kg	1.6	0.19	1	04/18/19 06:06	04/19/19 17:56	58-90-2	
2,4,5-Trichlorophenol	0.032 U	mg/kg	0.80	0.032	1	04/18/19 06:06	04/19/19 17:56	95-95-4	
2,4,6-Trichlorophenol	0.043 U	mg/kg	0.80	0.043	1	04/18/19 06:06	04/19/19 17:56	88-06-2	
2,4-Dichlorophenol	0.035 U	mg/kg	0.80	0.035	1	04/18/19 06:06	04/19/19 17:56	120-83-2	
2,4-Dimethylphenol	0.036 U	mg/kg	0.80	0.036	1	04/18/19 06:06	04/19/19 17:56	105-67-9	
2,4-Dinitrophenol	0.48 U	mg/kg	3.2	0.48	1	04/18/19 06:06	04/19/19 17:56	51-28-5	
2,6-Dichlorophenol	0.027 U	mg/kg	0.80	0.027	1	04/18/19 06:06	04/19/19 17:56	87-65-0	N2
2-Chlorophenol	0.034 U	mg/kg	0.80	0.034	1	04/18/19 06:06	04/19/19 17:56	95-57-8	
2-Methylphenol(o-Cresol)	0.038 U	mg/kg	0.80	0.038	1	04/18/19 06:06	04/19/19 17:56	95-48-7	
2-Nitrophenol	0.25 U	mg/kg	0.80	0.25	1	04/18/19 06:06	04/19/19 17:56	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.036 U	mg/kg	0.80	0.036	1	04/18/19 06:06	04/19/19 17:56		
4,6-Dinitro-2-methylphenol	0.52 U	mg/kg	3.2	0.52	1	04/18/19 06:06	04/19/19 17:56	534-52-1	
4-Chloro-3-methylphenol	0.032 U	mg/kg	3.2	0.032	1	04/18/19 06:06	04/19/19 17:56	59-50-7	
4-Nitrophenol	0.34 U	mg/kg	1.0	0.34	1	04/18/19 06:06	04/19/19 17:56	100-02-7	
Pentachlorophenol	0.41 U	mg/kg	3.2	0.41	1	04/18/19 06:06	04/19/19 17:56	87-86-5	
Phenol	0.045 U	mg/kg	0.80	0.045	1	04/18/19 06:06	04/19/19 17:56	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	83	%	24-98		1	04/18/19 06:06	04/19/19 17:56	4165-60-0	
2-Fluorobiphenyl (S)	73	%	29-101		1	04/18/19 06:06	04/19/19 17:56	321-60-8	
p-Terphenyl-d14 (S)	88	%	29-112		1	04/18/19 06:06	04/19/19 17:56	1718-51-0	
Phenol-d5 (S)	70	%	10-104		1	04/18/19 06:06	04/19/19 17:56	4165-62-2	
2-Fluorophenol (S)	67	%	19-95		1	04/18/19 06:06	04/19/19 17:56	367-12-4	
2,4,6-Tribromophenol (S)	79	%	23-110		1	04/18/19 06:06	04/19/19 17:56	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	37.6	%	0.10	0.10	1		04/22/19 10:21		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 15 (0-6)** Lab ID: **35461863014** Collected: 04/15/19 15:07 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.044 U	mg/kg	0.37	0.044	1	04/18/19 06:06	04/19/19 18:22	58-90-2	
2,4,5-Trichlorophenol	0.0074 U	mg/kg	0.19	0.0074	1	04/18/19 06:06	04/19/19 18:22	95-95-4	
2,4,6-Trichlorophenol	0.010 U	mg/kg	0.19	0.010	1	04/18/19 06:06	04/19/19 18:22	88-06-2	
2,4-Dichlorophenol	0.0083 U	mg/kg	0.19	0.0083	1	04/18/19 06:06	04/19/19 18:22	120-83-2	
2,4-Dimethylphenol	0.0085 U	mg/kg	0.19	0.0085	1	04/18/19 06:06	04/19/19 18:22	105-67-9	
2,4-Dinitrophenol	0.11 U	mg/kg	0.74	0.11	1	04/18/19 06:06	04/19/19 18:22	51-28-5	
2,6-Dichlorophenol	0.0064 U	mg/kg	0.19	0.0064	1	04/18/19 06:06	04/19/19 18:22	87-65-0	N2
2-Chlorophenol	0.0080 U	mg/kg	0.19	0.0080	1	04/18/19 06:06	04/19/19 18:22	95-57-8	
2-Methylphenol(o-Cresol)	0.0090 U	mg/kg	0.19	0.0090	1	04/18/19 06:06	04/19/19 18:22	95-48-7	
2-Nitrophenol	0.059 U	mg/kg	0.19	0.059	1	04/18/19 06:06	04/19/19 18:22	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.0085 U	mg/kg	0.19	0.0085	1	04/18/19 06:06	04/19/19 18:22		
4,6-Dinitro-2-methylphenol	0.12 U	mg/kg	0.74	0.12	1	04/18/19 06:06	04/19/19 18:22	534-52-1	
4-Chloro-3-methylphenol	0.0074 U	mg/kg	0.74	0.0074	1	04/18/19 06:06	04/19/19 18:22	59-50-7	
4-Nitrophenol	0.080 U	mg/kg	0.24	0.080	1	04/18/19 06:06	04/19/19 18:22	100-02-7	
Pentachlorophenol	0.096 U	mg/kg	0.74	0.096	1	04/18/19 06:06	04/19/19 18:22	87-86-5	
Phenol	0.011 U	mg/kg	0.19	0.011	1	04/18/19 06:06	04/19/19 18:22	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%	24-98		1	04/18/19 06:06	04/19/19 18:22	4165-60-0	
2-Fluorobiphenyl (S)	54	%	29-101		1	04/18/19 06:06	04/19/19 18:22	321-60-8	
p-Terphenyl-d14 (S)	69	%	29-112		1	04/18/19 06:06	04/19/19 18:22	1718-51-0	
Phenol-d5 (S)	46	%	10-104		1	04/18/19 06:06	04/19/19 18:22	4165-62-2	
2-Fluorophenol (S)	39	%	19-95		1	04/18/19 06:06	04/19/19 18:22	367-12-4	
2,4,6-Tribromophenol (S)	60	%	23-110		1	04/18/19 06:06	04/19/19 18:22	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.9	%	0.10	0.10	1		04/22/19 10:22		

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35461863

Sample: **SBC - 4 (0-6)** Lab ID: **35461863015** Collected: 04/15/19 09:55 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	499	mg/kg	24.7	15.7	5	04/19/19 01:45	04/19/19 17:56		D4
Surrogates									
o-Terphenyl (S)	100	%	66-136		5	04/19/19 01:45	04/19/19 17:56	84-15-1	
N-Pentatriacontane (S)	117	%	42-159		5	04/19/19 01:45	04/19/19 17:56	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	16.5	mg/kg	0.68	0.34	1	04/23/19 02:57	04/23/19 11:38	7440-38-2	
Cadmium	0.12	mg/kg	0.068	0.034	1	04/23/19 02:57	04/23/19 11:38	7440-43-9	
Chromium	6.6	mg/kg	0.34	0.17	1	04/23/19 02:57	04/23/19 11:38	7440-47-3	
Lead	34.9	mg/kg	0.68	0.34	1	04/23/19 02:57	04/23/19 11:38	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.073 U	mg/kg	0.23	0.073	5	04/19/19 00:45	04/19/19 15:19	83-32-9	
Acenaphthylene	0.066 U	mg/kg	0.21	0.066	5	04/19/19 00:45	04/19/19 15:19	208-96-8	
Anthracene	0.15 I	mg/kg	0.23	0.075	5	04/19/19 00:45	04/19/19 15:19	120-12-7	
Benzo(a)anthracene	0.80	mg/kg	0.21	0.061	5	04/19/19 00:45	04/19/19 15:19	56-55-3	
Benzo(a)pyrene	0.75	mg/kg	0.21	0.053	5	04/19/19 00:45	04/19/19 15:19	50-32-8	
Benzo(b)fluoranthene	1.4	mg/kg	0.21	0.057	5	04/19/19 00:45	04/19/19 15:19	205-99-2	
Benzo(g,h,i)perylene	0.42	mg/kg	0.21	0.053	5	04/19/19 00:45	04/19/19 15:19	191-24-2	
Benzo(k)fluoranthene	0.49	mg/kg	0.21	0.057	5	04/19/19 00:45	04/19/19 15:19	207-08-9	
Chrysene	1.2	mg/kg	0.21	0.067	5	04/19/19 00:45	04/19/19 15:19	218-01-9	
Dibenz(a,h)anthracene	0.081 I	mg/kg	0.21	0.049	5	04/19/19 00:45	04/19/19 15:19	53-70-3	
Fluoranthene	2.3	mg/kg	0.21	0.070	5	04/19/19 00:45	04/19/19 15:19	206-44-0	
Fluorene	0.076 U	mg/kg	0.23	0.076	5	04/19/19 00:45	04/19/19 15:19	86-73-7	
Indeno(1,2,3-cd)pyrene	0.37	mg/kg	0.21	0.048	5	04/19/19 00:45	04/19/19 15:19	193-39-5	
1-Methylnaphthalene	0.083 U	mg/kg	0.25	0.083	5	04/19/19 00:45	04/19/19 15:19	90-12-0	
2-Methylnaphthalene	0.081 U	mg/kg	0.24	0.081	5	04/19/19 00:45	04/19/19 15:19	91-57-6	
Naphthalene	0.073 U	mg/kg	0.22	0.073	5	04/19/19 00:45	04/19/19 15:19	91-20-3	
Phenanthrene	1.3	mg/kg	0.21	0.070	5	04/19/19 00:45	04/19/19 15:19	85-01-8	
Pyrene	2.2	mg/kg	0.21	0.067	5	04/19/19 00:45	04/19/19 15:19	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	59	%	24-98		5	04/19/19 00:45	04/19/19 15:19	4165-60-0	
2-Fluorobiphenyl (S)	60	%	29-101		5	04/19/19 00:45	04/19/19 15:19	321-60-8	
p-Terphenyl-d14 (S)	66	%	29-112		5	04/19/19 00:45	04/19/19 15:19	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	19.1	%	0.10	0.10	1		04/22/19 10:22		J(D6)

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35461863

Sample: **SBC - 4 (6-2)** Lab ID: **35461863017** Collected: 04/16/19 09:55 Received: 04/16/19 18:14 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	93.9	mg/kg	11.9	7.6	1	04/19/19 01:45	04/19/19 13:31		P1
Surrogates									
o-Terphenyl (S)	110	%	66-136		1	04/19/19 01:45	04/19/19 13:31	84-15-1	
N-Pentatriacontane (S)	111	%	42-159		1	04/19/19 01:45	04/19/19 13:31	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	82.3	mg/kg	0.58	0.29	1	04/22/19 09:07	04/22/19 23:13	7440-38-2	
Cadmium	0.34	mg/kg	0.058	0.029	1	04/22/19 09:07	04/22/19 23:13	7440-43-9	
Chromium	9.3	mg/kg	0.29	0.15	1	04/22/19 09:07	04/22/19 23:13	7440-47-3	
Lead	173	mg/kg	5.8	2.9	10	04/22/19 09:07	04/23/19 15:16	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.042 U	mg/kg	0.13	0.042	1	04/19/19 00:45	04/19/19 15:44	83-32-9	P1
Acenaphthylene	0.038 U	mg/kg	0.12	0.038	1	04/19/19 00:45	04/19/19 15:44	208-96-8	P1
Anthracene	0.043 U	mg/kg	0.13	0.043	1	04/19/19 00:45	04/19/19 15:44	120-12-7	P1
Benzo(a)anthracene	0.14	mg/kg	0.12	0.035	1	04/19/19 00:45	04/19/19 15:44	56-55-3	P1
Benzo(a)pyrene	0.13	mg/kg	0.12	0.030	1	04/19/19 00:45	04/19/19 15:44	50-32-8	P1
Benzo(b)fluoranthene	0.22	mg/kg	0.12	0.032	1	04/19/19 00:45	04/19/19 15:44	205-99-2	P1
Benzo(g,h,i)perylene	0.067 I	mg/kg	0.12	0.030	1	04/19/19 00:45	04/19/19 15:44	191-24-2	P1
Benzo(k)fluoranthene	0.077 I	mg/kg	0.12	0.032	1	04/19/19 00:45	04/19/19 15:44	207-08-9	P1
Chrysene	0.18	mg/kg	0.12	0.038	1	04/19/19 00:45	04/19/19 15:44	218-01-9	P1
Dibenz(a,h)anthracene	0.028 U	mg/kg	0.12	0.028	1	04/19/19 00:45	04/19/19 15:44	53-70-3	P1
Fluoranthene	0.30	mg/kg	0.12	0.040	1	04/19/19 00:45	04/19/19 15:44	206-44-0	P1
Fluorene	0.043 U	mg/kg	0.13	0.043	1	04/19/19 00:45	04/19/19 15:44	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.061 I	mg/kg	0.12	0.028	1	04/19/19 00:45	04/19/19 15:44	193-39-5	P1
1-Methylnaphthalene	0.047 U	mg/kg	0.14	0.047	1	04/19/19 00:45	04/19/19 15:44	90-12-0	P1
2-Methylnaphthalene	0.046 U	mg/kg	0.14	0.046	1	04/19/19 00:45	04/19/19 15:44	91-57-6	P1
Naphthalene	0.042 U	mg/kg	0.12	0.042	1	04/19/19 00:45	04/19/19 15:44	91-20-3	P1
Phenanthrene	0.15	mg/kg	0.12	0.040	1	04/19/19 00:45	04/19/19 15:44	85-01-8	P1
Pyrene	0.30	mg/kg	0.12	0.038	1	04/19/19 00:45	04/19/19 15:44	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	73	%	24-98		1	04/19/19 00:45	04/19/19 15:44	4165-60-0	
2-Fluorobiphenyl (S)	76	%	29-101		1	04/19/19 00:45	04/19/19 15:44	321-60-8	
p-Terphenyl-d14 (S)	91	%	29-112		1	04/19/19 00:45	04/19/19 15:44	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	21.1	%	0.10	0.10	1		04/17/19 14:57		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532720 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863017

METHOD BLANK: 2885970 Matrix: Solid
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.30 U	0.60	0.30	04/22/19 22:12	
Cadmium	mg/kg	0.030 U	0.060	0.030	04/22/19 22:12	
Chromium	mg/kg	0.15 U	0.30	0.15	04/22/19 22:12	
Lead	mg/kg	0.30 U	0.60	0.30	04/22/19 22:12	

LABORATORY CONTROL SAMPLE: 2885971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	12.1	10.9	91	80-120	
Cadmium	mg/kg	1.2	1.2	96	80-120	
Chromium	mg/kg	12.1	12.1	101	80-120	
Lead	mg/kg	12.1	11.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2885972 2885973

Parameter	Units	35461863001		2885972		2885973		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Arsenic	mg/kg	99.2	16.6	18.9	153	130	323	166	75-125	16	20	J(M1), M6	
Cadmium	mg/kg	0.32	1.7	1.9	1.8	1.9	91	86	75-125	7	20		
Chromium	mg/kg	10.1	16.6	18.9	25.1	28.1	90	95	75-125	11	20		
Lead	mg/kg	89.3	16.6	18.9	129	116	240	140	75-125	11	20	J(M1)	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532815 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35461863009, 35461863010, 35461863011, 35461863012

METHOD BLANK: 2886449 Matrix: Solid
Associated Lab Samples: 35461863009, 35461863010, 35461863011, 35461863012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.22 U	0.44	0.22	04/23/19 11:15	
Cadmium	mg/kg	0.022 U	0.044	0.022	04/23/19 11:15	
Chromium	mg/kg	0.11 U	0.22	0.11	04/23/19 11:15	
Lead	mg/kg	0.22 U	0.44	0.22	04/23/19 11:15	

LABORATORY CONTROL SAMPLE: 2886450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	11.8	10.8	92	80-120	
Cadmium	mg/kg	1.2	1.1	97	80-120	
Chromium	mg/kg	11.8	11.8	100	80-120	
Lead	mg/kg	11.8	11.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2886451 2886452

Parameter	Units	35461246001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/kg	0.28 U	15.5	16.1	12.4	13.2	80	82	75-125	6	20	
Cadmium	mg/kg	0.030 I	1.6	1.6	1.4	1.5	89	91	75-125	6	20	
Chromium	mg/kg	3.8	15.5	16.1	19.2	20.1	99	101	75-125	5	20	
Lead	mg/kg	9.3	15.5	16.1	23.0	24.2	88	92	75-125	5	20	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532923 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35461863015

METHOD BLANK: 2887194 Matrix: Solid
Associated Lab Samples: 35461863015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.30 U	0.61	0.30	04/23/19 10:54	
Cadmium	mg/kg	0.030 U	0.061	0.030	04/23/19 10:54	
Chromium	mg/kg	0.15 U	0.30	0.15	04/23/19 10:54	
Lead	mg/kg	0.30 U	0.61	0.30	04/23/19 10:54	

LABORATORY CONTROL SAMPLE: 2887195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	15	13.8	92	80-120	
Cadmium	mg/kg	1.5	1.4	96	80-120	
Chromium	mg/kg	15	15.6	104	80-120	
Lead	mg/kg	15	14.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2887196 2887197

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35459829008 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/kg	1.9	15.7	14.5	18.3	15.5	104	95	75-125	16	20
Cadmium	mg/kg	0.094	1.5	1.4	1.4	1.3	83	82	75-125	9	20
Chromium	mg/kg	8.3	15.7	14.5	24.5	21.3	103	90	75-125	14	20
Lead	mg/kg	4.2	15.7	14.5	17.6	15.8	85	80	75-125	11	20

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 531889 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid Full List MSSV Microwave
Associated Lab Samples: 35461863013, 35461863014

METHOD BLANK: 2881126 Matrix: Solid
Associated Lab Samples: 35461863013, 35461863014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	0.040 U	0.34	0.040	04/18/19 09:02	
2,4,5-Trichlorophenol	mg/kg	0.0066 U	0.17	0.0066	04/18/19 09:02	
2,4,6-Trichlorophenol	mg/kg	0.0091 U	0.17	0.0091	04/18/19 09:02	
2,4-Dichlorophenol	mg/kg	0.0075 U	0.17	0.0075	04/18/19 09:02	
2,4-Dimethylphenol	mg/kg	0.0076 U	0.17	0.0076	04/18/19 09:02	
2,4-Dinitrophenol	mg/kg	0.10 U	0.67	0.10	04/18/19 09:02	
2,6-Dichlorophenol	mg/kg	0.0058 U	0.17	0.0058	04/18/19 09:02	N2
2-Chlorophenol	mg/kg	0.0072 U	0.17	0.0072	04/18/19 09:02	
2-Methylphenol(o-Cresol)	mg/kg	0.0081 U	0.17	0.0081	04/18/19 09:02	
2-Nitrophenol	mg/kg	0.054 U	0.17	0.054	04/18/19 09:02	
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0077 U	0.17	0.0077	04/18/19 09:02	
4,6-Dinitro-2-methylphenol	mg/kg	0.11 U	0.67	0.11	04/18/19 09:02	
4-Chloro-3-methylphenol	mg/kg	0.0067 U	0.67	0.0067	04/18/19 09:02	
4-Nitrophenol	mg/kg	0.072 U	0.22	0.072	04/18/19 09:02	
Pentachlorophenol	mg/kg	0.086 U	0.67	0.086	04/18/19 09:02	
Phenol	mg/kg	0.0095 U	0.17	0.0095	04/18/19 09:02	
2,4,6-Tribromophenol (S)	%	62	23-110		04/18/19 09:02	
2-Fluorobiphenyl (S)	%	72	29-101		04/18/19 09:02	
2-Fluorophenol (S)	%	66	19-95		04/18/19 09:02	
Nitrobenzene-d5 (S)	%	77	24-98		04/18/19 09:02	
p-Terphenyl-d14 (S)	%	86	29-112		04/18/19 09:02	
Phenol-d5 (S)	%	69	10-104		04/18/19 09:02	

LABORATORY CONTROL SAMPLE: 2881127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	1.7	1.4	82	59-117	
2,4,5-Trichlorophenol	mg/kg	1.7	1.3	80	51-99	
2,4,6-Trichlorophenol	mg/kg	1.7	1.3	78	51-98	
2,4-Dichlorophenol	mg/kg	1.7	1.3	78	50-96	
2,4-Dimethylphenol	mg/kg	1.7	1.3	77	49-96	
2,4-Dinitrophenol	mg/kg	1.7	1.3	81	10-126	
2,6-Dichlorophenol	mg/kg	1.7	1.3	78		N2
2-Chlorophenol	mg/kg	1.7	1.2	73	48-92	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.2	75	49-93	
2-Nitrophenol	mg/kg	1.7	1.5	87	51-100	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.3	77	49-94	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.4	84	32-123	
4-Chloro-3-methylphenol	mg/kg	1.7	1.3	80	51-99	
4-Nitrophenol	mg/kg	1.7	1.5	88	50-115	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

LABORATORY CONTROL SAMPLE: 2881127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	mg/kg	1.7	1.3	78	39-115	
Phenol	mg/kg	1.7	1.2	74	46-94	
2,4,6-Tribromophenol (S)	%			79	23-110	
2-Fluorobiphenyl (S)	%			77	29-101	
2-Fluorophenol (S)	%			68	19-95	
Nitrobenzene-d5 (S)	%			86	24-98	
p-Terphenyl-d14 (S)	%			89	29-112	
Phenol-d5 (S)	%			72	10-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2881128 2881129

Parameter	Units	35460812001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	U	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
2,3,4,6-Tetrachlorophenol	mg/kg	0.040	U	1.7	1.7	1.2	1.3	73	80	59-117	9	40		
2,4,5-Trichlorophenol	mg/kg	0.0067	U	1.7	1.7	1.2	1.3	70	77	51-99	10	40		
2,4,6-Trichlorophenol	mg/kg	0.0091	U	1.7	1.7	1.1	1.3	66	75	51-98	13	40		
2,4-Dichlorophenol	mg/kg	0.0075	U	1.7	1.7	1.1	1.2	64	73	50-96	14	40		
2,4-Dimethylphenol	mg/kg	0.0076	U	1.7	1.7	1.1	1.2	64	73	49-96	14	40		
2,4-Dinitrophenol	mg/kg	0.10	U	1.7	1.7	1.2	1.3	73	77	10-126	6	40		
2,6-Dichlorophenol	mg/kg	0.0058	U	1.7	1.7	1.1	1.2	63	72		14	N2		
2-Chlorophenol	mg/kg	0.0072	U	1.7	1.7	1.0	1.2	59	69	48-92	15	40		
2-Methylphenol(o-Cresol)	mg/kg	0.0081	U	1.7	1.7	1.0	1.2	61	70	49-93	14	40		
2-Nitrophenol	mg/kg	0.054	U	1.7	1.7	1.2	1.4	72	83	51-100	15	40		
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0077	U	1.7	1.7	1.0	1.2	62	72	49-94	14	40		
4,6-Dinitro-2-methylphenol	mg/kg	0.11	U	1.7	1.7	1.3	1.4	78	81	32-123	4	40		
4-Chloro-3-methylphenol	mg/kg	0.0067	U	1.7	1.7	1.1	1.3	68	74	51-99	10	40		
4-Nitrophenol	mg/kg	0.072	U	1.7	1.7	1.3	1.4	79	86	50-115	9	40		
Pentachlorophenol	mg/kg	0.086	U	1.7	1.7	1.2	1.3	73	74	39-115	3	40		
Phenol	mg/kg	0.0095	U	1.7	1.7	1.0	1.2	60	69	46-94	15	40		
2,4,6-Tribromophenol (S)	%							70	75	23-110				
2-Fluorobiphenyl (S)	%							62	71	29-101				
2-Fluorophenol (S)	%							54	64	19-95				
Nitrobenzene-d5 (S)	%							68	79	24-98				
p-Terphenyl-d14 (S)	%							79	81	29-112				
Phenol-d5 (S)	%							57	66	10-104				

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 531901 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863009, 35461863010, 35461863011, 35461863012

METHOD BLANK: 2881193 Matrix: Solid
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863009, 35461863010, 35461863011, 35461863012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	04/18/19 10:58	
2-Methylnaphthalene	mg/kg	0.013 U	0.038	0.013	04/18/19 10:58	
Acenaphthene	mg/kg	0.012 U	0.035	0.012	04/18/19 10:58	
Acenaphthylene	mg/kg	0.010 U	0.033	0.010	04/18/19 10:58	
Anthracene	mg/kg	0.012 U	0.035	0.012	04/18/19 10:58	
Benzo(a)anthracene	mg/kg	0.0095 U	0.033	0.0095	04/18/19 10:58	
Benzo(a)pyrene	mg/kg	0.0083 U	0.033	0.0083	04/18/19 10:58	
Benzo(b)fluoranthene	mg/kg	0.0089 U	0.033	0.0089	04/18/19 10:58	
Benzo(g,h,i)perylene	mg/kg	0.0084 U	0.033	0.0084	04/18/19 10:58	
Benzo(k)fluoranthene	mg/kg	0.0089 U	0.033	0.0089	04/18/19 10:58	
Chrysene	mg/kg	0.011 U	0.033	0.011	04/18/19 10:58	
Dibenz(a,h)anthracene	mg/kg	0.0077 U	0.033	0.0077	04/18/19 10:58	
Fluoranthene	mg/kg	0.011 U	0.033	0.011	04/18/19 10:58	
Fluorene	mg/kg	0.012 U	0.036	0.012	04/18/19 10:58	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0076 U	0.033	0.0076	04/18/19 10:58	
Naphthalene	mg/kg	0.011 U	0.034	0.011	04/18/19 10:58	
Phenanthrene	mg/kg	0.011 U	0.033	0.011	04/18/19 10:58	
Pyrene	mg/kg	0.011 U	0.033	0.011	04/18/19 10:58	
2-Fluorobiphenyl (S)	%	78	29-101		04/18/19 10:58	
Nitrobenzene-d5 (S)	%	76	24-98		04/18/19 10:58	
p-Terphenyl-d14 (S)	%	93	29-112		04/18/19 10:58	

LABORATORY CONTROL SAMPLE: 2881194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	1.3	81	38-115	
2-Methylnaphthalene	mg/kg	1.7	1.3	77	37-115	
Acenaphthene	mg/kg	1.7	1.2	73	30-127	
Acenaphthylene	mg/kg	1.7	1.3	79	29-129	
Anthracene	mg/kg	1.7	1.3	80	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.5	93	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.4	83	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.4	81	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.4	83	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.3	81	39-133	
Chrysene	mg/kg	1.7	1.5	91	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.4	83	37-127	
Fluoranthene	mg/kg	1.7	1.4	81	39-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

LABORATORY CONTROL SAMPLE: 2881194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	mg/kg	1.7	1.4	82	35-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.4	84	35-133	
Naphthalene	mg/kg	1.7	1.2	74	36-115	
Phenanthrene	mg/kg	1.7	1.3	80	35-128	
Pyrene	mg/kg	1.7	1.6	94	37-132	
2-Fluorobiphenyl (S)	%			73	29-101	
Nitrobenzene-d5 (S)	%			69	24-98	
p-Terphenyl-d14 (S)	%			95	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2881211 2881212

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35462174007 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	mg/kg	0.015 U	1.8	1.9	1.4	1.4	74	73	38-115	0	40
2-Methylnaphthalene	mg/kg	0.014 U	1.8	1.9	1.3	1.3	71	71	37-115	1	40
Acenaphthene	mg/kg	0.013 U	1.8	1.9	1.3	1.3	68	68	30-127	1	40
Acenaphthylene	mg/kg	0.012 U	1.8	1.9	1.4	1.4	74	74	29-129	2	40
Anthracene	mg/kg	0.013 U	1.8	1.9	1.3	1.4	73	74	37-126	3	40
Benzo(a)anthracene	mg/kg	0.011 U	1.8	1.9	1.5	1.6	82	82	37-130	2	40
Benzo(a)pyrene	mg/kg	0.0093 U	1.8	1.9	1.4	1.4	74	74	39-128	2	40
Benzo(b)fluoranthene	mg/kg	0.010 U	1.8	1.9	1.3	1.3	71	71	38-128	3	40
Benzo(g,h,i)perylene	mg/kg	0.0094 U	1.8	1.9	1.4	1.4	75	72	34-136	3	40
Benzo(k)fluoranthene	mg/kg	0.010 U	1.8	1.9	1.4	1.4	74	75	39-133	2	40
Chrysene	mg/kg	0.012 U	1.8	1.9	1.5	1.5	81	82	39-125	2	40
Dibenz(a,h)anthracene	mg/kg	0.0086 U	1.8	1.9	1.4	1.4	75	73	37-127	1	40
Fluoranthene	mg/kg	0.012 U	1.8	1.9	1.4	1.4	76	75	39-130	1	40
Fluorene	mg/kg	0.013 U	1.8	1.9	1.4	1.4	76	76	35-125	2	40
Indeno(1,2,3-cd)pyrene	mg/kg	0.0086 U	1.8	1.9	1.4	1.4	75	74	35-133	0	40
Naphthalene	mg/kg	0.030 I	1.8	1.9	1.3	1.3	67	66	36-115	1	40
Phenanthrene	mg/kg	0.012 U	1.8	1.9	1.4	1.4	74	75	35-128	2	40
Pyrene	mg/kg	0.012 U	1.8	1.9	1.6	1.6	84	87	37-132	6	40
2-Fluorobiphenyl (S)	%						66	68	29-101		
Nitrobenzene-d5 (S)	%						61	61	24-98		
p-Terphenyl-d14 (S)	%						82	83	29-112		

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532204 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 35461863015, 35461863017

METHOD BLANK: 2883203 Matrix: Solid
Associated Lab Samples: 35461863015, 35461863017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	04/19/19 09:56	
2-Methylnaphthalene	mg/kg	0.013 U	0.038	0.013	04/19/19 09:56	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	04/19/19 09:56	
Acenaphthylene	mg/kg	0.010 U	0.034	0.010	04/19/19 09:56	
Anthracene	mg/kg	0.012 U	0.036	0.012	04/19/19 09:56	
Benzo(a)anthracene	mg/kg	0.0096 U	0.034	0.0096	04/19/19 09:56	
Benzo(a)pyrene	mg/kg	0.0083 U	0.034	0.0083	04/19/19 09:56	
Benzo(b)fluoranthene	mg/kg	0.0089 U	0.034	0.0089	04/19/19 09:56	
Benzo(g,h,i)perylene	mg/kg	0.0084 U	0.034	0.0084	04/19/19 09:56	
Benzo(k)fluoranthene	mg/kg	0.0089 U	0.034	0.0089	04/19/19 09:56	
Chrysene	mg/kg	0.011 U	0.034	0.011	04/19/19 09:56	
Dibenz(a,h)anthracene	mg/kg	0.0077 U	0.034	0.0077	04/19/19 09:56	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	04/19/19 09:56	
Fluorene	mg/kg	0.012 U	0.037	0.012	04/19/19 09:56	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0076 U	0.034	0.0076	04/19/19 09:56	
Naphthalene	mg/kg	0.011 U	0.035	0.011	04/19/19 09:56	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	04/19/19 09:56	
Pyrene	mg/kg	0.011 U	0.034	0.011	04/19/19 09:56	
2-Fluorobiphenyl (S)	%	74	29-101		04/19/19 09:56	
Nitrobenzene-d5 (S)	%	73	24-98		04/19/19 09:56	
p-Terphenyl-d14 (S)	%	89	29-112		04/19/19 09:56	

LABORATORY CONTROL SAMPLE: 2883204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	1.3	78	38-115	
2-Methylnaphthalene	mg/kg	1.7	1.2	73	37-115	
Acenaphthene	mg/kg	1.7	1.2	74	30-127	
Acenaphthylene	mg/kg	1.7	1.4	81	29-129	
Anthracene	mg/kg	1.7	1.4	81	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.6	94	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.4	83	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.4	81	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.4	85	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.3	80	39-133	
Chrysene	mg/kg	1.7	1.6	96	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.3	79	37-127	
Fluoranthene	mg/kg	1.7	1.4	87	39-130	
Fluorene	mg/kg	1.7	1.3	79	35-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.4	83	35-133	

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QUALITY CONTROL DATA

Project: Future Courthouse

Pace Project No.: 35461863

LABORATORY CONTROL SAMPLE: 2883204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	1.7	1.2	74	36-115	
Phenanthrene	mg/kg	1.7	1.4	84	35-128	
Pyrene	mg/kg	1.7	1.6	96	37-132	
2-Fluorobiphenyl (S)	%			71	29-101	
Nitrobenzene-d5 (S)	%			70	24-98	
p-Terphenyl-d14 (S)	%			88	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2883205 2883206

Parameter	Units	35459566019		2883205		2883206		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1-Methylnaphthalene	mg/kg	0.013 U	1.7	1.7	1.2	1.3	72	75	38-115	4	40	
2-Methylnaphthalene	mg/kg	0.013 U	1.7	1.7	1.2	1.2	69	73	37-115	6	40	
Acenaphthene	mg/kg	0.012 U	1.7	1.7	1.2	1.2	69	71	30-127	4	40	
Acenaphthylene	mg/kg	0.011 U	1.7	1.7	1.3	1.3	75	77	29-129	4	40	
Anthracene	mg/kg	0.012 U	1.7	1.7	1.3	1.3	76	77	37-126	3	40	
Benzo(a)anthracene	mg/kg	0.044	1.7	1.7	1.5	1.5	86	88	37-130	3	40	
Benzo(a)pyrene	mg/kg	0.075	1.7	1.7	1.3	1.3	75	74	39-128	0	40	
Benzo(b)fluoranthene	mg/kg	0.13	1.7	1.7	1.3	1.3	71	70	38-128	0	40	
Benzo(g,h,i)perylene	mg/kg	0.10	1.7	1.7	1.4	1.4	76	76	34-136	1	40	
Benzo(k)fluoranthene	mg/kg	0.054	1.7	1.7	1.3	1.3	75	77	39-133	4	40	
Chrysene	mg/kg	0.087	1.7	1.7	1.6	1.6	89	89	39-125	1	40	
Dibenz(a,h)anthracene	mg/kg	0.022 I	1.7	1.7	1.2	1.3	71	73	37-127	4	40	
Fluoranthene	mg/kg	0.091	1.7	1.7	1.4	1.4	80	79	39-130	0	40	
Fluorene	mg/kg	0.012 U	1.7	1.7	1.2	1.3	74	75	35-125	3	40	
Indeno(1,2,3-cd)pyrene	mg/kg	0.072	1.7	1.7	1.3	1.4	76	77	35-133	2	40	
Naphthalene	mg/kg	0.012 U	1.7	1.7	1.2	1.2	71	73	36-115	4	40	
Phenanthrene	mg/kg	0.023 I	1.7	1.7	1.3	1.4	78	79	35-128	2	40	
Pyrene	mg/kg	0.090	1.7	1.7	1.5	1.6	84	87	37-132	4	40	
2-Fluorobiphenyl (S)	%						67	68	29-101			
Nitrobenzene-d5 (S)	%						66	66	24-98			
p-Terphenyl-d14 (S)	%						77	78	29-112			

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 531902 Analysis Method: FL-PRO
QC Batch Method: EPA 3546 Analysis Description: FL-PRO Soil
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863009, 35461863010

METHOD BLANK: 2881207 Matrix: Solid
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863009, 35461863010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5 U	4.0	2.5	04/18/19 10:41	
N-Pentatriacontane (S)	%	113	42-159		04/18/19 10:41	
o-Terphenyl (S)	%	97	66-136		04/18/19 10:41	

LABORATORY CONTROL SAMPLE: 2881208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	199	178	89	65-119	
N-Pentatriacontane (S)	%			110	42-159	
o-Terphenyl (S)	%			104	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2881209 2881210

Parameter	Units	35462042001		2881210		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Petroleum Range Organics	mg/kg	3.4 I	220	223	197	218	88	96	39-181	10	25
N-Pentatriacontane (S)	%						112	114	42-159		
o-Terphenyl (S)	%						105	98	66-136		

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532206 Analysis Method: FL-PRO
QC Batch Method: EPA 3546 Analysis Description: FL-PRO Soil
Associated Lab Samples: 35461863011, 35461863012, 35461863015, 35461863017

METHOD BLANK: 2883207 Matrix: Solid
Associated Lab Samples: 35461863011, 35461863012, 35461863015, 35461863017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.6 U	4.0	2.6	04/19/19 11:58	
N-Pentatriacontane (S)	%	119	42-159		04/19/19 11:58	
o-Terphenyl (S)	%	104	66-136		04/19/19 11:58	

LABORATORY CONTROL SAMPLE: 2883208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	200	198	99	65-119	
N-Pentatriacontane (S)	%			110	42-159	
o-Terphenyl (S)	%			104	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2883209 2883210

Parameter	Units	35461730006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/kg	3.8 I	223	224	214	154	94	67	39-181	33	25	J(R1)
N-Pentatriacontane (S)	%						106	87	42-159			
o-Terphenyl (S)	%						99	77	66-136			

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 531796 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35461863001, 35461863002, 35461863003, 35461863004, 35461863005, 35461863006, 35461863007, 35461863008, 35461863017

SAMPLE DUPLICATE: 2880213

Parameter	Units	35461319001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.5	20.0	2	10	

SAMPLE DUPLICATE: 2880214

Parameter	Units	35461245005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	68.9	71.2	3	10	

SAMPLE DUPLICATE: 2880215

Parameter	Units	35461246006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.0	2.8	5	10	

SAMPLE DUPLICATE: 2880216

Parameter	Units	35461863002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.2	7.3	12	10	J(D6)

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35461863

QC Batch: 532735 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35461863009, 35461863010, 35461863011, 35461863012, 35461863013, 35461863014, 35461863015

SAMPLE DUPLICATE: 2886120

Parameter	Units	35461135007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	9.9	13	10	J(D6)

SAMPLE DUPLICATE: 2886121

Parameter	Units	35461863015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.1	17.1	11	10	J(D6)

SAMPLE DUPLICATE: 2886122

Parameter	Units	35462132003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	21.7	5	10	

SAMPLE DUPLICATE: 2886123

Parameter	Units	35462259002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	7.3	10	10	

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QUALIFIERS

Project: Future Courthouse

Pace Project No.: 35461863

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D4 Sample was diluted due to the presence of high levels of target analytes.

J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

J(R1) Estimated Value. RPD value was outside control limits.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse
Pace Project No.: 35461863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35461863001	SBC - 8 (0-6)	EPA 3546	531902	FL-PRO	531993
35461863002	SBC - 8 (6-2)	EPA 3546	531902	FL-PRO	531993
35461863003	SBC - 9 (0-6)	EPA 3546	531902	FL-PRO	531993
35461863004	SBC - 9 (6-2)	EPA 3546	531902	FL-PRO	531993
35461863005	SBC - 10 (0-6)	EPA 3546	531902	FL-PRO	531993
35461863006	SBC - 10 (6-2)	EPA 3546	531902	FL-PRO	531993
35461863007	SBC - 13 (0-6)	EPA 3546	531902	FL-PRO	531993
35461863008	SBC - 13 (6-2)	EPA 3546	531902	FL-PRO	531993
35461863009	SBC - 14 (0-6)	EPA 3546	531902	FL-PRO	531993
35461863010	SBC - 14 (6-2)	EPA 3546	531902	FL-PRO	531993
35461863011	SBC - 15 (0-6)	EPA 3546	532206	FL-PRO	532261
35461863012	SBC - 15 (6-2)	EPA 3546	532206	FL-PRO	532261
35461863015	SBC - 4 (0-6)	EPA 3546	532206	FL-PRO	532261
35461863017	SBC - 4 (6-2)	EPA 3546	532206	FL-PRO	532261
35461863001	SBC - 8 (0-6)	EPA 3050	532720	EPA 6010	532791
35461863002	SBC - 8 (6-2)	EPA 3050	532720	EPA 6010	532791
35461863003	SBC - 9 (0-6)	EPA 3050	532720	EPA 6010	532791
35461863004	SBC - 9 (6-2)	EPA 3050	532720	EPA 6010	532791
35461863005	SBC - 10 (0-6)	EPA 3050	532720	EPA 6010	532791
35461863006	SBC - 10 (6-2)	EPA 3050	532720	EPA 6010	532791
35461863007	SBC - 13 (0-6)	EPA 3050	532720	EPA 6010	532791
35461863008	SBC - 13 (6-2)	EPA 3050	532720	EPA 6010	532791
35461863009	SBC - 14 (0-6)	EPA 3050	532815	EPA 6010	532908
35461863010	SBC - 14 (6-2)	EPA 3050	532815	EPA 6010	532908
35461863011	SBC - 15 (0-6)	EPA 3050	532815	EPA 6010	532908
35461863012	SBC - 15 (6-2)	EPA 3050	532815	EPA 6010	532908
35461863015	SBC - 4 (0-6)	EPA 3050	532923	EPA 6010	532947
35461863017	SBC - 4 (6-2)	EPA 3050	532720	EPA 6010	532791
35461863013	SBC - 10 (0-6)	EPA 3546	531889	EPA 8270	531980
35461863014	SBC - 15 (0-6)	EPA 3546	531889	EPA 8270	531980
35461863001	SBC - 8 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863002	SBC - 8 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863003	SBC - 9 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863004	SBC - 9 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863005	SBC - 10 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863006	SBC - 10 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863007	SBC - 13 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863008	SBC - 13 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863009	SBC - 14 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863010	SBC - 14 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863011	SBC - 15 (0-6)	EPA 3546	531901	EPA 8270	532015
35461863012	SBC - 15 (6-2)	EPA 3546	531901	EPA 8270	532015
35461863015	SBC - 4 (0-6)	EPA 3546	532204	EPA 8270	532271
35461863017	SBC - 4 (6-2)	EPA 3546	532204	EPA 8270	532271

REPORT OF LABORATORY ANALYSIS

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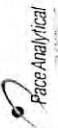
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse
Pace Project No.: 35461863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35461863001	SBC - 8 (0-6)	ASTM D2974-87	531796		
35461863002	SBC - 8 (6-2)	ASTM D2974-87	531796		
35461863003	SBC - 9 (0-6)	ASTM D2974-87	531796		
35461863004	SBC - 9 (6-2)	ASTM D2974-87	531796		
35461863005	SBC - 10 (0-6)	ASTM D2974-87	531796		
35461863006	SBC - 10 (6-2)	ASTM D2974-87	531796		
35461863007	SBC - 13 (0-6)	ASTM D2974-87	531796		
35461863008	SBC - 13 (6-2)	ASTM D2974-87	531796		
35461863009	SBC - 14 (0-6)	ASTM D2974-87	532735		
35461863010	SBC - 14 (6-2)	ASTM D2974-87	532735		
35461863011	SBC - 15 (0-6)	ASTM D2974-87	532735		
35461863012	SBC - 15 (6-2)	ASTM D2974-87	532735		
35461863013	SBC - 10 (0-6)	ASTM D2974-87	532735		
35461863014	SBC - 15 (0-6)	ASTM D2974-87	532735		
35461863015	SBC - 4 (0-6)	ASTM D2974-87	532735		
35461863017	SBC - 4 (6-2)	ASTM D2974-87	531796		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Section B	Section C
Required Client Information: Company: Smart-Sciences Address: 330 SW 27th Avenue Miami, FL 33135 Email: nidevinger@smart-sciences.com Phone: (786)527-0684 Fax:	Required Project Information: Report To: Meike Vringer Copy To: Purchase Order #: Future Courthouse Project Name: Project #:	Invoice Information: Attention: Meike de Vinger Company Name: Smart-Sciences Address: Pace Quote: Pace Project Manager: christina.raschke@pacelabs.com Pace Project #: 11613 State / Location: FL Regulatory Agency:

Page: 2 of 2

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES		Analyses Test Y/N	Requested Analysis (Y/N)
			START DATE	END DATE				H2SO4	Unpreserved		
1	SBC-10 (0"-6")	DW	4/15/19 15:06	4/15/19 15:06	SLC	SLC	1				
2	SBC-15 (0"-6")	WT	4/16/19 9:55	4/16/19 9:55							
3	SBC-A (0"-6")	WW									
4	SBC-4 (6"-2')	P									
5		Product									
6		Soil/Solid									
7		Oil									
8		Wipe									
9		Air									
10		Other									
11		Tissue									
12											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Andrea Orozco	4/16/19	10:23	Meike Vringer	4/16/19	10:23	-0.6
		4/16/19	12:25	Christina Raschke	4/16/19	12:25	
		4/16/19	8:14	Meike Vringer	4/16/19	12:14	

Received on: _____ Ice (Y/N): _____ Custody (Y/N): _____ Sealed (Y/N): _____ Cooler (Y/N): _____ Samples Intact (Y/N): _____	
TEMP in C: _____	
DATE Signed: 4/16/19	
SIGNATURE of SAMPLER: <i>[Signature]</i>	
PRINT Name of SAMPLER: Andrea Orozco	
SAMPLER NAME AND SIGNATURE: <i>[Signature]</i>	

Project # MO# : 35461863

Project Manager: PM: CTR Due Date: 04/23/19
 Client: CLIENT: 36-SMASC1

Date and Initials of person: _____
 Examining contents: _____
 Label: _____
 Deliver: _____
 pH: _____

Thermometer Used: T-332 Date: 4-11-19 Time: 0245 Initials: *[Signature]*
 State of Origin: _____
 For WV projects, all containers verified to 56 °C

Cooler #1 Temp. °C: 4.6 (Visual) 40.1 (Correction Factor) (Actual) _____
 Cooler #2 Temp. °C: _____ (Visual) _____ (Correction Factor) (Actual) _____
 Cooler #3 Temp. °C: _____ (Visual) _____ (Correction Factor) (Actual) _____
 Cooler #4 Temp. °C: _____ (Visual) _____ (Correction Factor) (Actual) _____
 Cooler #5 Temp. °C: _____ (Visual) _____ (Correction Factor) (Actual) _____
 Cooler #6 Temp. °C: _____ (Visual) _____ (Correction Factor) (Actual) _____
 Samples on ice, cooling process has begun

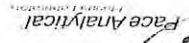
Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____
 Custody Seal on Cooler/Box Present: Yes No
 Seals Intact: Yes No
 Ice: Wet Blue Dry None
 Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (if Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____
 Comments: _____

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC, O&G, Carbamates	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Client Notification/ Resolution/ Person Contacted: _____ Date/Time: _____
 Comments/ Resolution (use back for additional comments): _____



Document Name Sample Condition Upon Receipt Form	Document No F-FL-C-007 rev 13	Document Revised May 30, 2018 Issuing Authority Face Florida Quality Office
---	----------------------------------	--

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T-330

Date: 4/16/19

For WV projects, all containers verified to 56 °C

State of Origin: FL

Cooler #1 Temp.: C 5.9 (Visual) 0.0 (Correction Factor) (Actual)

Cooler #2 Temp.: C (Visual) (Correction Factor) (Actual) Samples on ice, cooling process has begun

Cooler #3 Temp.: C (Visual) (Correction Factor) (Actual) Samples on ice, cooling process has begun

Cooler #4 Temp.: C (Visual) (Correction Factor) (Actual) Samples on ice, cooling process has begun

Cooler #5 Temp.: C (Visual) (Correction Factor) (Actual) Samples on ice, cooling process has begun

Cooler #6 Temp.: C (Visual) (Correction Factor) (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking #

Custody Seal on Cooler/Box Present: Yes No
Seals intact: Yes No
Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other

Samples sorted to lab (if Yes, complete) Shorted Date Shorted Time: Qty

Comments:

Chain of Custody Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Filled Out	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished Signature & Sampler Name COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Rush TAT requested on COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing acid/base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All Containers needing preservation are found to be in compliance with EPA recommendation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC, O&G, Carpathates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Headspace in VOA Vials? (>6mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution (use back for additional comments):

May 01, 2019

Meike de Vringer
Smart-Sciences
330 SW 27th Avenue
Suite 504
Miami, FL 33135

RE: Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

Dear Meike Vringer:

Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This is a revised report. The sample IDs have been revised.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Gisele Colbert, Smart-Sciences
Anthony Larenas, Arcadis
Patrick O'Connell, Arcadis
Andrea Orozco, Smart-Sciences
Stephanie Pilar, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35462259001	SBC-3 (0-6)	Solid	04/16/19 11:15	04/17/19 15:00
35462259002	SBC-3 (6-2)	Solid	04/16/19 11:15	04/17/19 15:00
35462259003	SBC-3 (6-2)	Solid	04/16/19 11:30	04/17/19 15:00
35462259004	SBC-4 (6-2)	Solid	04/16/19 09:50	04/17/19 15:00
35462259005	SBC-5 (0-6)	Solid	04/16/19 11:59	04/17/19 15:00
35462259006	SBC-5 (6-2)	Solid	04/16/19 11:59	04/17/19 15:00
35462259007	SBC-5 (0-6)	Solid	04/16/19 12:06	04/17/19 15:00
35462259008	SBC-1 (0-6)	Solid	04/17/19 09:43	04/17/19 15:00
35462259009	SBC-1 (6-2)	Solid	04/17/19 09:43	04/17/19 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35462259001	SBC-3 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259002	SBC-3 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259003	SBC-3 (6-2)	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259004	SBC-4 (6-2)	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259005	SBC-5 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259006	SBC-5 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259007	SBC-5 (0-6)	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259008	SBC-1 (0-6)	FL-PRO	BP2	3	PASI-O
		EPA 6010	SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462259009	SBC-1 (6-2)	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462259001	SBC-3 (0-6)					
FL-PRO	Petroleum Range Organics	1240	mg/kg	20.7	04/21/19 00:22	D4
EPA 6010	Arsenic	2.2	mg/kg	0.56	04/23/19 11:46	
EPA 6010	Cadmium	0.057	mg/kg	0.056	04/23/19 11:46	
EPA 6010	Chromium	5.2	mg/kg	0.28	04/23/19 11:46	
EPA 6010	Lead	10	mg/kg	0.56	04/23/19 11:46	
EPA 8270	Acenaphthene	0.091 l	mg/kg	0.19	04/20/19 20:44	D3
EPA 8270	Anthracene	0.18 l	mg/kg	0.19	04/20/19 20:44	D3
EPA 8270	Benzo(a)anthracene	0.38	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Benzo(a)pyrene	0.22	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Benzo(b)fluoranthene	0.40	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Benzo(g,h,i)perylene	0.11 l	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Benzo(k)fluoranthene	0.16 l	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Chrysene	0.56	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Fluoranthene	1.5	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Fluorene	0.078 l	mg/kg	0.19	04/20/19 20:44	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	0.12 l	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Phenanthrene	1.3	mg/kg	0.18	04/20/19 20:44	D3
EPA 8270	Pyrene	1.3	mg/kg	0.18	04/20/19 20:44	D3
ASTM D2974-87	Percent Moisture	4.1	%	0.10	04/22/19 10:25	
35462259002	SBC-3 (6-2)					
FL-PRO	Petroleum Range Organics	101	mg/kg	4.3	04/20/19 12:27	
EPA 6010	Arsenic	51.5	mg/kg	0.58	04/23/19 11:50	
EPA 6010	Cadmium	0.35	mg/kg	0.058	04/23/19 11:50	
EPA 6010	Chromium	5.6	mg/kg	0.29	04/23/19 11:50	
EPA 6010	Lead	86.4	mg/kg	0.58	04/23/19 11:50	
EPA 8270	Acenaphthylene	0.026 l	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Anthracene	0.038 l	mg/kg	0.038	04/20/19 21:09	
EPA 8270	Benzo(a)anthracene	0.23	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Benzo(a)pyrene	0.25	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Benzo(b)fluoranthene	0.37	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Benzo(g,h,i)perylene	0.15	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Benzo(k)fluoranthene	0.18	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Chrysene	0.31	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Dibenz(a,h)anthracene	0.037	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Fluoranthene	0.48	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.14	mg/kg	0.036	04/20/19 21:09	
EPA 8270	1-Methylnaphthalene	0.047	mg/kg	0.042	04/20/19 21:09	
EPA 8270	2-Methylnaphthalene	0.052	mg/kg	0.041	04/20/19 21:09	
EPA 8270	Naphthalene	0.043	mg/kg	0.037	04/20/19 21:09	
EPA 8270	Phenanthrene	0.22	mg/kg	0.036	04/20/19 21:09	
EPA 8270	Pyrene	0.45	mg/kg	0.036	04/20/19 21:09	
ASTM D2974-87	Percent Moisture	6.6	%	0.10	04/22/19 10:25	
35462259003	SBC-3 (6-2)					
ASTM D2974-87	Percent Moisture	86.4	%	0.10	04/22/19 10:25	
35462259004	SBC-4 (6-2)					
EPA 8270	2-Methylphenol(o-Cresol)	0.024 l	mg/kg	0.19	04/24/19 20:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462259004	SBC-4 (6-2)					
EPA 8270	3&4-Methylphenol(m&p Cresol)	0.037	l	mg/kg	0.19	04/24/19 20:12
EPA 8270	Phenol	0.070	l	mg/kg	0.19	04/24/19 20:12
ASTM D2974-87	Percent Moisture	9.2		%	0.10	04/22/19 10:25
35462259005	SBC-5 (0-6)					
FL-PRO	Petroleum Range Organics	1130		mg/kg	145	04/19/19 16:54 P1
EPA 6010	Arsenic	177		mg/kg	7.4	04/23/19 11:54
EPA 6010	Cadmium	10.4		mg/kg	0.74	04/23/19 11:54
EPA 6010	Chromium	253		mg/kg	3.7	04/23/19 11:54
EPA 6010	Lead	1020		mg/kg	7.4	04/23/19 11:54
EPA 8270	Anthracene	0.61	l	mg/kg	1.6	04/20/19 21:34 P1
EPA 8270	Benzo(a)anthracene	8.7		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Benzo(a)pyrene	9.1		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Benzo(b)fluoranthene	14.4		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Benzo(g,h,i)perylene	5.6		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Benzo(k)fluoranthene	6.1		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Chrysene	11.9		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Dibenz(a,h)anthracene	1.3	l	mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Fluoranthene	17.4		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Indeno(1,2,3-cd)pyrene	5.0		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Phenanthrene	4.5		mg/kg	1.5	04/20/19 21:34 P1
EPA 8270	Pyrene	14.4		mg/kg	1.5	04/20/19 21:34 P1
ASTM D2974-87	Percent Moisture	93.7		%	0.10	04/22/19 10:25
35462259006	SBC-5 (6-2)					
FL-PRO	Petroleum Range Organics	181		mg/kg	13.8	04/20/19 12:42 P1
EPA 6010	Arsenic	53.3		mg/kg	0.87	04/23/19 11:58
EPA 6010	Cadmium	0.79		mg/kg	0.087	04/23/19 11:58
EPA 6010	Chromium	18.8		mg/kg	0.44	04/23/19 11:58
EPA 6010	Lead	174		mg/kg	0.87	04/23/19 11:58
EPA 8270	Acenaphthylene	0.17		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Anthracene	0.15	l	mg/kg	0.16	04/20/19 21:58 P1
EPA 8270	Benzo(a)anthracene	1.0		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Benzo(a)pyrene	1.2		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Benzo(b)fluoranthene	1.9		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Benzo(g,h,i)perylene	0.72		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Benzo(k)fluoranthene	0.82		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Chrysene	1.5		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Dibenz(a,h)anthracene	0.16		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Fluoranthene	2.0		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.63		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	1-Methylnaphthalene	0.10	l	mg/kg	0.17	04/20/19 21:58 P1
EPA 8270	2-Methylnaphthalene	0.12	l	mg/kg	0.17	04/20/19 21:58 P1
EPA 8270	Naphthalene	0.13	l	mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Phenanthrene	0.57		mg/kg	0.15	04/20/19 21:58 P1
EPA 8270	Pyrene	1.8		mg/kg	0.15	04/20/19 21:58 P1
ASTM D2974-87	Percent Moisture	31.5		%	0.10	04/22/19 10:25

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35462259007	SBC-5 (0-6)					
EPA 8270	Phenol	0.12	l	mg/kg	0.25	04/24/19 20:38
ASTM D2974-87	Percent Moisture	31.5		%	0.10	04/22/19 10:25
35462259008	SBC-1 (0-6)					
FL-PRO	Petroleum Range Organics	288		mg/kg	4.6	04/20/19 12:42
EPA 6010	Arsenic	4.8		mg/kg	0.61	04/23/19 12:06
EPA 6010	Cadmium	0.30		mg/kg	0.061	04/23/19 12:06
EPA 6010	Chromium	12.3		mg/kg	0.30	04/23/19 12:06
EPA 6010	Lead	26.5		mg/kg	0.61	04/23/19 12:06
EPA 8270	Acenaphthylene	0.27		mg/kg	0.039	04/20/19 22:23
EPA 8270	Anthracene	0.30		mg/kg	0.042	04/20/19 22:23
EPA 8270	Benzo(a)anthracene	1.1		mg/kg	0.039	04/20/19 22:23
EPA 8270	Benzo(a)pyrene	0.96		mg/kg	0.039	04/20/19 22:23
EPA 8270	Benzo(b)fluoranthene	1.7		mg/kg	0.039	04/20/19 22:23
EPA 8270	Benzo(g,h,i)perylene	0.43		mg/kg	0.039	04/20/19 22:23
EPA 8270	Benzo(k)fluoranthene	0.67		mg/kg	0.039	04/20/19 22:23
EPA 8270	Chrysene	1.2		mg/kg	0.039	04/20/19 22:23
EPA 8270	Dibenz(a,h)anthracene	0.14		mg/kg	0.039	04/20/19 22:23
EPA 8270	Fluoranthene	1.3		mg/kg	0.039	04/20/19 22:23
EPA 8270	Fluorene	0.022	l	mg/kg	0.043	04/20/19 22:23
EPA 8270	Indeno(1,2,3-cd)pyrene	0.43		mg/kg	0.039	04/20/19 22:23
EPA 8270	1-Methylnaphthalene	0.057		mg/kg	0.046	04/20/19 22:23
EPA 8270	2-Methylnaphthalene	0.071		mg/kg	0.045	04/20/19 22:23
EPA 8270	Naphthalene	0.064		mg/kg	0.040	04/20/19 22:23
EPA 8270	Phenanthrene	0.31		mg/kg	0.039	04/20/19 22:23
EPA 8270	Pyrene	1.3		mg/kg	0.039	04/20/19 22:23
ASTM D2974-87	Percent Moisture	14.0		%	0.10	04/22/19 10:25
35462259009	SBC-1 (6-2)					
FL-PRO	Petroleum Range Organics	177		mg/kg	4.4	04/20/19 12:58
EPA 6010	Arsenic	41.5		mg/kg	0.56	04/23/19 12:22
EPA 6010	Cadmium	0.46		mg/kg	0.056	04/23/19 12:22
EPA 6010	Chromium	21.0		mg/kg	2.8	04/23/19 17:54
EPA 6010	Lead	160		mg/kg	5.6	04/23/19 17:54
EPA 8270	Anthracene	0.026	l	mg/kg	0.040	04/20/19 22:48
EPA 8270	Benzo(a)anthracene	0.28		mg/kg	0.037	04/20/19 22:48
EPA 8270	Benzo(a)pyrene	0.31		mg/kg	0.037	04/20/19 22:48
EPA 8270	Benzo(b)fluoranthene	0.54		mg/kg	0.037	04/20/19 22:48
EPA 8270	Benzo(g,h,i)perylene	0.19		mg/kg	0.037	04/20/19 22:48
EPA 8270	Benzo(k)fluoranthene	0.19		mg/kg	0.037	04/20/19 22:48
EPA 8270	Chrysene	0.40		mg/kg	0.037	04/20/19 22:48
EPA 8270	Dibenz(a,h)anthracene	0.044		mg/kg	0.037	04/20/19 22:48
EPA 8270	Fluoranthene	0.53		mg/kg	0.037	04/20/19 22:48
EPA 8270	Indeno(1,2,3-cd)pyrene	0.16		mg/kg	0.037	04/20/19 22:48
EPA 8270	Phenanthrene	0.15		mg/kg	0.037	04/20/19 22:48
EPA 8270	Pyrene	0.49		mg/kg	0.037	04/20/19 22:48
ASTM D2974-87	Percent Moisture	9.3		%	0.10	04/22/19 10:26

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Project No.: 35462259

Sample: **SBC-3 (0-6)** Lab ID: **35462259001** Collected: 04/16/19 11:15 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	1240	mg/kg	20.7	13.2	5	04/19/19 07:21	04/21/19 00:22		D4
Surrogates									
o-Terphenyl (S)	95	%	66-136		5	04/19/19 07:21	04/21/19 00:22	84-15-1	
N-Pentatriacontane (S)	99	%	42-159		5	04/19/19 07:21	04/21/19 00:22	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.2	mg/kg	0.56	0.28	1	04/23/19 02:57	04/23/19 11:46	7440-38-2	
Cadmium	0.057	mg/kg	0.056	0.028	1	04/23/19 02:57	04/23/19 11:46	7440-43-9	
Chromium	5.2	mg/kg	0.28	0.14	1	04/23/19 02:57	04/23/19 11:46	7440-47-3	
Lead	10	mg/kg	0.56	0.28	1	04/23/19 02:57	04/23/19 11:46	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.091 I	mg/kg	0.19	0.061	5	04/19/19 07:54	04/20/19 20:44	83-32-9	D3
Acenaphthylene	0.055 U	mg/kg	0.18	0.055	5	04/19/19 07:54	04/20/19 20:44	208-96-8	D3
Anthracene	0.18 I	mg/kg	0.19	0.062	5	04/19/19 07:54	04/20/19 20:44	120-12-7	D3
Benzo(a)anthracene	0.38	mg/kg	0.18	0.050	5	04/19/19 07:54	04/20/19 20:44	56-55-3	D3
Benzo(a)pyrene	0.22	mg/kg	0.18	0.044	5	04/19/19 07:54	04/20/19 20:44	50-32-8	D3
Benzo(b)fluoranthene	0.40	mg/kg	0.18	0.047	5	04/19/19 07:54	04/20/19 20:44	205-99-2	D3
Benzo(g,h,i)perylene	0.11 I	mg/kg	0.18	0.044	5	04/19/19 07:54	04/20/19 20:44	191-24-2	D3
Benzo(k)fluoranthene	0.16 I	mg/kg	0.18	0.047	5	04/19/19 07:54	04/20/19 20:44	207-08-9	D3
Chrysene	0.56	mg/kg	0.18	0.056	5	04/19/19 07:54	04/20/19 20:44	218-01-9	D3
Dibenz(a,h)anthracene	0.040 U	mg/kg	0.18	0.040	5	04/19/19 07:54	04/20/19 20:44	53-70-3	D3
Fluoranthene	1.5	mg/kg	0.18	0.058	5	04/19/19 07:54	04/20/19 20:44	206-44-0	D3
Fluorene	0.078 I	mg/kg	0.19	0.063	5	04/19/19 07:54	04/20/19 20:44	86-73-7	D3
Indeno(1,2,3-cd)pyrene	0.12 I	mg/kg	0.18	0.040	5	04/19/19 07:54	04/20/19 20:44	193-39-5	D3
1-Methylnaphthalene	0.069 U	mg/kg	0.21	0.069	5	04/19/19 07:54	04/20/19 20:44	90-12-0	D3
2-Methylnaphthalene	0.067 U	mg/kg	0.20	0.067	5	04/19/19 07:54	04/20/19 20:44	91-57-6	D3
Naphthalene	0.060 U	mg/kg	0.18	0.060	5	04/19/19 07:54	04/20/19 20:44	91-20-3	D3
Phenanthrene	1.3	mg/kg	0.18	0.058	5	04/19/19 07:54	04/20/19 20:44	85-01-8	D3
Pyrene	1.3	mg/kg	0.18	0.055	5	04/19/19 07:54	04/20/19 20:44	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	52	%	24-98		5	04/19/19 07:54	04/20/19 20:44	4165-60-0	
2-Fluorobiphenyl (S)	50	%	29-101		5	04/19/19 07:54	04/20/19 20:44	321-60-8	
p-Terphenyl-d14 (S)	54	%	29-112		5	04/19/19 07:54	04/20/19 20:44	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.1	%	0.10	0.10	1		04/22/19 10:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Sample: **SBC-3 (6-2)** Lab ID: **35462259002** Collected: 04/16/19 11:15 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	101	mg/kg	4.3	2.7	1	04/19/19 07:21	04/20/19 12:27		
Surrogates									
o-Terphenyl (S)	88	%	66-136		1	04/19/19 07:21	04/20/19 12:27	84-15-1	
N-Pentatriacontane (S)	101	%	42-159		1	04/19/19 07:21	04/20/19 12:27	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	51.5	mg/kg	0.58	0.29	1	04/23/19 02:57	04/23/19 11:50	7440-38-2	
Cadmium	0.35	mg/kg	0.058	0.029	1	04/23/19 02:57	04/23/19 11:50	7440-43-9	
Chromium	5.6	mg/kg	0.29	0.14	1	04/23/19 02:57	04/23/19 11:50	7440-47-3	
Lead	86.4	mg/kg	0.58	0.29	1	04/23/19 02:57	04/23/19 11:50	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.012 U	mg/kg	0.038	0.012	1	04/19/19 07:54	04/20/19 21:09	83-32-9	
Acenaphthylene	0.026 I	mg/kg	0.036	0.011	1	04/19/19 07:54	04/20/19 21:09	208-96-8	
Anthracene	0.038 I	mg/kg	0.038	0.013	1	04/19/19 07:54	04/20/19 21:09	120-12-7	
Benzo(a)anthracene	0.23	mg/kg	0.036	0.010	1	04/19/19 07:54	04/20/19 21:09	56-55-3	
Benzo(a)pyrene	0.25	mg/kg	0.036	0.0089	1	04/19/19 07:54	04/20/19 21:09	50-32-8	
Benzo(b)fluoranthene	0.37	mg/kg	0.036	0.0095	1	04/19/19 07:54	04/20/19 21:09	205-99-2	
Benzo(g,h,i)perylene	0.15	mg/kg	0.036	0.0090	1	04/19/19 07:54	04/20/19 21:09	191-24-2	
Benzo(k)fluoranthene	0.18	mg/kg	0.036	0.0095	1	04/19/19 07:54	04/20/19 21:09	207-08-9	
Chrysene	0.31	mg/kg	0.036	0.011	1	04/19/19 07:54	04/20/19 21:09	218-01-9	
Dibenz(a,h)anthracene	0.037	mg/kg	0.036	0.0082	1	04/19/19 07:54	04/20/19 21:09	53-70-3	
Fluoranthene	0.48	mg/kg	0.036	0.012	1	04/19/19 07:54	04/20/19 21:09	206-44-0	
Fluorene	0.013 U	mg/kg	0.039	0.013	1	04/19/19 07:54	04/20/19 21:09	86-73-7	
Indeno(1,2,3-cd)pyrene	0.14	mg/kg	0.036	0.0082	1	04/19/19 07:54	04/20/19 21:09	193-39-5	
1-Methylnaphthalene	0.047	mg/kg	0.042	0.014	1	04/19/19 07:54	04/20/19 21:09	90-12-0	
2-Methylnaphthalene	0.052	mg/kg	0.041	0.014	1	04/19/19 07:54	04/20/19 21:09	91-57-6	
Naphthalene	0.043	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 21:09	91-20-3	
Phenanthrene	0.22	mg/kg	0.036	0.012	1	04/19/19 07:54	04/20/19 21:09	85-01-8	
Pyrene	0.45	mg/kg	0.036	0.011	1	04/19/19 07:54	04/20/19 21:09	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	50	%	24-98		1	04/19/19 07:54	04/20/19 21:09	4165-60-0	
2-Fluorobiphenyl (S)	50	%	29-101		1	04/19/19 07:54	04/20/19 21:09	321-60-8	
p-Terphenyl-d14 (S)	53	%	29-112		1	04/19/19 07:54	04/20/19 21:09	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	6.6	%	0.10	0.10	1		04/22/19 10:25		

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Sample: **SBC-3 (6-2)** Lab ID: **35462259003** Collected: 04/16/19 11:30 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Phenol	0.36 U	mg/kg	6.3	0.36	5	04/26/19 04:22	04/26/19 16:53	108-95-2	D3
2-Chlorophenol	0.27 U	mg/kg	6.3	0.27	5	04/26/19 04:22	04/26/19 16:53	95-57-8	D3
2-Methylphenol(o-Cresol)	0.30 U	mg/kg	6.3	0.30	5	04/26/19 04:22	04/26/19 16:53	95-48-7	D3
2-Nitrophenol	2.0 U	mg/kg	6.3	2.0	5	04/26/19 04:22	04/26/19 16:53	88-75-5	D3
2,4-Dimethylphenol	0.29 U	mg/kg	6.3	0.29	5	04/26/19 04:22	04/26/19 16:53	105-67-9	D3
2,4-Dichlorophenol	0.28 U	mg/kg	6.3	0.28	5	04/26/19 04:22	04/26/19 16:53	120-83-2	D3
4-Chloro-3-methylphenol	0.25 U	mg/kg	25.0	0.25	5	04/26/19 04:22	04/26/19 16:53	59-50-7	D3
2,4,6-Trichlorophenol	0.34 U	mg/kg	6.3	0.34	5	04/26/19 04:22	04/26/19 16:53	88-06-2	D3
2,4,5-Trichlorophenol	0.25 U	mg/kg	6.3	0.25	5	04/26/19 04:22	04/26/19 16:53	95-95-4	D3
2,4-Dinitrophenol	3.8 U	mg/kg	25.0	3.8	5	04/26/19 04:22	04/26/19 16:53	51-28-5	D3
4-Nitrophenol	2.7 U	mg/kg	8.1	2.7	5	04/26/19 04:22	04/26/19 16:53	100-02-7	D3
4,6-Dinitro-2-methylphenol	4.1 U	mg/kg	25.0	4.1	5	04/26/19 04:22	04/26/19 16:53	534-52-1	D3
Pentachlorophenol	3.2 U	mg/kg	25.0	3.2	5	04/26/19 04:22	04/26/19 16:53	87-86-5	D3
3&4-Methylphenol(m&p Cresol)	0.29 U	mg/kg	6.3	0.29	5	04/26/19 04:22	04/26/19 16:53		D3
2,6-Dichlorophenol	0.22 U	mg/kg	6.3	0.22	5	04/26/19 04:22	04/26/19 16:53	87-65-0	D3,N2
2,3,4,6-Tetrachlorophenol	1.5 U	mg/kg	12.7	1.5	5	04/26/19 04:22	04/26/19 16:53	58-90-2	D3
Surrogates									
Nitrobenzene-d5 (S)	7	%	24-98		1	04/23/19 09:40	04/24/19 19:45	4165-60-0	J(S0)
Nitrobenzene-d5 (S)	51	%	24-98		5	04/26/19 04:22	04/26/19 16:53	4165-60-0	
2-Fluorobiphenyl (S)	3	%	29-101		1	04/23/19 09:40	04/24/19 19:45	321-60-8	J(S0)
2-Fluorobiphenyl (S)	49	%	29-101		5	04/26/19 04:22	04/26/19 16:53	321-60-8	
p-Terphenyl-d14 (S)	59	%	29-112		5	04/26/19 04:22	04/26/19 16:53	1718-51-0	
p-Terphenyl-d14 (S)	6	%	29-112		1	04/23/19 09:40	04/24/19 19:45	1718-51-0	J(S0)
Phenol-d5 (S)	24	%	10-104		1	04/23/19 09:40	04/24/19 19:45	4165-62-2	
Phenol-d5 (S)	47	%	10-104		5	04/26/19 04:22	04/26/19 16:53	4165-62-2	
2-Fluorophenol (S)	47	%	19-95		5	04/26/19 04:22	04/26/19 16:53	367-12-4	
2-Fluorophenol (S)	14	%	19-95		1	04/23/19 09:40	04/24/19 19:45	367-12-4	J(S0)
2,4,6-Tribromophenol (S)	48	%	23-110		5	04/26/19 04:22	04/26/19 16:53	118-79-6	
2,4,6-Tribromophenol (S)	2	%	23-110		1	04/23/19 09:40	04/24/19 19:45	118-79-6	J(S0)
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	86.4	%	0.10	0.10	1		04/22/19 10:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Sample: **SBC-4 (6-2)** Lab ID: **35462259004** Collected: 04/16/19 09:50 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,3,4,6-Tetrachlorophenol	0.044 U	mg/kg	0.37	0.044	1	04/23/19 09:40	04/24/19 20:12	58-90-2	
2,4,5-Trichlorophenol	0.0074 U	mg/kg	0.19	0.0074	1	04/23/19 09:40	04/24/19 20:12	95-95-4	
2,4,6-Trichlorophenol	0.010 U	mg/kg	0.19	0.010	1	04/23/19 09:40	04/24/19 20:12	88-06-2	
2,4-Dichlorophenol	0.0083 U	mg/kg	0.19	0.0083	1	04/23/19 09:40	04/24/19 20:12	120-83-2	
2,4-Dimethylphenol	0.0084 U	mg/kg	0.19	0.0084	1	04/23/19 09:40	04/24/19 20:12	105-67-9	
2,4-Dinitrophenol	0.11 U	mg/kg	0.74	0.11	1	04/23/19 09:40	04/24/19 20:12	51-28-5	
2,6-Dichlorophenol	0.0064 U	mg/kg	0.19	0.0064	1	04/23/19 09:40	04/24/19 20:12	87-65-0	N2
2-Chlorophenol	0.0080 U	mg/kg	0.19	0.0080	1	04/23/19 09:40	04/24/19 20:12	95-57-8	
2-Methylphenol(o-Cresol)	0.024 I	mg/kg	0.19	0.0090	1	04/23/19 09:40	04/24/19 20:12	95-48-7	
2-Nitrophenol	0.059 U	mg/kg	0.19	0.059	1	04/23/19 09:40	04/24/19 20:12	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.037 I	mg/kg	0.19	0.0085	1	04/23/19 09:40	04/24/19 20:12		
4,6-Dinitro-2-methylphenol	0.12 U	mg/kg	0.74	0.12	1	04/23/19 09:40	04/24/19 20:12	534-52-1	
4-Chloro-3-methylphenol	0.0074 U	mg/kg	0.74	0.0074	1	04/23/19 09:40	04/24/19 20:12	59-50-7	
4-Nitrophenol	0.080 U	mg/kg	0.24	0.080	1	04/23/19 09:40	04/24/19 20:12	100-02-7	
Pentachlorophenol	0.096 U	mg/kg	0.74	0.096	1	04/23/19 09:40	04/24/19 20:12	87-86-5	
Phenol	0.070 I	mg/kg	0.19	0.011	1	04/23/19 09:40	04/24/19 20:12	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	34	%	24-98		1	04/23/19 09:40	04/24/19 20:12	4165-60-0	
2-Fluorobiphenyl (S)	48	%	29-101		1	04/23/19 09:40	04/24/19 20:12	321-60-8	
p-Terphenyl-d14 (S)	49	%	29-112		1	04/23/19 09:40	04/24/19 20:12	1718-51-0	
Phenol-d5 (S)	30	%	10-104		1	04/23/19 09:40	04/24/19 20:12	4165-62-2	
2-Fluorophenol (S)	33	%	19-95		1	04/23/19 09:40	04/24/19 20:12	367-12-4	
2,4,6-Tribromophenol (S)	32	%	23-110		1	04/23/19 09:40	04/24/19 20:12	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.2	%	0.10	0.10	1		04/22/19 10:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Project No.: 35462259

Sample: **SBC-5 (0-6)** Lab ID: **35462259005** Collected: 04/16/19 11:59 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	1130	mg/kg	145	92.1	1	04/19/19 07:21	04/19/19 16:54		P1
Surrogates									
o-Terphenyl (S)	96	%	66-136		1	04/19/19 07:21	04/19/19 16:54	84-15-1	
N-Pentatriacontane (S)	102	%	42-159		1	04/19/19 07:21	04/19/19 16:54	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	177	mg/kg	7.4	3.7	1	04/23/19 02:57	04/23/19 11:54	7440-38-2	
Cadmium	10.4	mg/kg	0.74	0.37	1	04/23/19 02:57	04/23/19 11:54	7440-43-9	
Chromium	253	mg/kg	3.7	1.9	1	04/23/19 02:57	04/23/19 11:54	7440-47-3	
Lead	1020	mg/kg	7.4	3.7	1	04/23/19 02:57	04/23/19 11:54	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.51 U	mg/kg	1.6	0.51	1	04/19/19 07:54	04/20/19 21:34	83-32-9	P1
Acenaphthylene	0.46 U	mg/kg	1.5	0.46	1	04/19/19 07:54	04/20/19 21:34	208-96-8	P1
Anthracene	0.61 I	mg/kg	1.6	0.52	1	04/19/19 07:54	04/20/19 21:34	120-12-7	P1
Benzo(a)anthracene	8.7	mg/kg	1.5	0.42	1	04/19/19 07:54	04/20/19 21:34	56-55-3	P1
Benzo(a)pyrene	9.1	mg/kg	1.5	0.36	1	04/19/19 07:54	04/20/19 21:34	50-32-8	P1
Benzo(b)fluoranthene	14.4	mg/kg	1.5	0.39	1	04/19/19 07:54	04/20/19 21:34	205-99-2	P1
Benzo(g,h,i)perylene	5.6	mg/kg	1.5	0.37	1	04/19/19 07:54	04/20/19 21:34	191-24-2	P1
Benzo(k)fluoranthene	6.1	mg/kg	1.5	0.39	1	04/19/19 07:54	04/20/19 21:34	207-08-9	P1
Chrysene	11.9	mg/kg	1.5	0.46	1	04/19/19 07:54	04/20/19 21:34	218-01-9	P1
Dibenz(a,h)anthracene	1.3 I	mg/kg	1.5	0.34	1	04/19/19 07:54	04/20/19 21:34	53-70-3	P1
Fluoranthene	17.4	mg/kg	1.5	0.48	1	04/19/19 07:54	04/20/19 21:34	206-44-0	P1
Fluorene	0.52 U	mg/kg	1.6	0.52	1	04/19/19 07:54	04/20/19 21:34	86-73-7	P1
Indeno(1,2,3-cd)pyrene	5.0	mg/kg	1.5	0.33	1	04/19/19 07:54	04/20/19 21:34	193-39-5	P1
1-Methylnaphthalene	0.57 U	mg/kg	1.7	0.57	1	04/19/19 07:54	04/20/19 21:34	90-12-0	P1
2-Methylnaphthalene	0.56 U	mg/kg	1.7	0.56	1	04/19/19 07:54	04/20/19 21:34	91-57-6	P1
Naphthalene	0.50 U	mg/kg	1.5	0.50	1	04/19/19 07:54	04/20/19 21:34	91-20-3	P1
Phenanthrene	4.5	mg/kg	1.5	0.48	1	04/19/19 07:54	04/20/19 21:34	85-01-8	P1
Pyrene	14.4	mg/kg	1.5	0.46	1	04/19/19 07:54	04/20/19 21:34	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	58	%	24-98		1	04/19/19 07:54	04/20/19 21:34	4165-60-0	
2-Fluorobiphenyl (S)	62	%	29-101		1	04/19/19 07:54	04/20/19 21:34	321-60-8	
p-Terphenyl-d14 (S)	68	%	29-112		1	04/19/19 07:54	04/20/19 21:34	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	93.7	%	0.10	0.10	1		04/22/19 10:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Project No.: 35462259

Sample: **SBC-5 (6-2)** Lab ID: **35462259006** Collected: 04/16/19 11:59 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	181	mg/kg	13.8	8.8	1	04/19/19 07:21	04/20/19 12:42		P1
Surrogates									
o-Terphenyl (S)	97	%	66-136		1	04/19/19 07:21	04/20/19 12:42	84-15-1	
N-Pentatriacontane (S)	98	%	42-159		1	04/19/19 07:21	04/20/19 12:42	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	53.3	mg/kg	0.87	0.44	1	04/23/19 02:57	04/23/19 11:58	7440-38-2	
Cadmium	0.79	mg/kg	0.087	0.044	1	04/23/19 02:57	04/23/19 11:58	7440-43-9	
Chromium	18.8	mg/kg	0.44	0.22	1	04/23/19 02:57	04/23/19 11:58	7440-47-3	
Lead	174	mg/kg	0.87	0.44	1	04/23/19 02:57	04/23/19 11:58	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.051 U	mg/kg	0.16	0.051	1	04/19/19 07:54	04/20/19 21:58	83-32-9	P1
Acenaphthylene	0.17	mg/kg	0.15	0.046	1	04/19/19 07:54	04/20/19 21:58	208-96-8	P1
Anthracene	0.15 I	mg/kg	0.16	0.052	1	04/19/19 07:54	04/20/19 21:58	120-12-7	P1
Benzo(a)anthracene	1.0	mg/kg	0.15	0.042	1	04/19/19 07:54	04/20/19 21:58	56-55-3	P1
Benzo(a)pyrene	1.2	mg/kg	0.15	0.036	1	04/19/19 07:54	04/20/19 21:58	50-32-8	P1
Benzo(b)fluoranthene	1.9	mg/kg	0.15	0.039	1	04/19/19 07:54	04/20/19 21:58	205-99-2	P1
Benzo(g,h,i)perylene	0.72	mg/kg	0.15	0.037	1	04/19/19 07:54	04/20/19 21:58	191-24-2	P1
Benzo(k)fluoranthene	0.82	mg/kg	0.15	0.039	1	04/19/19 07:54	04/20/19 21:58	207-08-9	P1
Chrysene	1.5	mg/kg	0.15	0.047	1	04/19/19 07:54	04/20/19 21:58	218-01-9	P1
Dibenz(a,h)anthracene	0.16	mg/kg	0.15	0.034	1	04/19/19 07:54	04/20/19 21:58	53-70-3	P1
Fluoranthene	2.0	mg/kg	0.15	0.048	1	04/19/19 07:54	04/20/19 21:58	206-44-0	P1
Fluorene	0.052 U	mg/kg	0.16	0.052	1	04/19/19 07:54	04/20/19 21:58	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.63	mg/kg	0.15	0.034	1	04/19/19 07:54	04/20/19 21:58	193-39-5	P1
1-Methylnaphthalene	0.10 I	mg/kg	0.17	0.058	1	04/19/19 07:54	04/20/19 21:58	90-12-0	P1
2-Methylnaphthalene	0.12 I	mg/kg	0.17	0.056	1	04/19/19 07:54	04/20/19 21:58	91-57-6	P1
Naphthalene	0.13 I	mg/kg	0.15	0.050	1	04/19/19 07:54	04/20/19 21:58	91-20-3	P1
Phenanthrene	0.57	mg/kg	0.15	0.048	1	04/19/19 07:54	04/20/19 21:58	85-01-8	P1
Pyrene	1.8	mg/kg	0.15	0.046	1	04/19/19 07:54	04/20/19 21:58	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	66	%	24-98		1	04/19/19 07:54	04/20/19 21:58	4165-60-0	
2-Fluorobiphenyl (S)	68	%	29-101		1	04/19/19 07:54	04/20/19 21:58	321-60-8	
p-Terphenyl-d14 (S)	75	%	29-112		1	04/19/19 07:54	04/20/19 21:58	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	31.5	%	0.10	0.10	1		04/22/19 10:25		

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

Sample: **SBC-5 (0-6)** Lab ID: **35462259007** Collected: 04/16/19 12:06 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.059 U	mg/kg	0.50	0.059	1	04/23/19 09:40	04/24/19 20:38	58-90-2	
2,4,5-Trichlorophenol	0.0098 U	mg/kg	0.25	0.0098	1	04/23/19 09:40	04/24/19 20:38	95-95-4	
2,4,6-Trichlorophenol	0.013 U	mg/kg	0.25	0.013	1	04/23/19 09:40	04/24/19 20:38	88-06-2	
2,4-Dichlorophenol	0.011 U	mg/kg	0.25	0.011	1	04/23/19 09:40	04/24/19 20:38	120-83-2	
2,4-Dimethylphenol	0.011 U	mg/kg	0.25	0.011	1	04/23/19 09:40	04/24/19 20:38	105-67-9	
2,4-Dinitrophenol	0.15 U	mg/kg	0.98	0.15	1	04/23/19 09:40	04/24/19 20:38	51-28-5	
2,6-Dichlorophenol	0.0085 U	mg/kg	0.25	0.0085	1	04/23/19 09:40	04/24/19 20:38	87-65-0	N2
2-Chlorophenol	0.011 U	mg/kg	0.25	0.011	1	04/23/19 09:40	04/24/19 20:38	95-57-8	
2-Methylphenol(o-Cresol)	0.012 U	mg/kg	0.25	0.012	1	04/23/19 09:40	04/24/19 20:38	95-48-7	
2-Nitrophenol	0.079 U	mg/kg	0.25	0.079	1	04/23/19 09:40	04/24/19 20:38	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.011 U	mg/kg	0.25	0.011	1	04/23/19 09:40	04/24/19 20:38		
4,6-Dinitro-2-methylphenol	0.16 U	mg/kg	0.98	0.16	1	04/23/19 09:40	04/24/19 20:38	534-52-1	
4-Chloro-3-methylphenol	0.0099 U	mg/kg	0.98	0.0099	1	04/23/19 09:40	04/24/19 20:38	59-50-7	
4-Nitrophenol	0.11 U	mg/kg	0.32	0.11	1	04/23/19 09:40	04/24/19 20:38	100-02-7	
Pentachlorophenol	0.13 U	mg/kg	0.98	0.13	1	04/23/19 09:40	04/24/19 20:38	87-86-5	
Phenol	0.12 I	mg/kg	0.25	0.014	1	04/23/19 09:40	04/24/19 20:38	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	41	%	24-98		1	04/23/19 09:40	04/24/19 20:38	4165-60-0	
2-Fluorobiphenyl (S)	48	%	29-101		1	04/23/19 09:40	04/24/19 20:38	321-60-8	
p-Terphenyl-d14 (S)	42	%	29-112		1	04/23/19 09:40	04/24/19 20:38	1718-51-0	
Phenol-d5 (S)	42	%	10-104		1	04/23/19 09:40	04/24/19 20:38	4165-62-2	
2-Fluorophenol (S)	39	%	19-95		1	04/23/19 09:40	04/24/19 20:38	367-12-4	
2,4,6-Tribromophenol (S)	51	%	23-110		1	04/23/19 09:40	04/24/19 20:38	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	31.5	%	0.10	0.10	1		04/22/19 10:25		

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Project No.: 35462259

Sample: **SBC-1 (0-6)** Lab ID: **35462259008** Collected: 04/17/19 09:43 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	288	mg/kg	4.6	2.9	1	04/19/19 07:21	04/20/19 12:42		
Surrogates									
o-Terphenyl (S)	96	%	66-136		1	04/19/19 07:21	04/20/19 12:42	84-15-1	
N-Pentatriacontane (S)	107	%	42-159		1	04/19/19 07:21	04/20/19 12:42	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.8	mg/kg	0.61	0.30	1	04/23/19 02:57	04/23/19 12:06	7440-38-2	
Cadmium	0.30	mg/kg	0.061	0.030	1	04/23/19 02:57	04/23/19 12:06	7440-43-9	
Chromium	12.3	mg/kg	0.30	0.15	1	04/23/19 02:57	04/23/19 12:06	7440-47-3	
Lead	26.5	mg/kg	0.61	0.30	1	04/23/19 02:57	04/23/19 12:06	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.042	0.013	1	04/19/19 07:54	04/20/19 22:23	83-32-9	
Acenaphthylene	0.27	mg/kg	0.039	0.012	1	04/19/19 07:54	04/20/19 22:23	208-96-8	
Anthracene	0.30	mg/kg	0.042	0.014	1	04/19/19 07:54	04/20/19 22:23	120-12-7	
Benzo(a)anthracene	1.1	mg/kg	0.039	0.011	1	04/19/19 07:54	04/20/19 22:23	56-55-3	
Benzo(a)pyrene	0.96	mg/kg	0.039	0.0097	1	04/19/19 07:54	04/20/19 22:23	50-32-8	
Benzo(b)fluoranthene	1.7	mg/kg	0.039	0.010	1	04/19/19 07:54	04/20/19 22:23	205-99-2	
Benzo(g,h,i)perylene	0.43	mg/kg	0.039	0.0098	1	04/19/19 07:54	04/20/19 22:23	191-24-2	
Benzo(k)fluoranthene	0.67	mg/kg	0.039	0.010	1	04/19/19 07:54	04/20/19 22:23	207-08-9	
Chrysene	1.2	mg/kg	0.039	0.012	1	04/19/19 07:54	04/20/19 22:23	218-01-9	
Dibenz(a,h)anthracene	0.14	mg/kg	0.039	0.0090	1	04/19/19 07:54	04/20/19 22:23	53-70-3	
Fluoranthene	1.3	mg/kg	0.039	0.013	1	04/19/19 07:54	04/20/19 22:23	206-44-0	
Fluorene	0.022 I	mg/kg	0.043	0.014	1	04/19/19 07:54	04/20/19 22:23	86-73-7	
Indeno(1,2,3-cd)pyrene	0.43	mg/kg	0.039	0.0089	1	04/19/19 07:54	04/20/19 22:23	193-39-5	
1-Methylnaphthalene	0.057	mg/kg	0.046	0.015	1	04/19/19 07:54	04/20/19 22:23	90-12-0	
2-Methylnaphthalene	0.071	mg/kg	0.045	0.015	1	04/19/19 07:54	04/20/19 22:23	91-57-6	
Naphthalene	0.064	mg/kg	0.040	0.013	1	04/19/19 07:54	04/20/19 22:23	91-20-3	
Phenanthrene	0.31	mg/kg	0.039	0.013	1	04/19/19 07:54	04/20/19 22:23	85-01-8	
Pyrene	1.3	mg/kg	0.039	0.012	1	04/19/19 07:54	04/20/19 22:23	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	57	%	24-98		1	04/19/19 07:54	04/20/19 22:23	4165-60-0	
2-Fluorobiphenyl (S)	60	%	29-101		1	04/19/19 07:54	04/20/19 22:23	321-60-8	
p-Terphenyl-d14 (S)	66	%	29-112		1	04/19/19 07:54	04/20/19 22:23	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	14.0	%	0.10	0.10	1		04/22/19 10:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse-Revised Report

Project No.: 35462259

Sample: **SBC-1 (6-2)** Lab ID: **35462259009** Collected: 04/17/19 09:43 Received: 04/17/19 15:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	177	mg/kg	4.4	2.8	1	04/19/19 07:21	04/20/19 12:58		
Surrogates									
o-Terphenyl (S)	97	%	66-136		1	04/19/19 07:21	04/20/19 12:58	84-15-1	
N-Pentatriacontane (S)	98	%	42-159		1	04/19/19 07:21	04/20/19 12:58	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	41.5	mg/kg	0.56	0.28	1	04/23/19 02:57	04/23/19 12:22	7440-38-2	
Cadmium	0.46	mg/kg	0.056	0.028	1	04/23/19 02:57	04/23/19 12:22	7440-43-9	
Chromium	21.0	mg/kg	2.8	1.4	10	04/23/19 02:57	04/23/19 17:54	7440-47-3	
Lead	160	mg/kg	5.6	2.8	10	04/23/19 02:57	04/23/19 17:54	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.040	0.013	1	04/19/19 07:54	04/20/19 22:48	83-32-9	
Acenaphthylene	0.012 U	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 22:48	208-96-8	
Anthracene	0.026 I	mg/kg	0.040	0.013	1	04/19/19 07:54	04/20/19 22:48	120-12-7	
Benzo(a)anthracene	0.28	mg/kg	0.037	0.011	1	04/19/19 07:54	04/20/19 22:48	56-55-3	
Benzo(a)pyrene	0.31	mg/kg	0.037	0.0092	1	04/19/19 07:54	04/20/19 22:48	50-32-8	
Benzo(b)fluoranthene	0.54	mg/kg	0.037	0.0099	1	04/19/19 07:54	04/20/19 22:48	205-99-2	
Benzo(g,h,i)perylene	0.19	mg/kg	0.037	0.0093	1	04/19/19 07:54	04/20/19 22:48	191-24-2	
Benzo(k)fluoranthene	0.19	mg/kg	0.037	0.0099	1	04/19/19 07:54	04/20/19 22:48	207-08-9	
Chrysene	0.40	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 22:48	218-01-9	
Dibenz(a,h)anthracene	0.044	mg/kg	0.037	0.0086	1	04/19/19 07:54	04/20/19 22:48	53-70-3	
Fluoranthene	0.53	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 22:48	206-44-0	
Fluorene	0.013 U	mg/kg	0.041	0.013	1	04/19/19 07:54	04/20/19 22:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.16	mg/kg	0.037	0.0085	1	04/19/19 07:54	04/20/19 22:48	193-39-5	
1-Methylnaphthalene	0.015 U	mg/kg	0.044	0.015	1	04/19/19 07:54	04/20/19 22:48	90-12-0	
2-Methylnaphthalene	0.014 U	mg/kg	0.043	0.014	1	04/19/19 07:54	04/20/19 22:48	91-57-6	
Naphthalene	0.013 U	mg/kg	0.038	0.013	1	04/19/19 07:54	04/20/19 22:48	91-20-3	
Phenanthrene	0.15	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 22:48	85-01-8	
Pyrene	0.49	mg/kg	0.037	0.012	1	04/19/19 07:54	04/20/19 22:48	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	54	%	24-98		1	04/19/19 07:54	04/20/19 22:48	4165-60-0	
2-Fluorobiphenyl (S)	59	%	29-101		1	04/19/19 07:54	04/20/19 22:48	321-60-8	
p-Terphenyl-d14 (S)	67	%	29-112		1	04/19/19 07:54	04/20/19 22:48	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	9.3	%	0.10	0.10	1		04/22/19 10:26		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

QC Batch: 532923 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

METHOD BLANK: 2887194 Matrix: Solid
Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.30 U	0.61	0.30	04/23/19 10:54	
Cadmium	mg/kg	0.030 U	0.061	0.030	04/23/19 10:54	
Chromium	mg/kg	0.15 U	0.30	0.15	04/23/19 10:54	
Lead	mg/kg	0.30 U	0.61	0.30	04/23/19 10:54	

LABORATORY CONTROL SAMPLE: 2887195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	15	13.8	92	80-120	
Cadmium	mg/kg	1.5	1.4	96	80-120	
Chromium	mg/kg	15	15.6	104	80-120	
Lead	mg/kg	15	14.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2887196 2887197

Parameter	Units	35459829008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/kg	1.9	15.7	14.5	18.3	15.5	104	95	75-125	16	20	
Cadmium	mg/kg	0.094	1.5	1.4	1.4	1.3	83	82	75-125	9	20	
Chromium	mg/kg	8.3	15.7	14.5	24.5	21.3	103	90	75-125	14	20	
Lead	mg/kg	4.2	15.7	14.5	17.6	15.8	85	80	75-125	11	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

QC Batch: 532989 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid Full List MSSV Microwave
Associated Lab Samples: 35462259003, 35462259004, 35462259007

METHOD BLANK: 2887481 Matrix: Solid

Associated Lab Samples: 35462259003, 35462259004, 35462259007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	0.040 U	0.34	0.040	04/24/19 18:02	
2,4,5-Trichlorophenol	mg/kg	0.0067 U	0.17	0.0067	04/24/19 18:02	
2,4,6-Trichlorophenol	mg/kg	0.0092 U	0.17	0.0092	04/24/19 18:02	
2,4-Dichlorophenol	mg/kg	0.0075 U	0.17	0.0075	04/24/19 18:02	
2,4-Dimethylphenol	mg/kg	0.0077 U	0.17	0.0077	04/24/19 18:02	
2,4-Dinitrophenol	mg/kg	0.10 U	0.67	0.10	04/24/19 18:02	
2,6-Dichlorophenol	mg/kg	0.0058 U	0.17	0.0058	04/24/19 18:02	N2
2-Chlorophenol	mg/kg	0.0073 U	0.17	0.0073	04/24/19 18:02	
2-Methylphenol(o-Cresol)	mg/kg	0.0082 U	0.17	0.0082	04/24/19 18:02	
2-Nitrophenol	mg/kg	0.054 U	0.17	0.054	04/24/19 18:02	
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0077 U	0.17	0.0077	04/24/19 18:02	
4,6-Dinitro-2-methylphenol	mg/kg	0.11 U	0.67	0.11	04/24/19 18:02	
4-Chloro-3-methylphenol	mg/kg	0.0068 U	0.67	0.0068	04/24/19 18:02	
4-Nitrophenol	mg/kg	0.073 U	0.22	0.073	04/24/19 18:02	
Pentachlorophenol	mg/kg	0.087 U	0.67	0.087	04/24/19 18:02	
Phenol	mg/kg	0.0096 U	0.17	0.0096	04/24/19 18:02	
2,4,6-Tribromophenol (S)	%	80	23-110		04/24/19 18:02	
2-Fluorobiphenyl (S)	%	78	29-101		04/24/19 18:02	
2-Fluorophenol (S)	%	72	19-95		04/24/19 18:02	
Nitrobenzene-d5 (S)	%	72	24-98		04/24/19 18:02	
p-Terphenyl-d14 (S)	%	93	29-112		04/24/19 18:02	
Phenol-d5 (S)	%	73	10-104		04/24/19 18:02	

LABORATORY CONTROL SAMPLE: 2887482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	1.7	1.3	78	59-117	
2,4,5-Trichlorophenol	mg/kg	1.7	1.2	72	51-99	
2,4,6-Trichlorophenol	mg/kg	1.7	1.2	73	51-98	
2,4-Dichlorophenol	mg/kg	1.7	1.2	70	50-96	
2,4-Dimethylphenol	mg/kg	1.7	1.1	67	49-96	
2,4-Dinitrophenol	mg/kg	1.7	0.99	59	10-126	
2,6-Dichlorophenol	mg/kg	1.7	1.2	70		N2
2-Chlorophenol	mg/kg	1.7	1.1	66	48-92	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.1	67	49-93	
2-Nitrophenol	mg/kg	1.7	1.2	69	51-100	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.1	67	49-94	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.2	72	32-123	
4-Chloro-3-methylphenol	mg/kg	1.7	1.2	71	51-99	
4-Nitrophenol	mg/kg	1.7	1.2	73	50-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

LABORATORY CONTROL SAMPLE: 2887482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	mg/kg	1.7	1.3	80	39-115	
Phenol	mg/kg	1.7	1.1	66	46-94	
2,4,6-Tribromophenol (S)	%			78	23-110	
2-Fluorobiphenyl (S)	%			71	29-101	
2-Fluorophenol (S)	%			62	19-95	
Nitrobenzene-d5 (S)	%			67	24-98	
p-Terphenyl-d14 (S)	%			85	29-112	
Phenol-d5 (S)	%			63	10-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2887496 2887497

Parameter	Units	35462259003		MSD		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
2,3,4,6-Tetrachlorophenol	mg/kg	0.30 U	12.5	12.5	3.2	4.0	26	32	59-117	24	40	J(M1)		
2,4,5-Trichlorophenol	mg/kg	0.049 U	12.5	12.5	5.4	6.2	45	50	51-99	13	40	J(M1)		
2,4,6-Trichlorophenol	mg/kg	0.068 U	12.5	12.5	5.2	6.2	43	50	51-98	17	40	J(M1)		
2,4-Dichlorophenol	mg/kg	0.056 U	12.5	12.5	6.1	7.1	50	57	50-96	15	40			
2,4-Dimethylphenol	mg/kg	0.057 U	12.5	12.5	6.2	7.0	51	56	49-96	11	40			
2,4-Dinitrophenol	mg/kg	0.76 U	12.5	12.5	0.75 U	0.76 U	4	0	10-126		40	J(M1)		
2,6-Dichlorophenol	mg/kg	0.043 U	12.5	12.5	5.9	6.6	48	53		12		N2		
2-Chlorophenol	mg/kg	0.054 U	12.5	12.5	6.2	6.8	51	55	48-92	9	40			
2-Methylphenol(o-Cresol)	mg/kg	0.060 U	12.5	12.5	6.2	6.7	50	53	49-93	8	40			
2-Nitrophenol	mg/kg	0.40 U	12.5	12.5	6.1	5.8	50	47	51-100	5	40	J(M1)		
3&4-Methylphenol(m&p Cresol)	mg/kg	0.059 I	12.5	12.5	6.1	6.6	49	52	49-94	8	40			
4,6-Dinitro-2-methylphenol	mg/kg	0.81 U	12.5	12.5	0.82 I	0.82 U	7	5	32-123		40	J(M1)		
4-Chloro-3-methylphenol	mg/kg	0.050 U	12.5	12.5	5.8	6.7	48	54	51-99	13	40	J(M1)		
4-Nitrophenol	mg/kg	0.54 U	12.5	12.5	2.1	2.7	18	22	50-115	22	40	J(M1)		
Pentachlorophenol	mg/kg	0.64 U	12.5	12.5	1.8 I	2.4 I	15	20	39-115		40	J(M1)		
Phenol	mg/kg	0.16 I	12.5	12.5	5.8	6.5	46	51	46-94	11	40			
2,4,6-Tribromophenol (S)	%						34	37	23-110					
2-Fluorobiphenyl (S)	%						55	58	29-101					
2-Fluorophenol (S)	%						43	46	19-95					
Nitrobenzene-d5 (S)	%						53	56	24-98					
p-Terphenyl-d14 (S)	%						48	54	29-112					
Phenol-d5 (S)	%						43	46	10-104					

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

QC Batch: 534019 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid Full List MSSV Microwave
Associated Lab Samples: 35462259003

METHOD BLANK: 2893000 Matrix: Solid
Associated Lab Samples: 35462259003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	0.041 U	0.34	0.041	04/26/19 14:47	
2,4,5-Trichlorophenol	mg/kg	0.0067 U	0.17	0.0067	04/26/19 14:47	
2,4,6-Trichlorophenol	mg/kg	0.0092 U	0.17	0.0092	04/26/19 14:47	
2,4-Dichlorophenol	mg/kg	0.0076 U	0.17	0.0076	04/26/19 14:47	
2,4-Dimethylphenol	mg/kg	0.0077 U	0.17	0.0077	04/26/19 14:47	
2,4-Dinitrophenol	mg/kg	0.10 U	0.67	0.10	04/26/19 14:47	
2,6-Dichlorophenol	mg/kg	0.0058 U	0.17	0.0058	04/26/19 14:47	N2
2-Chlorophenol	mg/kg	0.0073 U	0.17	0.0073	04/26/19 14:47	
2-Methylphenol(o-Cresol)	mg/kg	0.0082 U	0.17	0.0082	04/26/19 14:47	
2-Nitrophenol	mg/kg	0.054 U	0.17	0.054	04/26/19 14:47	
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0078 U	0.17	0.0078	04/26/19 14:47	
4,6-Dinitro-2-methylphenol	mg/kg	0.11 U	0.67	0.11	04/26/19 14:47	
4-Chloro-3-methylphenol	mg/kg	0.0068 U	0.67	0.0068	04/26/19 14:47	
4-Nitrophenol	mg/kg	0.073 U	0.22	0.073	04/26/19 14:47	
Pentachlorophenol	mg/kg	0.087 U	0.67	0.087	04/26/19 14:47	
Phenol	mg/kg	0.0096 U	0.17	0.0096	04/26/19 14:47	
2,4,6-Tribromophenol (S)	%	73	23-110		04/26/19 14:47	
2-Fluorobiphenyl (S)	%	70	29-101		04/26/19 14:47	
2-Fluorophenol (S)	%	64	19-95		04/26/19 14:47	
Nitrobenzene-d5 (S)	%	69	24-98		04/26/19 14:47	
p-Terphenyl-d14 (S)	%	90	29-112		04/26/19 14:47	
Phenol-d5 (S)	%	68	10-104		04/26/19 14:47	

LABORATORY CONTROL SAMPLE: 2893001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	1.7	1.1	66	59-117	
2,4,5-Trichlorophenol	mg/kg	1.7	1.0	60	51-99	
2,4,6-Trichlorophenol	mg/kg	1.7	0.99	59	51-98	
2,4-Dichlorophenol	mg/kg	1.7	1.0	60	50-96	
2,4-Dimethylphenol	mg/kg	1.7	0.97	58	49-96	
2,4-Dinitrophenol	mg/kg	1.7	0.99	59	10-126	
2,6-Dichlorophenol	mg/kg	1.7	1.1	67		N2
2-Chlorophenol	mg/kg	1.7	0.99	59	48-92	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.0	59	49-93	
2-Nitrophenol	mg/kg	1.7	1.1	64	51-100	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.0	60	49-94	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.1	67	32-123	
4-Chloro-3-methylphenol	mg/kg	1.7	1.0	62	51-99	
4-Nitrophenol	mg/kg	1.7	1.2	71	50-115	

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

LABORATORY CONTROL SAMPLE: 2893001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	mg/kg	1.7	1.1	66	39-115	
Phenol	mg/kg	1.7	1.0	60	46-94	
2,4,6-Tribromophenol (S)	%			79	23-110	
2-Fluorobiphenyl (S)	%			64	29-101	
2-Fluorophenol (S)	%			63	19-95	
Nitrobenzene-d5 (S)	%			67	24-98	
p-Terphenyl-d14 (S)	%			86	29-112	
Phenol-d5 (S)	%			65	10-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2893144 2893145

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35464001005 Result	Spike Conc.	Spike Conc.	Result							
2,3,4,6-Tetrachlorophenol	mg/kg	0.051 U	2.1	2.1	1.2	1.2	59	56	59-117	5	40	
2,4,5-Trichlorophenol	mg/kg	0.0084 U	2.1	2.1	1.2	1.1	58	53	51-99	8	40	
2,4,6-Trichlorophenol	mg/kg	0.012 U	2.1	2.1	1.2	1.1	60	53	51-98	11	40	
2,4-Dichlorophenol	mg/kg	0.0095 U	2.1	2.1	1.3	1.1	61	55	50-96	10	40	
2,4-Dimethylphenol	mg/kg	0.0097 U	2.1	2.1	1.2	1.1	59	52	49-96	12	40	
2,4-Dinitrophenol	mg/kg	0.13 U	2.1	2.1	0.80 I	0.76 I	38	36	10-126		40	
2,6-Dichlorophenol	mg/kg	0.0073 U	2.1	2.1	1.5	1.3	71	63		11	N2	
2-Chlorophenol	mg/kg	0.0092 U	2.1	2.1	1.2	1.1	60	54	48-92	10	40	
2-Methylphenol(o-Cresol)	mg/kg	0.010 U	2.1	2.1	1.2	1.1	60	53	49-93	12	40	
2-Nitrophenol	mg/kg	0.068 U	2.1	2.1	1.4	1.3	67	61	51-100	9	40	
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0097 U	2.1	2.1	1.3	1.1	61	54	49-94	13	40	
4,6-Dinitro-2-methylphenol	mg/kg	0.14 U	2.1	2.1	1.3	1.2	63	59	32-123	6	40	
4-Chloro-3-methylphenol	mg/kg	0.0085 U	2.1	2.1	1.3	1.1	63	54	51-99	14	40	
4-Nitrophenol	mg/kg	0.091 U	2.1	2.1	1.2	1.3	60	60	50-115	1	40	
Pentachlorophenol	mg/kg	0.11 U	2.1	2.1	1.3	1.2	62	58	39-115	6	40	
Phenol	mg/kg	0.012 U	2.1	2.1	1.2	1.1	58	51	46-94	11	40	
2,4,6-Tribromophenol (S)	%						77	70	23-110			
2-Fluorobiphenyl (S)	%						65	61	29-101			
2-Fluorophenol (S)	%						61	56	19-95			
Nitrobenzene-d5 (S)	%						70	64	24-98			
p-Terphenyl-d14 (S)	%						88	73	29-112			
Phenol-d5 (S)	%						64	57	10-104			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

QC Batch: 532225 Analysis Method: EPA 8270
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
 Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

METHOD BLANK: 2883304 Matrix: Solid
 Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.040	0.013	04/20/19 18:15	
2-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	04/20/19 18:15	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	04/20/19 18:15	
Acenaphthylene	mg/kg	0.011 U	0.034	0.011	04/20/19 18:15	
Anthracene	mg/kg	0.012 U	0.036	0.012	04/20/19 18:15	
Benzo(a)anthracene	mg/kg	0.0096 U	0.034	0.0096	04/20/19 18:15	
Benzo(a)pyrene	mg/kg	0.0083 U	0.034	0.0083	04/20/19 18:15	
Benzo(b)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/20/19 18:15	
Benzo(g,h,i)perylene	mg/kg	0.0084 U	0.034	0.0084	04/20/19 18:15	
Benzo(k)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/20/19 18:15	
Chrysene	mg/kg	0.011 U	0.034	0.011	04/20/19 18:15	
Dibenz(a,h)anthracene	mg/kg	0.0077 U	0.034	0.0077	04/20/19 18:15	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	04/20/19 18:15	
Fluorene	mg/kg	0.012 U	0.037	0.012	04/20/19 18:15	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	0.034	0.0077	04/20/19 18:15	
Naphthalene	mg/kg	0.012 U	0.035	0.012	04/20/19 18:15	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	04/20/19 18:15	
Pyrene	mg/kg	0.011 U	0.034	0.011	04/20/19 18:15	
2-Fluorobiphenyl (S)	%	55	29-101		04/20/19 18:15	
Nitrobenzene-d5 (S)	%	58	24-98		04/20/19 18:15	
p-Terphenyl-d14 (S)	%	68	29-112		04/20/19 18:15	

LABORATORY CONTROL SAMPLE: 2883305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	1.1	63	38-115	
2-Methylnaphthalene	mg/kg	1.7	0.99	60	37-115	
Acenaphthene	mg/kg	1.7	1.0	60	30-127	
Acenaphthylene	mg/kg	1.7	1.1	66	29-129	
Anthracene	mg/kg	1.7	1.1	66	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.2	74	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.1	69	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.1	65	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.2	73	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.1	68	39-133	
Chrysene	mg/kg	1.7	1.3	79	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.2	70	37-127	
Fluoranthene	mg/kg	1.7	1.2	70	39-130	
Fluorene	mg/kg	1.7	1.1	63	35-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.2	74	35-133	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

LABORATORY CONTROL SAMPLE: 2883305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	1.7	1.0	61	36-115	
Phenanthrene	mg/kg	1.7	1.1	67	35-128	
Pyrene	mg/kg	1.7	1.2	74	37-132	
2-Fluorobiphenyl (S)	%			55	29-101	
Nitrobenzene-d5 (S)	%			56	24-98	
p-Terphenyl-d14 (S)	%			66	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2883328 2883329

Parameter	Units	35461918001		2883328		2883329		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1-Methylnaphthalene	mg/kg	0.014 U	1.8	1.8	1.1	0.97	65	56	38-115	14	40			
2-Methylnaphthalene	mg/kg	0.013 U	1.8	1.8	1.1	0.92	63	53	37-115	16	40			
Acenaphthene	mg/kg	0.012 U	1.8	1.8	1.1	0.91	64	53	30-127	18	40			
Acenaphthylene	mg/kg	0.011 U	1.8	1.8	1.2	1.0	70	58	29-129	18	40			
Anthracene	mg/kg	0.012 U	1.8	1.8	1.3	1.0	74	60	37-126	21	40			
Benzo(a)anthracene	mg/kg	0.0098 U	1.8	1.8	1.5	1.2	85	69	37-130	21	40			
Benzo(a)pyrene	mg/kg	0.0085 U	1.8	1.8	1.3	1.1	75	63	39-128	18	40			
Benzo(b)fluoranthene	mg/kg	0.0092 U	1.8	1.8	1.2	1.0	71	61	38-128	16	40			
Benzo(g,h,i)perylene	mg/kg	0.0086 U	1.8	1.8	1.4	1.2	82	68	34-136	19	40			
Benzo(k)fluoranthene	mg/kg	0.0092 U	1.8	1.8	1.3	1.0	77	61	39-133	23	40			
Chrysene	mg/kg	0.011 U	1.8	1.8	1.5	1.2	86	72	39-125	18	40			
Dibenz(a,h)anthracene	mg/kg	0.0079 U	1.8	1.8	1.3	1.1	78	65	37-127	18	40			
Fluoranthene	mg/kg	0.011 U	1.8	1.8	1.4	1.1	80	64	39-130	22	40			
Fluorene	mg/kg	0.012 U	1.8	1.8	1.2	0.97	69	57	35-125	19	40			
Indeno(1,2,3-cd)pyrene	mg/kg	0.0079 U	1.8	1.8	1.4	1.1	81	67	35-133	19	40			
Naphthalene	mg/kg	0.012 U	1.8	1.8	1.1	0.90	63	53	36-115	18	40			
Phenanthrene	mg/kg	0.011 U	1.8	1.8	1.3	1.1	75	62	35-128	20	40			
Pyrene	mg/kg	0.011 U	1.8	1.8	1.4	1.2	82	67	37-132	20	40			
2-Fluorobiphenyl (S)	%						57	48	29-101					
Nitrobenzene-d5 (S)	%						57	49	24-98					
p-Terphenyl-d14 (S)	%						72	60	29-112					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report

Pace Project No.: 35462259

QC Batch: 532226

Analysis Method: FL-PRO

QC Batch Method: EPA 3546

Analysis Description: FL-PRO Soil

Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

METHOD BLANK: 2883308

Matrix: Solid

Associated Lab Samples: 35462259001, 35462259002, 35462259005, 35462259006, 35462259008, 35462259009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5 U	4.0	2.5	04/19/19 14:02	
N-Pentatriacontane (S)	%	120	42-159		04/19/19 14:02	
o-Terphenyl (S)	%	117	66-136		04/19/19 14:02	

LABORATORY CONTROL SAMPLE: 2883309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	196	169	86	65-119	
N-Pentatriacontane (S)	%			124	42-159	
o-Terphenyl (S)	%			108	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2883330 2883331

Parameter	Units	35461918002		2883330		2883331		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Petroleum Range Organics	mg/kg	7300	214	213	8180	8510	414	568	39-181	4	25 D4,M6
N-Pentatriacontane (S)	%						123	115	42-159		
o-Terphenyl (S)	%						98	103	66-136		

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QUALITY CONTROL DATA

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

QC Batch: 532735 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35462259001, 35462259002, 35462259003, 35462259004, 35462259005, 35462259006, 35462259007, 35462259008, 35462259009

SAMPLE DUPLICATE: 2886120

Parameter	Units	35461135007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	9.9	13	10	J(D6)

SAMPLE DUPLICATE: 2886121

Parameter	Units	35461863015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.1	17.1	11	10	J(D6)

SAMPLE DUPLICATE: 2886122

Parameter	Units	35462132003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	21.7	5	10	

SAMPLE DUPLICATE: 2886123

Parameter	Units	35462259002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	7.3	10	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4 Sample was diluted due to the presence of high levels of target analytes.
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse-Revised Report
Pace Project No.: 35462259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35462259001	SBC-3 (0-6)	EPA 3546	532226	FL-PRO	532384
35462259002	SBC-3 (6-2)	EPA 3546	532226	FL-PRO	532384
35462259005	SBC-5 (0-6)	EPA 3546	532226	FL-PRO	532384
35462259006	SBC-5 (6-2)	EPA 3546	532226	FL-PRO	532384
35462259008	SBC-1 (0-6)	EPA 3546	532226	FL-PRO	532384
35462259009	SBC-1 (6-2)	EPA 3546	532226	FL-PRO	532384
35462259001	SBC-3 (0-6)	EPA 3050	532923	EPA 6010	532947
35462259002	SBC-3 (6-2)	EPA 3050	532923	EPA 6010	532947
35462259005	SBC-5 (0-6)	EPA 3050	532923	EPA 6010	532947
35462259006	SBC-5 (6-2)	EPA 3050	532923	EPA 6010	532947
35462259008	SBC-1 (0-6)	EPA 3050	532923	EPA 6010	532947
35462259009	SBC-1 (6-2)	EPA 3050	532923	EPA 6010	532947
35462259003	SBC-3 (6-2)	EPA 3546	532989	EPA 8270	533520
35462259003	SBC-3 (6-2)	EPA 3546	534019	EPA 8270	534270
35462259004	SBC-4 (6-2)	EPA 3546	532989	EPA 8270	533520
35462259007	SBC-5 (0-6)	EPA 3546	532989	EPA 8270	533520
35462259001	SBC-3 (0-6)	EPA 3546	532225	EPA 8270	532378
35462259002	SBC-3 (6-2)	EPA 3546	532225	EPA 8270	532378
35462259005	SBC-5 (0-6)	EPA 3546	532225	EPA 8270	532378
35462259006	SBC-5 (6-2)	EPA 3546	532225	EPA 8270	532378
35462259008	SBC-1 (0-6)	EPA 3546	532225	EPA 8270	532378
35462259009	SBC-1 (6-2)	EPA 3546	532225	EPA 8270	532378
35462259001	SBC-3 (0-6)	ASTM D2974-87	532735		
35462259002	SBC-3 (6-2)	ASTM D2974-87	532735		
35462259003	SBC-3 (6-2)	ASTM D2974-87	532735		
35462259004	SBC-4 (6-2)	ASTM D2974-87	532735		
35462259005	SBC-5 (0-6)	ASTM D2974-87	532735		
35462259006	SBC-5 (6-2)	ASTM D2974-87	532735		
35462259007	SBC-5 (0-6)	ASTM D2974-87	532735		
35462259008	SBC-1 (0-6)	ASTM D2974-87	532735		
35462259009	SBC-1 (6-2)	ASTM D2974-87	532735		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project WO# : 35462259
 Project Manage PM: **CTR** Due Date: **04/23/19**
 Client: **36-SMASC**

Date and Initials of person:
 Examining contents: _____
 Label: _____
 Deliver: _____
 pH: _____
 Initials: *JA*

Thermometer Used: T-337 Date: 4-18-19 Time: 0301

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C <u>4.6</u> (Visual) <u>70-1</u> (Correction Factor) <u>4.7</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority

Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No Ice: (Wet) Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>updated see p.2 for discrepancy</i>
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Sample #

35462259

Discrepancy

1 COC = SBC-4 (0"-6") S = 4/16/19 @ 11:15 has

* Client label = SBC-3 (0-6") 4/16/19 @ 11:5

2 COC = SBC-4 (6"-2") S = 4/16/19 @ 11:15

* Client label = SBC-4 (6"-2") 4/16/19 @ 11:30


3 COC = SBC-3 (6"-2") S = 4/16/19 @ 11:30

* Client label = SBC-3 (6"-2") S = 4/16/19 @ 11:15

4 COC = SBC-~~4~~4 (6"-2") S = 4/16/19 @ 9:50

* Client label SBC-3 (6"-2") 4/16/19 @ 11:30

APPENDIX 1E

	Document Name	Document Revised
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No F-FL-C-007 rev 13	Issuing Authority Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client: SMART Se.

Date and Initials of person: 04/17/19
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used T-330 Date 04/17/19 Time _____ Initials [Signature]

State of Origin FL For WW projects, all containers verified to ≤6 °C

- | | |
|--|--|
| Cooler #1 Temp. °C <u>4.1</u> (Visual) <u>+0.6</u> (Correction Factor) <u>4.1</u> (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |
| Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) | <input type="checkbox"/> Samples on ice, cooling process has begun |

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

- Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other PLASTIC BAGS

Samples shorted to lab (If Yes, complete) Shorted Date _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions VOA, Coliform, TCC, O&G Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review _____ Date: _____

April 29, 2019

Meike de Vringer
Smart-Sciences
330 SW 27th Avenue
Suite 504
Miami, FL 33135

RE: Project: Future Courthouse
Pace Project No.: 35462926

Dear Meike Vringer:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Gisele Colbert, Smart-Sciences
Anthony Larenas, Arcadis
Patrick O'Connell, Arcadis
Andrea Orozco, Smart-Sciences
Stephanie Pilar, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Future Courthouse
Pace Project No.: 35462926

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Future Courthouse
Pace Project No.: 35462926

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35462926001	SBC-2 (0-6")	Solid	04/17/19 10:57	04/18/19 18:15
35462926002	SBC-2 (6"-2')	Solid	04/17/19 10:57	04/18/19 18:15
35462926003	SBC-7 (0-6")	Solid	04/17/19 12:07	04/18/19 18:15
35462926004	SBC-7 (6"-2')	Solid	04/17/19 12:07	04/18/19 18:15
35462926005	SBC-6 (0-6")	Solid	04/17/19 13:20	04/18/19 18:15
35462926006	SBC-6 (6"-2')	Solid	04/17/19 13:20	04/18/19 18:15
35462926007	SBC-11 (0-6")	Solid	04/17/19 14:02	04/18/19 18:15
35462926008	SBC-11 (6"-2')	Solid	04/17/19 14:02	04/18/19 18:15
35462926009	SBC-12 (0-6")	Solid	04/17/19 15:02	04/18/19 18:15
35462926010	SBC-12 (6"-2')	Solid	04/17/19 15:02	04/18/19 18:15
35462926011	SBC-12 (0-6")	Solid	04/17/19 15:08	04/18/19 18:15
35462926012	SBC-7 (0-6")	Solid	04/17/19 12:10	04/18/19 18:15
35462926013	SBC-6 (0-6")	Solid	04/17/19 13:28	04/18/19 18:15
35462926014	SBC-7 (6"-2')	Solid	04/17/19 12:12	04/18/19 18:15
35462926015	SBC-11 (0-6")	Solid	04/17/19 14:05	04/18/19 18:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse
Pace Project No.: 35462926

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35462926001	SBC-2 (0-6")	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926002	SBC-2 (6"-2')	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP, SC1	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926003	SBC-7 (0-6")	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	TWB	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926004	SBC-7 (6"-2')	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926005	SBC-6 (0-6")	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926006	SBC-6 (6"-2')	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926007	SBC-11 (0-6")	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926008	SBC-11 (6"-2')	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926009	SBC-12 (0-6")	FL-PRO	BP2	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926010	SBC-12 (6"-2')	FL-PRO	BP2	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse

Pace Project No.: 35462926

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JWP, SC1	4	PASI-O
		EPA 8270	MMG	21	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926011	SBC-12 (0-6")	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926012	SBC-7 (0-6")	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926013	SBC-6 (0-6")	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926014	SBC-7 (6"-2')	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O
35462926015	SBC-11 (0-6")	EPA 8270	TWB	22	PASI-O
		ASTM D2974-87	CLT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35462926

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462926001	SBC-2 (0-6")					
FL-PRO	Petroleum Range Organics	578	mg/kg	20.5	04/25/19 05:39	D4
EPA 6010	Arsenic	5.9	mg/kg	0.53	04/25/19 17:51	
EPA 6010	Cadmium	0.11	mg/kg	0.053	04/25/19 17:51	
EPA 6010	Chromium	5.2	mg/kg	0.26	04/25/19 17:51	
EPA 6010	Lead	23.6	mg/kg	0.53	04/25/19 17:51	
EPA 8270	Anthracene	0.14 l	mg/kg	0.18	04/24/19 21:31	D3
EPA 8270	Benzo(a)anthracene	0.65	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Benzo(a)pyrene	0.61	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Benzo(b)fluoranthene	1.0	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Benzo(g,h,i)perylene	0.31	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Benzo(k)fluoranthene	0.45	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Chrysene	0.86	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Dibenz(a,h)anthracene	0.088 l	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Fluoranthene	2.0	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	0.31	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Phenanthrene	1.2	mg/kg	0.17	04/24/19 21:31	D3
EPA 8270	Pyrene	1.7	mg/kg	0.17	04/24/19 21:31	D3
ASTM D2974-87	Percent Moisture	3.7	%	0.10	04/24/19 15:57	
35462926002	SBC-2 (6"-2')					
EPA 6010	Arsenic	89.8	mg/kg	0.54	04/25/19 17:54	
EPA 6010	Cadmium	0.25	mg/kg	0.054	04/25/19 17:54	
EPA 6010	Chromium	6.3	mg/kg	0.27	04/25/19 17:54	
EPA 6010	Lead	143	mg/kg	2.7	04/26/19 12:15	
EPA 8270	Benzo(a)anthracene	0.13	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Benzo(a)pyrene	0.14	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Benzo(b)fluoranthene	0.29	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Benzo(g,h,i)perylene	0.083 l	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Benzo(k)fluoranthene	0.10 l	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Chrysene	0.20	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Fluoranthene	0.27	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.072 l	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Phenanthrene	0.086 l	mg/kg	0.12	04/24/19 21:56	P1
EPA 8270	Pyrene	0.26	mg/kg	0.12	04/24/19 21:56	P1
ASTM D2974-87	Percent Moisture	18.9	%	0.10	04/24/19 15:57	
35462926003	SBC-7 (0-6")					
FL-PRO	Petroleum Range Organics	52.6	mg/kg	4.6	04/25/19 09:33	
EPA 6010	Arsenic	32.4	mg/kg	0.65	04/25/19 17:57	
EPA 6010	Cadmium	0.21	mg/kg	0.065	04/25/19 17:57	
EPA 6010	Chromium	7.8	mg/kg	0.33	04/25/19 17:57	
EPA 6010	Lead	64.2	mg/kg	0.65	04/25/19 17:57	
EPA 8270	Acenaphthylene	0.092	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Anthracene	0.068	mg/kg	0.041	04/24/19 22:21	
EPA 8270	Benzo(a)anthracene	0.36	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Benzo(a)pyrene	0.46	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Benzo(b)fluoranthene	0.81	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Benzo(g,h,i)perylene	0.25	mg/kg	0.039	04/24/19 22:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35462926

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462926003	SBC-7 (0-6")					
EPA 8270	Benzo(k)fluoranthene	0.29	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Chrysene	0.47	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Dibenz(a,h)anthracene	0.066	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Fluoranthene	0.62	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.24	mg/kg	0.039	04/24/19 22:21	
EPA 8270	1-Methylnaphthalene	0.058	mg/kg	0.046	04/24/19 22:21	
EPA 8270	2-Methylnaphthalene	0.067	mg/kg	0.044	04/24/19 22:21	
EPA 8270	Naphthalene	0.060	mg/kg	0.040	04/24/19 22:21	
EPA 8270	Phenanthrene	0.18	mg/kg	0.039	04/24/19 22:21	
EPA 8270	Pyrene	0.60	mg/kg	0.039	04/24/19 22:21	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	04/24/19 15:57	
35462926004	SBC-7 (6"-2')					
FL-PRO	Petroleum Range Organics	54.8	mg/kg	4.3	04/25/19 09:49	
EPA 6010	Arsenic	106	mg/kg	0.65	04/25/19 18:05	
EPA 6010	Cadmium	0.16	mg/kg	0.065	04/25/19 18:05	
EPA 6010	Chromium	6.4	mg/kg	0.32	04/25/19 18:05	
EPA 6010	Lead	114	mg/kg	0.65	04/25/19 18:05	
EPA 8270	Acenaphthylene	0.17	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Anthracene	0.11	mg/kg	0.039	04/25/19 02:15	
EPA 8270	Benzo(a)anthracene	0.31	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Benzo(a)pyrene	0.37	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Benzo(b)fluoranthene	0.62	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Benzo(g,h,i)perylene	0.34	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Benzo(k)fluoranthene	0.24	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Chrysene	0.30	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Dibenz(a,h)anthracene	0.080	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Fluoranthene	0.40	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.28	mg/kg	0.037	04/25/19 02:15	
EPA 8270	1-Methylnaphthalene	0.25	mg/kg	0.043	04/25/19 02:15	
EPA 8270	2-Methylnaphthalene	0.31	mg/kg	0.042	04/25/19 02:15	
EPA 8270	Naphthalene	0.27	mg/kg	0.038	04/25/19 02:15	
EPA 8270	Phenanthrene	0.25	mg/kg	0.037	04/25/19 02:15	
EPA 8270	Pyrene	0.45	mg/kg	0.037	04/25/19 02:15	
ASTM D2974-87	Percent Moisture	7.7	%	0.10	04/24/19 15:57	
35462926005	SBC-6 (0-6")					
EPA 6010	Arsenic	14.1	mg/kg	0.81	04/25/19 18:08	
EPA 6010	Cadmium	0.46	mg/kg	0.081	04/25/19 18:08	
EPA 6010	Chromium	16.4	mg/kg	0.40	04/25/19 18:08	
EPA 6010	Lead	48.5	mg/kg	0.81	04/25/19 18:08	
EPA 8270	Benzo(a)anthracene	0.17	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Benzo(a)pyrene	0.17	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Benzo(b)fluoranthene	0.23	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Benzo(g,h,i)perylene	0.13	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Benzo(k)fluoranthene	0.10	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Chrysene	0.17	mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Fluoranthene	0.29	mg/kg	0.15	04/25/19 02:41	P1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35462926

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462926005	SBC-6 (0-6")					
EPA 8270	Indeno(1,2,3-cd)pyrene	0.12	l mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Phenanthrene	0.089	l mg/kg	0.15	04/25/19 02:41	P1
EPA 8270	Pyrene	0.25	mg/kg	0.15	04/25/19 02:41	P1
ASTM D2974-87	Percent Moisture	37.9	%	0.10	04/24/19 15:57	
35462926006	SBC-6 (6"-2')					
FL-PRO	Petroleum Range Organics	68.7	mg/kg	4.7	04/25/19 09:49	
EPA 6010	Arsenic	103	mg/kg	0.60	04/25/19 18:11	
EPA 6010	Cadmium	0.32	mg/kg	0.060	04/25/19 18:11	
EPA 6010	Chromium	10.6	mg/kg	0.30	04/25/19 18:11	
EPA 6010	Lead	177	mg/kg	3.0	04/26/19 12:24	
EPA 8270	Acenaphthene	0.014	l mg/kg	0.042	04/25/19 03:06	
EPA 8270	Acenaphthylene	0.17	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Anthracene	0.21	mg/kg	0.042	04/25/19 03:06	
EPA 8270	Benzo(a)anthracene	0.65	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Benzo(a)pyrene	0.69	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Benzo(b)fluoranthene	1.1	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Benzo(g,h,i)perylene	0.51	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Benzo(k)fluoranthene	0.37	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Chrysene	0.60	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Dibenz(a,h)anthracene	0.14	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Fluoranthene	0.92	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Fluorene	0.018	l mg/kg	0.043	04/25/19 03:06	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.48	mg/kg	0.039	04/25/19 03:06	
EPA 8270	1-Methylnaphthalene	0.13	mg/kg	0.046	04/25/19 03:06	
EPA 8270	2-Methylnaphthalene	0.15	mg/kg	0.045	04/25/19 03:06	
EPA 8270	Naphthalene	0.13	mg/kg	0.041	04/25/19 03:06	
EPA 8270	Phenanthrene	0.36	mg/kg	0.039	04/25/19 03:06	
EPA 8270	Pyrene	0.99	mg/kg	0.039	04/25/19 03:06	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	04/24/19 15:58	
35462926007	SBC-11 (0-6")					
FL-PRO	Petroleum Range Organics	105	mg/kg	4.6	04/25/19 10:04	
EPA 6010	Arsenic	48.4	mg/kg	0.68	04/25/19 18:14	
EPA 6010	Cadmium	0.41	mg/kg	0.068	04/25/19 18:14	
EPA 6010	Chromium	10.8	mg/kg	0.34	04/25/19 18:14	
EPA 6010	Lead	97.7	mg/kg	0.68	04/25/19 18:14	
EPA 8270	Acenaphthene	0.043	mg/kg	0.041	04/25/19 03:31	
EPA 8270	Acenaphthylene	0.092	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Anthracene	0.19	mg/kg	0.041	04/25/19 03:31	
EPA 8270	Benzo(a)anthracene	0.95	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Benzo(a)pyrene	1.0	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Benzo(b)fluoranthene	1.3	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Benzo(g,h,i)perylene	0.77	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Benzo(k)fluoranthene	0.59	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Chrysene	0.90	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Dibenz(a,h)anthracene	0.18	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Fluoranthene	1.8	mg/kg	0.039	04/25/19 03:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Future Courthouse
Pace Project No.: 35462926

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35462926007	SBC-11 (0-6")					
EPA 8270	Fluorene	0.024	l mg/kg	0.042	04/25/19 03:31	
EPA 8270	Indeno(1,2,3-cd)pyrene	0.63	mg/kg	0.039	04/25/19 03:31	
EPA 8270	1-Methylnaphthalene	0.050	mg/kg	0.046	04/25/19 03:31	
EPA 8270	2-Methylnaphthalene	0.054	mg/kg	0.044	04/25/19 03:31	
EPA 8270	Naphthalene	0.046	mg/kg	0.040	04/25/19 03:31	
EPA 8270	Phenanthrene	0.87	mg/kg	0.039	04/25/19 03:31	
EPA 8270	Pyrene	1.8	mg/kg	0.039	04/25/19 03:31	
ASTM D2974-87	Percent Moisture	12.9	%	0.10	04/24/19 15:59	
35462926008	SBC-11 (6"-2")					
FL-PRO	Petroleum Range Organics	298	mg/kg	4.5	04/25/19 14:48	
EPA 6010	Arsenic	63.7	mg/kg	0.67	04/25/19 18:17	
EPA 6010	Cadmium	0.30	mg/kg	0.067	04/25/19 18:17	
EPA 6010	Chromium	9.6	mg/kg	0.34	04/25/19 18:17	
EPA 6010	Lead	177	mg/kg	3.4	04/26/19 12:27	
EPA 8270	Acenaphthylene	0.13	l mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Anthracene	0.16	l mg/kg	0.20	04/25/19 03:56	D3
EPA 8270	Benzo(a)anthracene	0.67	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Benzo(a)pyrene	0.71	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Benzo(b)fluoranthene	0.93	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Benzo(g,h,i)perylene	0.52	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Benzo(k)fluoranthene	0.44	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Chrysene	0.60	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Dibenz(a,h)anthracene	0.13	l mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Fluoranthene	1.1	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Indeno(1,2,3-cd)pyrene	0.44	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	1-Methylnaphthalene	0.16	l mg/kg	0.22	04/25/19 03:56	D3
EPA 8270	2-Methylnaphthalene	0.18	l mg/kg	0.22	04/25/19 03:56	D3
EPA 8270	Naphthalene	0.18	l mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Phenanthrene	0.51	mg/kg	0.19	04/25/19 03:56	D3
EPA 8270	Pyrene	1.2	mg/kg	0.19	04/25/19 03:56	D3
ASTM D2974-87	Percent Moisture	10.1	%	0.10	04/24/19 15:59	
35462926009	SBC-12 (0-6")					
EPA 6010	Arsenic	68.6	mg/kg	0.76	04/25/19 16:39	
EPA 6010	Cadmium	0.29	mg/kg	0.076	04/25/19 16:39	
EPA 6010	Chromium	11.1	mg/kg	0.38	04/25/19 16:39	
EPA 6010	Lead	139	mg/kg	0.76	04/25/19 16:39	
EPA 8270	Benzo(a)anthracene	0.19	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Benzo(a)pyrene	0.20	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Benzo(b)fluoranthene	0.27	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Benzo(g,h,i)perylene	0.16	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Benzo(k)fluoranthene	0.12	l mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Chrysene	0.18	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Dibenz(a,h)anthracene	0.038	l mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Fluoranthene	0.38	mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.13	l mg/kg	0.14	04/25/19 04:21	P1
EPA 8270	Phenanthrene	0.16	mg/kg	0.14	04/25/19 04:21	P1

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35462926

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35462926009	SBC-12 (0-6")					
EPA 8270	Pyrene	0.38	mg/kg	0.14	04/25/19 04:21	P1
ASTM D2974-87	Percent Moisture	31.0	%	0.10	04/24/19 15:59	
35462926010	SBC-12 (6"-2')					
EPA 6010	Arsenic	190	mg/kg	64.5	04/26/19 10:15	
EPA 6010	Cadmium	0.52	mg/kg	0.065	04/25/19 16:42	
EPA 6010	Chromium	13.2	mg/kg	0.32	04/25/19 16:42	
EPA 6010	Lead	303	mg/kg	64.5	04/26/19 10:15	
EPA 8270	Benzo(a)anthracene	0.21	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Benzo(a)pyrene	0.22	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Benzo(b)fluoranthene	0.30	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Benzo(g,h,i)perylene	0.19	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Benzo(k)fluoranthene	0.12 l	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Chrysene	0.18	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Dibenz(a,h)anthracene	0.048 l	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Fluoranthene	0.38	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Indeno(1,2,3-cd)pyrene	0.15	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Phenanthrene	0.16	mg/kg	0.14	04/25/19 04:46	P1
EPA 8270	Pyrene	0.43	mg/kg	0.14	04/25/19 04:46	P1
ASTM D2974-87	Percent Moisture	27.9	%	0.10	04/24/19 15:59	
35462926011	SBC-12 (0-6")					
EPA 8270	3&4-Methylphenol(m&p Cresol)	0.022 l	mg/kg	0.24	04/24/19 21:29	
ASTM D2974-87	Percent Moisture	28.4	%	0.10	04/24/19 15:59	
35462926012	SBC-7 (0-6")					
ASTM D2974-87	Percent Moisture	6.5	%	0.10	04/24/19 15:59	
35462926013	SBC-6 (0-6")					
ASTM D2974-87	Percent Moisture	16.8	%	0.10	04/24/19 15:59	
35462926014	SBC-7 (6"-2')					
EPA 8270	3&4-Methylphenol(m&p Cresol)	0.058 l	mg/kg	0.26	04/24/19 22:47	
EPA 8270	Phenol	0.017 l	mg/kg	0.26	04/24/19 22:47	
ASTM D2974-87	Percent Moisture	34.8	%	0.10	04/24/19 16:00	
35462926015	SBC-11 (0-6")					
EPA 8270	3&4-Methylphenol(m&p Cresol)	0.020 l	mg/kg	0.21	04/24/19 23:13	
EPA 8270	Phenol	0.013 l	mg/kg	0.21	04/24/19 23:13	
ASTM D2974-87	Percent Moisture	19.1	%	0.10	04/24/19 16:00	

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-2 (0-6")** Lab ID: **35462926001** Collected: 04/17/19 10:57 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	578	mg/kg	20.5	13.1	5	04/23/19 23:58	04/25/19 05:39		D4
Surrogates									
o-Terphenyl (S)	86	%	66-136		5	04/23/19 23:58	04/25/19 05:39	84-15-1	
N-Pentatriacontane (S)	89	%	42-159		5	04/23/19 23:58	04/25/19 05:39	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.9	mg/kg	0.53	0.26	1	04/24/19 07:35	04/25/19 17:51	7440-38-2	
Cadmium	0.11	mg/kg	0.053	0.026	1	04/24/19 07:35	04/25/19 17:51	7440-43-9	
Chromium	5.2	mg/kg	0.26	0.13	1	04/24/19 07:35	04/25/19 17:51	7440-47-3	
Lead	23.6	mg/kg	0.53	0.26	1	04/24/19 07:35	04/25/19 17:51	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.060 U	mg/kg	0.18	0.060	5	04/23/19 23:31	04/24/19 21:31	83-32-9	D3
Acenaphthylene	0.054 U	mg/kg	0.17	0.054	5	04/23/19 23:31	04/24/19 21:31	208-96-8	D3
Anthracene	0.14 I	mg/kg	0.18	0.061	5	04/23/19 23:31	04/24/19 21:31	120-12-7	D3
Benzo(a)anthracene	0.65	mg/kg	0.17	0.050	5	04/23/19 23:31	04/24/19 21:31	56-55-3	D3
Benzo(a)pyrene	0.61	mg/kg	0.17	0.043	5	04/23/19 23:31	04/24/19 21:31	50-32-8	D3
Benzo(b)fluoranthene	1.0	mg/kg	0.17	0.046	5	04/23/19 23:31	04/24/19 21:31	205-99-2	D3
Benzo(g,h,i)perylene	0.31	mg/kg	0.17	0.044	5	04/23/19 23:31	04/24/19 21:31	191-24-2	D3
Benzo(k)fluoranthene	0.45	mg/kg	0.17	0.046	5	04/23/19 23:31	04/24/19 21:31	207-08-9	D3
Chrysene	0.86	mg/kg	0.17	0.055	5	04/23/19 23:31	04/24/19 21:31	218-01-9	D3
Dibenz(a,h)anthracene	0.088 I	mg/kg	0.17	0.040	5	04/23/19 23:31	04/24/19 21:31	53-70-3	D3
Fluoranthene	2.0	mg/kg	0.17	0.057	5	04/23/19 23:31	04/24/19 21:31	206-44-0	D3
Fluorene	0.062 U	mg/kg	0.19	0.062	5	04/23/19 23:31	04/24/19 21:31	86-73-7	D3
Indeno(1,2,3-cd)pyrene	0.31	mg/kg	0.17	0.040	5	04/23/19 23:31	04/24/19 21:31	193-39-5	D3
1-Methylnaphthalene	0.068 U	mg/kg	0.21	0.068	5	04/23/19 23:31	04/24/19 21:31	90-12-0	D3
2-Methylnaphthalene	0.066 U	mg/kg	0.20	0.066	5	04/23/19 23:31	04/24/19 21:31	91-57-6	D3
Naphthalene	0.060 U	mg/kg	0.18	0.060	5	04/23/19 23:31	04/24/19 21:31	91-20-3	D3
Phenanthrene	1.2	mg/kg	0.17	0.057	5	04/23/19 23:31	04/24/19 21:31	85-01-8	D3
Pyrene	1.7	mg/kg	0.17	0.055	5	04/23/19 23:31	04/24/19 21:31	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	46	%	24-98		5	04/23/19 23:31	04/24/19 21:31	4165-60-0	
2-Fluorobiphenyl (S)	50	%	29-101		5	04/23/19 23:31	04/24/19 21:31	321-60-8	
p-Terphenyl-d14 (S)	55	%	29-112		5	04/23/19 23:31	04/24/19 21:31	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	3.7	%	0.10	0.10	1		04/24/19 15:57		

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35462926

Sample: SBC-2 (6"-2') **Lab ID: 35462926002** Collected: 04/17/19 10:57 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	7.8 U	mg/kg	12.2	7.8	1	04/23/19 23:58	04/25/19 01:46		P1
Surrogates									
o-Terphenyl (S)	97	%	66-136		1	04/23/19 23:58	04/25/19 01:46	84-15-1	
N-Pentatriacontane (S)	98	%	42-159		1	04/23/19 23:58	04/25/19 01:46	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	89.8	mg/kg	0.54	0.27	1	04/24/19 07:35	04/25/19 17:54	7440-38-2	
Cadmium	0.25	mg/kg	0.054	0.027	1	04/24/19 07:35	04/25/19 17:54	7440-43-9	
Chromium	6.3	mg/kg	0.27	0.14	1	04/24/19 07:35	04/25/19 17:54	7440-47-3	
Lead	143	mg/kg	2.7	1.4	5	04/24/19 07:35	04/26/19 12:15	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.042 U	mg/kg	0.13	0.042	1	04/23/19 23:31	04/24/19 21:56	83-32-9	P1
Acenaphthylene	0.038 U	mg/kg	0.12	0.038	1	04/23/19 23:31	04/24/19 21:56	208-96-8	P1
Anthracene	0.043 U	mg/kg	0.13	0.043	1	04/23/19 23:31	04/24/19 21:56	120-12-7	P1
Benzo(a)anthracene	0.13	mg/kg	0.12	0.035	1	04/23/19 23:31	04/24/19 21:56	56-55-3	P1
Benzo(a)pyrene	0.14	mg/kg	0.12	0.030	1	04/23/19 23:31	04/24/19 21:56	50-32-8	P1
Benzo(b)fluoranthene	0.29	mg/kg	0.12	0.033	1	04/23/19 23:31	04/24/19 21:56	205-99-2	P1
Benzo(g,h,i)perylene	0.083 I	mg/kg	0.12	0.031	1	04/23/19 23:31	04/24/19 21:56	191-24-2	P1
Benzo(k)fluoranthene	0.10 I	mg/kg	0.12	0.033	1	04/23/19 23:31	04/24/19 21:56	207-08-9	P1
Chrysene	0.20	mg/kg	0.12	0.039	1	04/23/19 23:31	04/24/19 21:56	218-01-9	P1
Dibenz(a,h)anthracene	0.028 U	mg/kg	0.12	0.028	1	04/23/19 23:31	04/24/19 21:56	53-70-3	P1
Fluoranthene	0.27	mg/kg	0.12	0.040	1	04/23/19 23:31	04/24/19 21:56	206-44-0	P1
Fluorene	0.044 U	mg/kg	0.13	0.044	1	04/23/19 23:31	04/24/19 21:56	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.072 I	mg/kg	0.12	0.028	1	04/23/19 23:31	04/24/19 21:56	193-39-5	P1
1-Methylnaphthalene	0.048 U	mg/kg	0.14	0.048	1	04/23/19 23:31	04/24/19 21:56	90-12-0	P1
2-Methylnaphthalene	0.046 U	mg/kg	0.14	0.046	1	04/23/19 23:31	04/24/19 21:56	91-57-6	P1
Naphthalene	0.042 U	mg/kg	0.13	0.042	1	04/23/19 23:31	04/24/19 21:56	91-20-3	P1
Phenanthrene	0.086 I	mg/kg	0.12	0.040	1	04/23/19 23:31	04/24/19 21:56	85-01-8	P1
Pyrene	0.26	mg/kg	0.12	0.039	1	04/23/19 23:31	04/24/19 21:56	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	71	%	24-98		1	04/23/19 23:31	04/24/19 21:56	4165-60-0	
2-Fluorobiphenyl (S)	79	%	29-101		1	04/23/19 23:31	04/24/19 21:56	321-60-8	
p-Terphenyl-d14 (S)	80	%	29-112		1	04/23/19 23:31	04/24/19 21:56	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.9	%	0.10	0.10	1		04/24/19 15:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-7 (0-6")** Lab ID: **35462926003** Collected: 04/17/19 12:07 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	52.6	mg/kg	4.6	2.9	1	04/24/19 03:32	04/25/19 09:33		
Surrogates									
o-Terphenyl (S)	93	%	66-136		1	04/24/19 03:32	04/25/19 09:33	84-15-1	
N-Pentatriacontane (S)	92	%	42-159		1	04/24/19 03:32	04/25/19 09:33	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	32.4	mg/kg	0.65	0.33	1	04/24/19 07:35	04/25/19 17:57	7440-38-2	
Cadmium	0.21	mg/kg	0.065	0.033	1	04/24/19 07:35	04/25/19 17:57	7440-43-9	
Chromium	7.8	mg/kg	0.33	0.16	1	04/24/19 07:35	04/25/19 17:57	7440-47-3	
Lead	64.2	mg/kg	0.65	0.33	1	04/24/19 07:35	04/25/19 17:57	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.041	0.013	1	04/23/19 23:31	04/24/19 22:21	83-32-9	
Acenaphthylene	0.092	mg/kg	0.039	0.012	1	04/23/19 23:31	04/24/19 22:21	208-96-8	
Anthracene	0.068	mg/kg	0.041	0.014	1	04/23/19 23:31	04/24/19 22:21	120-12-7	
Benzo(a)anthracene	0.36	mg/kg	0.039	0.011	1	04/23/19 23:31	04/24/19 22:21	56-55-3	
Benzo(a)pyrene	0.46	mg/kg	0.039	0.0096	1	04/23/19 23:31	04/24/19 22:21	50-32-8	
Benzo(b)fluoranthene	0.81	mg/kg	0.039	0.010	1	04/23/19 23:31	04/24/19 22:21	205-99-2	
Benzo(g,h,i)perylene	0.25	mg/kg	0.039	0.0097	1	04/23/19 23:31	04/24/19 22:21	191-24-2	
Benzo(k)fluoranthene	0.29	mg/kg	0.039	0.010	1	04/23/19 23:31	04/24/19 22:21	207-08-9	
Chrysene	0.47	mg/kg	0.039	0.012	1	04/23/19 23:31	04/24/19 22:21	218-01-9	
Dibenz(a,h)anthracene	0.066	mg/kg	0.039	0.0089	1	04/23/19 23:31	04/24/19 22:21	53-70-3	
Fluoranthene	0.62	mg/kg	0.039	0.013	1	04/23/19 23:31	04/24/19 22:21	206-44-0	
Fluorene	0.014 U	mg/kg	0.042	0.014	1	04/23/19 23:31	04/24/19 22:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.24	mg/kg	0.039	0.0088	1	04/23/19 23:31	04/24/19 22:21	193-39-5	
1-Methylnaphthalene	0.058	mg/kg	0.046	0.015	1	04/23/19 23:31	04/24/19 22:21	90-12-0	
2-Methylnaphthalene	0.067	mg/kg	0.044	0.015	1	04/23/19 23:31	04/24/19 22:21	91-57-6	
Naphthalene	0.060	mg/kg	0.040	0.013	1	04/23/19 23:31	04/24/19 22:21	91-20-3	
Phenanthrene	0.18	mg/kg	0.039	0.013	1	04/23/19 23:31	04/24/19 22:21	85-01-8	
Pyrene	0.60	mg/kg	0.039	0.012	1	04/23/19 23:31	04/24/19 22:21	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	54	%	24-98		1	04/23/19 23:31	04/24/19 22:21	4165-60-0	
2-Fluorobiphenyl (S)	63	%	29-101		1	04/23/19 23:31	04/24/19 22:21	321-60-8	
p-Terphenyl-d14 (S)	74	%	29-112		1	04/23/19 23:31	04/24/19 22:21	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.0	%	0.10	0.10	1		04/24/19 15:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-7 (6"-2') Lab ID: 35462926004 Collected: 04/17/19 12:07 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	54.8	mg/kg	4.3	2.7	1	04/24/19 03:32	04/25/19 09:49		
Surrogates									
o-Terphenyl (S)	96	%	66-136		1	04/24/19 03:32	04/25/19 09:49	84-15-1	
N-Pentatriacontane (S)	106	%	42-159		1	04/24/19 03:32	04/25/19 09:49	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	106	mg/kg	0.65	0.32	1	04/24/19 07:35	04/25/19 18:05	7440-38-2	
Cadmium	0.16	mg/kg	0.065	0.032	1	04/24/19 07:35	04/25/19 18:05	7440-43-9	
Chromium	6.4	mg/kg	0.32	0.16	1	04/24/19 07:35	04/25/19 18:05	7440-47-3	
Lead	114	mg/kg	0.65	0.32	1	04/24/19 07:35	04/25/19 18:05	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.013 U	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 02:15	83-32-9	
Acenaphthylene	0.17	mg/kg	0.037	0.011	1	04/24/19 06:20	04/25/19 02:15	208-96-8	
Anthracene	0.11	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 02:15	120-12-7	
Benzo(a)anthracene	0.31	mg/kg	0.037	0.010	1	04/24/19 06:20	04/25/19 02:15	56-55-3	
Benzo(a)pyrene	0.37	mg/kg	0.037	0.0091	1	04/24/19 06:20	04/25/19 02:15	50-32-8	
Benzo(b)fluoranthene	0.62	mg/kg	0.037	0.0098	1	04/24/19 06:20	04/25/19 02:15	205-99-2	
Benzo(g,h,i)perylene	0.34	mg/kg	0.037	0.0092	1	04/24/19 06:20	04/25/19 02:15	191-24-2	
Benzo(k)fluoranthene	0.24	mg/kg	0.037	0.0098	1	04/24/19 06:20	04/25/19 02:15	207-08-9	
Chrysene	0.30	mg/kg	0.037	0.012	1	04/24/19 06:20	04/25/19 02:15	218-01-9	
Dibenz(a,h)anthracene	0.080	mg/kg	0.037	0.0084	1	04/24/19 06:20	04/25/19 02:15	53-70-3	
Fluoranthene	0.40	mg/kg	0.037	0.012	1	04/24/19 06:20	04/25/19 02:15	206-44-0	
Fluorene	0.013 U	mg/kg	0.040	0.013	1	04/24/19 06:20	04/25/19 02:15	86-73-7	
Indeno(1,2,3-cd)pyrene	0.28	mg/kg	0.037	0.0084	1	04/24/19 06:20	04/25/19 02:15	193-39-5	
1-Methylnaphthalene	0.25	mg/kg	0.043	0.014	1	04/24/19 06:20	04/25/19 02:15	90-12-0	
2-Methylnaphthalene	0.31	mg/kg	0.042	0.014	1	04/24/19 06:20	04/25/19 02:15	91-57-6	
Naphthalene	0.27	mg/kg	0.038	0.013	1	04/24/19 06:20	04/25/19 02:15	91-20-3	
Phenanthrene	0.25	mg/kg	0.037	0.012	1	04/24/19 06:20	04/25/19 02:15	85-01-8	
Pyrene	0.45	mg/kg	0.037	0.012	1	04/24/19 06:20	04/25/19 02:15	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	68	%	24-98		1	04/24/19 06:20	04/25/19 02:15	4165-60-0	
2-Fluorobiphenyl (S)	75	%	29-101		1	04/24/19 06:20	04/25/19 02:15	321-60-8	
p-Terphenyl-d14 (S)	75	%	29-112		1	04/24/19 06:20	04/25/19 02:15	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.7	%	0.10	0.10	1		04/24/19 15:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-6 (0-6")** Lab ID: **35462926005** Collected: 04/17/19 13:20 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	10.0 U	mg/kg	15.8	10.0	1	04/24/19 03:32	04/24/19 23:25		P1
Surrogates									
o-Terphenyl (S)	93	%	66-136		1	04/24/19 03:32	04/24/19 23:25	84-15-1	
N-Pentatriacontane (S)	95	%	42-159		1	04/24/19 03:32	04/24/19 23:25	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	14.1	mg/kg	0.81	0.40	1	04/24/19 07:35	04/25/19 18:08	7440-38-2	
Cadmium	0.46	mg/kg	0.081	0.040	1	04/24/19 07:35	04/25/19 18:08	7440-43-9	
Chromium	16.4	mg/kg	0.40	0.20	1	04/24/19 07:35	04/25/19 18:08	7440-47-3	
Lead	48.5	mg/kg	0.81	0.40	1	04/24/19 07:35	04/25/19 18:08	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.051 U	mg/kg	0.16	0.051	1	04/24/19 06:20	04/25/19 02:41	83-32-9	P1
Acenaphthylene	0.047 U	mg/kg	0.15	0.047	1	04/24/19 06:20	04/25/19 02:41	208-96-8	P1
Anthracene	0.053 U	mg/kg	0.16	0.053	1	04/24/19 06:20	04/25/19 02:41	120-12-7	P1
Benzo(a)anthracene	0.17	mg/kg	0.15	0.043	1	04/24/19 06:20	04/25/19 02:41	56-55-3	P1
Benzo(a)pyrene	0.17	mg/kg	0.15	0.037	1	04/24/19 06:20	04/25/19 02:41	50-32-8	P1
Benzo(b)fluoranthene	0.23	mg/kg	0.15	0.040	1	04/24/19 06:20	04/25/19 02:41	205-99-2	P1
Benzo(g,h,i)perylene	0.13 I	mg/kg	0.15	0.037	1	04/24/19 06:20	04/25/19 02:41	191-24-2	P1
Benzo(k)fluoranthene	0.10 I	mg/kg	0.15	0.040	1	04/24/19 06:20	04/25/19 02:41	207-08-9	P1
Chrysene	0.17	mg/kg	0.15	0.047	1	04/24/19 06:20	04/25/19 02:41	218-01-9	P1
Dibenz(a,h)anthracene	0.034 U	mg/kg	0.15	0.034	1	04/24/19 06:20	04/25/19 02:41	53-70-3	P1
Fluoranthene	0.29	mg/kg	0.15	0.049	1	04/24/19 06:20	04/25/19 02:41	206-44-0	P1
Fluorene	0.053 U	mg/kg	0.16	0.053	1	04/24/19 06:20	04/25/19 02:41	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.12 I	mg/kg	0.15	0.034	1	04/24/19 06:20	04/25/19 02:41	193-39-5	P1
1-Methylnaphthalene	0.058 U	mg/kg	0.18	0.058	1	04/24/19 06:20	04/25/19 02:41	90-12-0	P1
2-Methylnaphthalene	0.057 U	mg/kg	0.17	0.057	1	04/24/19 06:20	04/25/19 02:41	91-57-6	P1
Naphthalene	0.051 U	mg/kg	0.15	0.051	1	04/24/19 06:20	04/25/19 02:41	91-20-3	P1
Phenanthrene	0.089 I	mg/kg	0.15	0.049	1	04/24/19 06:20	04/25/19 02:41	85-01-8	P1
Pyrene	0.25	mg/kg	0.15	0.047	1	04/24/19 06:20	04/25/19 02:41	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	76	%	24-98		1	04/24/19 06:20	04/25/19 02:41	4165-60-0	
2-Fluorobiphenyl (S)	82	%	29-101		1	04/24/19 06:20	04/25/19 02:41	321-60-8	
p-Terphenyl-d14 (S)	88	%	29-112		1	04/24/19 06:20	04/25/19 02:41	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	37.9	%	0.10	0.10	1		04/24/19 15:57		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-6 (6"-2') Lab ID: 35462926006 Collected: 04/17/19 13:20 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	68.7	mg/kg	4.7	3.0	1	04/24/19 03:32	04/25/19 09:49		
Surrogates									
o-Terphenyl (S)	93	%	66-136		1	04/24/19 03:32	04/25/19 09:49	84-15-1	
N-Pentatriacontane (S)	91	%	42-159		1	04/24/19 03:32	04/25/19 09:49	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	103	mg/kg	0.60	0.30	1	04/24/19 07:35	04/25/19 18:11	7440-38-2	
Cadmium	0.32	mg/kg	0.060	0.030	1	04/24/19 07:35	04/25/19 18:11	7440-43-9	
Chromium	10.6	mg/kg	0.30	0.15	1	04/24/19 07:35	04/25/19 18:11	7440-47-3	
Lead	177	mg/kg	3.0	1.5	5	04/24/19 07:35	04/26/19 12:24	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.014 I	mg/kg	0.042	0.014	1	04/24/19 06:20	04/25/19 03:06	83-32-9	
Acenaphthylene	0.17	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:06	208-96-8	
Anthracene	0.21	mg/kg	0.042	0.014	1	04/24/19 06:20	04/25/19 03:06	120-12-7	
Benzo(a)anthracene	0.65	mg/kg	0.039	0.011	1	04/24/19 06:20	04/25/19 03:06	56-55-3	
Benzo(a)pyrene	0.69	mg/kg	0.039	0.0097	1	04/24/19 06:20	04/25/19 03:06	50-32-8	
Benzo(b)fluoranthene	1.1	mg/kg	0.039	0.010	1	04/24/19 06:20	04/25/19 03:06	205-99-2	
Benzo(g,h,i)perylene	0.51	mg/kg	0.039	0.0099	1	04/24/19 06:20	04/25/19 03:06	191-24-2	
Benzo(k)fluoranthene	0.37	mg/kg	0.039	0.010	1	04/24/19 06:20	04/25/19 03:06	207-08-9	
Chrysene	0.60	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:06	218-01-9	
Dibenz(a,h)anthracene	0.14	mg/kg	0.039	0.0090	1	04/24/19 06:20	04/25/19 03:06	53-70-3	
Fluoranthene	0.92	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 03:06	206-44-0	
Fluorene	0.018 I	mg/kg	0.043	0.014	1	04/24/19 06:20	04/25/19 03:06	86-73-7	
Indeno(1,2,3-cd)pyrene	0.48	mg/kg	0.039	0.0090	1	04/24/19 06:20	04/25/19 03:06	193-39-5	
1-Methylnaphthalene	0.13	mg/kg	0.046	0.015	1	04/24/19 06:20	04/25/19 03:06	90-12-0	
2-Methylnaphthalene	0.15	mg/kg	0.045	0.015	1	04/24/19 06:20	04/25/19 03:06	91-57-6	
Naphthalene	0.13	mg/kg	0.041	0.013	1	04/24/19 06:20	04/25/19 03:06	91-20-3	
Phenanthrene	0.36	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 03:06	85-01-8	
Pyrene	0.99	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:06	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	74	%	24-98		1	04/24/19 06:20	04/25/19 03:06	4165-60-0	
2-Fluorobiphenyl (S)	81	%	29-101		1	04/24/19 06:20	04/25/19 03:06	321-60-8	
p-Terphenyl-d14 (S)	83	%	29-112		1	04/24/19 06:20	04/25/19 03:06	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.3	%	0.10	0.10	1		04/24/19 15:58		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-11 (0-6")** Lab ID: **35462926007** Collected: 04/17/19 14:02 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	105	mg/kg	4.6	2.9	1	04/24/19 03:32	04/25/19 10:04		
Surrogates									
o-Terphenyl (S)	86	%	66-136		1	04/24/19 03:32	04/25/19 10:04	84-15-1	
N-Pentatriacontane (S)	90	%	42-159		1	04/24/19 03:32	04/25/19 10:04	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	48.4	mg/kg	0.68	0.34	1	04/24/19 07:35	04/25/19 18:14	7440-38-2	
Cadmium	0.41	mg/kg	0.068	0.034	1	04/24/19 07:35	04/25/19 18:14	7440-43-9	
Chromium	10.8	mg/kg	0.34	0.17	1	04/24/19 07:35	04/25/19 18:14	7440-47-3	
Lead	97.7	mg/kg	0.68	0.34	1	04/24/19 07:35	04/25/19 18:14	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.043	mg/kg	0.041	0.013	1	04/24/19 06:20	04/25/19 03:31	83-32-9	
Acenaphthylene	0.092	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:31	208-96-8	
Anthracene	0.19	mg/kg	0.041	0.014	1	04/24/19 06:20	04/25/19 03:31	120-12-7	
Benzo(a)anthracene	0.95	mg/kg	0.039	0.011	1	04/24/19 06:20	04/25/19 03:31	56-55-3	
Benzo(a)pyrene	1.0	mg/kg	0.039	0.0096	1	04/24/19 06:20	04/25/19 03:31	50-32-8	
Benzo(b)fluoranthene	1.3	mg/kg	0.039	0.010	1	04/24/19 06:20	04/25/19 03:31	205-99-2	
Benzo(g,h,i)perylene	0.77	mg/kg	0.039	0.0097	1	04/24/19 06:20	04/25/19 03:31	191-24-2	
Benzo(k)fluoranthene	0.59	mg/kg	0.039	0.010	1	04/24/19 06:20	04/25/19 03:31	207-08-9	
Chrysene	0.90	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:31	218-01-9	
Dibenz(a,h)anthracene	0.18	mg/kg	0.039	0.0089	1	04/24/19 06:20	04/25/19 03:31	53-70-3	
Fluoranthene	1.8	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 03:31	206-44-0	
Fluorene	0.024	mg/kg	0.042	0.014	1	04/24/19 06:20	04/25/19 03:31	86-73-7	
Indeno(1,2,3-cd)pyrene	0.63	mg/kg	0.039	0.0088	1	04/24/19 06:20	04/25/19 03:31	193-39-5	
1-Methylnaphthalene	0.050	mg/kg	0.046	0.015	1	04/24/19 06:20	04/25/19 03:31	90-12-0	
2-Methylnaphthalene	0.054	mg/kg	0.044	0.015	1	04/24/19 06:20	04/25/19 03:31	91-57-6	
Naphthalene	0.046	mg/kg	0.040	0.013	1	04/24/19 06:20	04/25/19 03:31	91-20-3	
Phenanthrene	0.87	mg/kg	0.039	0.013	1	04/24/19 06:20	04/25/19 03:31	85-01-8	
Pyrene	1.8	mg/kg	0.039	0.012	1	04/24/19 06:20	04/25/19 03:31	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	67	%	24-98		1	04/24/19 06:20	04/25/19 03:31	4165-60-0	
2-Fluorobiphenyl (S)	74	%	29-101		1	04/24/19 06:20	04/25/19 03:31	321-60-8	
p-Terphenyl-d14 (S)	78	%	29-112		1	04/24/19 06:20	04/25/19 03:31	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.9	%	0.10	0.10	1		04/24/19 15:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35462926

Sample: **SBC-11 (6"-2')** Lab ID: **35462926008** Collected: 04/17/19 14:02 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	298	mg/kg	4.5	2.8	1	04/24/19 03:32	04/25/19 14:48		
Surrogates									
o-Terphenyl (S)	94	%	66-136		1	04/24/19 03:32	04/25/19 14:48	84-15-1	
N-Pentatriacontane (S)	95	%	42-159		1	04/24/19 03:32	04/25/19 14:48	630-07-09	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	63.7	mg/kg	0.67	0.34	1	04/24/19 07:35	04/25/19 18:17	7440-38-2	
Cadmium	0.30	mg/kg	0.067	0.034	1	04/24/19 07:35	04/25/19 18:17	7440-43-9	
Chromium	9.6	mg/kg	0.34	0.17	1	04/24/19 07:35	04/25/19 18:17	7440-47-3	
Lead	177	mg/kg	3.4	1.7	5	04/24/19 07:35	04/26/19 12:27	7439-92-1	
8270 MSSV Short List Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.065 U	mg/kg	0.20	0.065	5	04/24/19 06:20	04/25/19 03:56	83-32-9	D3
Acenaphthylene	0.13 I	mg/kg	0.19	0.058	5	04/24/19 06:20	04/25/19 03:56	208-96-8	D3
Anthracene	0.16 I	mg/kg	0.20	0.066	5	04/24/19 06:20	04/25/19 03:56	120-12-7	D3
Benzo(a)anthracene	0.67	mg/kg	0.19	0.053	5	04/24/19 06:20	04/25/19 03:56	56-55-3	D3
Benzo(a)pyrene	0.71	mg/kg	0.19	0.046	5	04/24/19 06:20	04/25/19 03:56	50-32-8	D3
Benzo(b)fluoranthene	0.93	mg/kg	0.19	0.050	5	04/24/19 06:20	04/25/19 03:56	205-99-2	D3
Benzo(g,h,i)perylene	0.52	mg/kg	0.19	0.047	5	04/24/19 06:20	04/25/19 03:56	191-24-2	D3
Benzo(k)fluoranthene	0.44	mg/kg	0.19	0.050	5	04/24/19 06:20	04/25/19 03:56	207-08-9	D3
Chrysene	0.60	mg/kg	0.19	0.059	5	04/24/19 06:20	04/25/19 03:56	218-01-9	D3
Dibenz(a,h)anthracene	0.13 I	mg/kg	0.19	0.043	5	04/24/19 06:20	04/25/19 03:56	53-70-3	D3
Fluoranthene	1.1	mg/kg	0.19	0.061	5	04/24/19 06:20	04/25/19 03:56	206-44-0	D3
Fluorene	0.067 U	mg/kg	0.20	0.067	5	04/24/19 06:20	04/25/19 03:56	86-73-7	D3
Indeno(1,2,3-cd)pyrene	0.44	mg/kg	0.19	0.043	5	04/24/19 06:20	04/25/19 03:56	193-39-5	D3
1-Methylnaphthalene	0.16 I	mg/kg	0.22	0.073	5	04/24/19 06:20	04/25/19 03:56	90-12-0	D3
2-Methylnaphthalene	0.18 I	mg/kg	0.22	0.071	5	04/24/19 06:20	04/25/19 03:56	91-57-6	D3
Naphthalene	0.18 I	mg/kg	0.19	0.064	5	04/24/19 06:20	04/25/19 03:56	91-20-3	D3
Phenanthrene	0.51	mg/kg	0.19	0.061	5	04/24/19 06:20	04/25/19 03:56	85-01-8	D3
Pyrene	1.2	mg/kg	0.19	0.059	5	04/24/19 06:20	04/25/19 03:56	129-00-0	D3
Surrogates									
Nitrobenzene-d5 (S)	53	%	24-98		5	04/24/19 06:20	04/25/19 03:56	4165-60-0	
2-Fluorobiphenyl (S)	57	%	29-101		5	04/24/19 06:20	04/25/19 03:56	321-60-8	
p-Terphenyl-d14 (S)	57	%	29-112		5	04/24/19 06:20	04/25/19 03:56	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.1	%	0.10	0.10	1		04/24/19 15:59		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-12 (0-6") Lab ID: 35462926009 Collected: 04/17/19 15:02 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	8.9 U	mg/kg	14.0	8.9	1	04/24/19 03:32	04/24/19 23:41		P1
Surrogates									
o-Terphenyl (S)	82	%	66-136		1	04/24/19 03:32	04/24/19 23:41	84-15-1	
N-Pentatriacontane (S)	82	%	42-159		1	04/24/19 03:32	04/24/19 23:41	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	68.6	mg/kg	0.76	0.38	1	04/24/19 16:44	04/25/19 16:39	7440-38-2	
Cadmium	0.29	mg/kg	0.076	0.038	1	04/24/19 16:44	04/25/19 16:39	7440-43-9	
Chromium	11.1	mg/kg	0.38	0.19	1	04/24/19 16:44	04/25/19 16:39	7440-47-3	
Lead	139	mg/kg	0.76	0.38	1	04/24/19 16:44	04/25/19 16:39	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.048 U	mg/kg	0.15	0.048	1	04/24/19 06:20	04/25/19 04:21	83-32-9	P1
Acenaphthylene	0.043 U	mg/kg	0.14	0.043	1	04/24/19 06:20	04/25/19 04:21	208-96-8	P1
Anthracene	0.049 U	mg/kg	0.15	0.049	1	04/24/19 06:20	04/25/19 04:21	120-12-7	P1
Benzo(a)anthracene	0.19	mg/kg	0.14	0.040	1	04/24/19 06:20	04/25/19 04:21	56-55-3	P1
Benzo(a)pyrene	0.20	mg/kg	0.14	0.034	1	04/24/19 06:20	04/25/19 04:21	50-32-8	P1
Benzo(b)fluoranthene	0.27	mg/kg	0.14	0.037	1	04/24/19 06:20	04/25/19 04:21	205-99-2	P1
Benzo(g,h,i)perylene	0.16	mg/kg	0.14	0.035	1	04/24/19 06:20	04/25/19 04:21	191-24-2	P1
Benzo(k)fluoranthene	0.12 I	mg/kg	0.14	0.037	1	04/24/19 06:20	04/25/19 04:21	207-08-9	P1
Chrysene	0.18	mg/kg	0.14	0.044	1	04/24/19 06:20	04/25/19 04:21	218-01-9	P1
Dibenz(a,h)anthracene	0.038 I	mg/kg	0.14	0.032	1	04/24/19 06:20	04/25/19 04:21	53-70-3	P1
Fluoranthene	0.38	mg/kg	0.14	0.045	1	04/24/19 06:20	04/25/19 04:21	206-44-0	P1
Fluorene	0.050 U	mg/kg	0.15	0.050	1	04/24/19 06:20	04/25/19 04:21	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.13 I	mg/kg	0.14	0.032	1	04/24/19 06:20	04/25/19 04:21	193-39-5	P1
1-Methylnaphthalene	0.054 U	mg/kg	0.16	0.054	1	04/24/19 06:20	04/25/19 04:21	90-12-0	P1
2-Methylnaphthalene	0.053 U	mg/kg	0.16	0.053	1	04/24/19 06:20	04/25/19 04:21	91-57-6	P1
Naphthalene	0.048 U	mg/kg	0.14	0.048	1	04/24/19 06:20	04/25/19 04:21	91-20-3	P1
Phenanthrene	0.16	mg/kg	0.14	0.046	1	04/24/19 06:20	04/25/19 04:21	85-01-8	P1
Pyrene	0.38	mg/kg	0.14	0.044	1	04/24/19 06:20	04/25/19 04:21	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	76	%	24-98		1	04/24/19 06:20	04/25/19 04:21	4165-60-0	
2-Fluorobiphenyl (S)	81	%	29-101		1	04/24/19 06:20	04/25/19 04:21	321-60-8	
p-Terphenyl-d14 (S)	87	%	29-112		1	04/24/19 06:20	04/25/19 04:21	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	31.0	%	0.10	0.10	1		04/24/19 15:59		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-12 (6"-2') Lab ID: 35462926010 Collected: 04/17/19 15:02 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Soil Microwave									
Analytical Method: FL-PRO Preparation Method: EPA 3546									
Petroleum Range Organics	8.3 U	mg/kg	13.0	8.3	1	04/24/19 03:32	04/24/19 23:41		P1
Surrogates									
o-Terphenyl (S)	95	%	66-136		1	04/24/19 03:32	04/24/19 23:41	84-15-1	
N-Pentatriacontane (S)	101	%	42-159		1	04/24/19 03:32	04/24/19 23:41	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	190	mg/kg	64.5	32.3	100	04/24/19 16:44	04/26/19 10:15	7440-38-2	
Cadmium	0.52	mg/kg	0.065	0.032	1	04/24/19 16:44	04/25/19 16:42	7440-43-9	
Chromium	13.2	mg/kg	0.32	0.16	1	04/24/19 16:44	04/25/19 16:42	7440-47-3	
Lead	303	mg/kg	64.5	32.3	100	04/24/19 16:44	04/26/19 10:15	7439-92-1	
8270 MSSV Short List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	0.047 U	mg/kg	0.15	0.047	1	04/24/19 06:20	04/25/19 04:46	83-32-9	P1
Acenaphthylene	0.043 U	mg/kg	0.14	0.043	1	04/24/19 06:20	04/25/19 04:46	208-96-8	P1
Anthracene	0.049 U	mg/kg	0.15	0.049	1	04/24/19 06:20	04/25/19 04:46	120-12-7	P1
Benzo(a)anthracene	0.21	mg/kg	0.14	0.039	1	04/24/19 06:20	04/25/19 04:46	56-55-3	P1
Benzo(a)pyrene	0.22	mg/kg	0.14	0.034	1	04/24/19 06:20	04/25/19 04:46	50-32-8	P1
Benzo(b)fluoranthene	0.30	mg/kg	0.14	0.037	1	04/24/19 06:20	04/25/19 04:46	205-99-2	P1
Benzo(g,h,i)perylene	0.19	mg/kg	0.14	0.034	1	04/24/19 06:20	04/25/19 04:46	191-24-2	P1
Benzo(k)fluoranthene	0.12 I	mg/kg	0.14	0.037	1	04/24/19 06:20	04/25/19 04:46	207-08-9	P1
Chrysene	0.18	mg/kg	0.14	0.043	1	04/24/19 06:20	04/25/19 04:46	218-01-9	P1
Dibenz(a,h)anthracene	0.048 I	mg/kg	0.14	0.032	1	04/24/19 06:20	04/25/19 04:46	53-70-3	P1
Fluoranthene	0.38	mg/kg	0.14	0.045	1	04/24/19 06:20	04/25/19 04:46	206-44-0	P1
Fluorene	0.049 U	mg/kg	0.15	0.049	1	04/24/19 06:20	04/25/19 04:46	86-73-7	P1
Indeno(1,2,3-cd)pyrene	0.15	mg/kg	0.14	0.031	1	04/24/19 06:20	04/25/19 04:46	193-39-5	P1
1-Methylnaphthalene	0.054 U	mg/kg	0.16	0.054	1	04/24/19 06:20	04/25/19 04:46	90-12-0	P1
2-Methylnaphthalene	0.052 U	mg/kg	0.16	0.052	1	04/24/19 06:20	04/25/19 04:46	91-57-6	P1
Naphthalene	0.047 U	mg/kg	0.14	0.047	1	04/24/19 06:20	04/25/19 04:46	91-20-3	P1
Phenanthrene	0.16	mg/kg	0.14	0.045	1	04/24/19 06:20	04/25/19 04:46	85-01-8	P1
Pyrene	0.43	mg/kg	0.14	0.043	1	04/24/19 06:20	04/25/19 04:46	129-00-0	P1
Surrogates									
Nitrobenzene-d5 (S)	75	%	24-98		1	04/24/19 06:20	04/25/19 04:46	4165-60-0	
2-Fluorobiphenyl (S)	81	%	29-101		1	04/24/19 06:20	04/25/19 04:46	321-60-8	
p-Terphenyl-d14 (S)	94	%	29-112		1	04/24/19 06:20	04/25/19 04:46	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	27.9	%	0.10	0.10	1		04/24/19 15:59		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-12 (0-6")** Lab ID: **35462926011** Collected: 04/17/19 15:08 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.056 U	mg/kg	0.48	0.056	1	04/23/19 09:40	04/24/19 21:29	58-90-2	
2,4,5-Trichlorophenol	0.0094 U	mg/kg	0.24	0.0094	1	04/23/19 09:40	04/24/19 21:29	95-95-4	
2,4,6-Trichlorophenol	0.013 U	mg/kg	0.24	0.013	1	04/23/19 09:40	04/24/19 21:29	88-06-2	
2,4-Dichlorophenol	0.011 U	mg/kg	0.24	0.011	1	04/23/19 09:40	04/24/19 21:29	120-83-2	
2,4-Dimethylphenol	0.011 U	mg/kg	0.24	0.011	1	04/23/19 09:40	04/24/19 21:29	105-67-9	
2,4-Dinitrophenol	0.14 U	mg/kg	0.94	0.14	1	04/23/19 09:40	04/24/19 21:29	51-28-5	
2,6-Dichlorophenol	0.0081 U	mg/kg	0.24	0.0081	1	04/23/19 09:40	04/24/19 21:29	87-65-0	N2
2-Chlorophenol	0.010 U	mg/kg	0.24	0.010	1	04/23/19 09:40	04/24/19 21:29	95-57-8	
2-Methylphenol(o-Cresol)	0.011 U	mg/kg	0.24	0.011	1	04/23/19 09:40	04/24/19 21:29	95-48-7	
2-Nitrophenol	0.075 U	mg/kg	0.24	0.075	1	04/23/19 09:40	04/24/19 21:29	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.022 I	mg/kg	0.24	0.011	1	04/23/19 09:40	04/24/19 21:29		
4,6-Dinitro-2-methylphenol	0.15 U	mg/kg	0.94	0.15	1	04/23/19 09:40	04/24/19 21:29	534-52-1	
4-Chloro-3-methylphenol	0.0095 U	mg/kg	0.94	0.0095	1	04/23/19 09:40	04/24/19 21:29	59-50-7	
4-Nitrophenol	0.10 U	mg/kg	0.31	0.10	1	04/23/19 09:40	04/24/19 21:29	100-02-7	
Pentachlorophenol	0.12 U	mg/kg	0.94	0.12	1	04/23/19 09:40	04/24/19 21:29	87-86-5	
Phenol	0.013 U	mg/kg	0.24	0.013	1	04/23/19 09:40	04/24/19 21:29	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	12	%	24-98		1	04/23/19 09:40	04/24/19 21:29	4165-60-0	J(S0), J(S5)
2-Fluorobiphenyl (S)	25	%	29-101		1	04/23/19 09:40	04/24/19 21:29	321-60-8	J(S0), J(S5)
p-Terphenyl-d14 (S)	38	%	29-112		1	04/23/19 09:40	04/24/19 21:29	1718-51-0	
Phenol-d5 (S)	27	%	10-104		1	04/23/19 09:40	04/24/19 21:29	4165-62-2	
2-Fluorophenol (S)	25	%	19-95		1	04/23/19 09:40	04/24/19 21:29	367-12-4	
2,4,6-Tribromophenol (S)	32	%	23-110		1	04/23/19 09:40	04/24/19 21:29	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	28.4	%	0.10	0.10	1		04/24/19 15:59		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: **SBC-7 (0-6")** Lab ID: **35462926012** Collected: 04/17/19 12:10 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave		Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,3,4,6-Tetrachlorophenol	0.043 U	mg/kg	0.36	0.043	1	04/23/19 09:40	04/24/19 21:55	58-90-2	
2,4,5-Trichlorophenol	0.0072 U	mg/kg	0.18	0.0072	1	04/23/19 09:40	04/24/19 21:55	95-95-4	
2,4,6-Trichlorophenol	0.0099 U	mg/kg	0.18	0.0099	1	04/23/19 09:40	04/24/19 21:55	88-06-2	
2,4-Dichlorophenol	0.0081 U	mg/kg	0.18	0.0081	1	04/23/19 09:40	04/24/19 21:55	120-83-2	
2,4-Dimethylphenol	0.0082 U	mg/kg	0.18	0.0082	1	04/23/19 09:40	04/24/19 21:55	105-67-9	
2,4-Dinitrophenol	0.11 U	mg/kg	0.72	0.11	1	04/23/19 09:40	04/24/19 21:55	51-28-5	
2,6-Dichlorophenol	0.0062 U	mg/kg	0.18	0.0062	1	04/23/19 09:40	04/24/19 21:55	87-65-0	N2
2-Chlorophenol	0.0078 U	mg/kg	0.18	0.0078	1	04/23/19 09:40	04/24/19 21:55	95-57-8	
2-Methylphenol(o-Cresol)	0.0087 U	mg/kg	0.18	0.0087	1	04/23/19 09:40	04/24/19 21:55	95-48-7	
2-Nitrophenol	0.058 U	mg/kg	0.18	0.058	1	04/23/19 09:40	04/24/19 21:55	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.0083 U	mg/kg	0.18	0.0083	1	04/23/19 09:40	04/24/19 21:55		
4,6-Dinitro-2-methylphenol	0.12 U	mg/kg	0.72	0.12	1	04/23/19 09:40	04/24/19 21:55	534-52-1	
4-Chloro-3-methylphenol	0.0073 U	mg/kg	0.72	0.0073	1	04/23/19 09:40	04/24/19 21:55	59-50-7	
4-Nitrophenol	0.078 U	mg/kg	0.23	0.078	1	04/23/19 09:40	04/24/19 21:55	100-02-7	
Pentachlorophenol	0.093 U	mg/kg	0.72	0.093	1	04/23/19 09:40	04/24/19 21:55	87-86-5	
Phenol	0.010 U	mg/kg	0.18	0.010	1	04/23/19 09:40	04/24/19 21:55	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	26	%	24-98		1	04/23/19 09:40	04/24/19 21:55	4165-60-0	
2-Fluorobiphenyl (S)	35	%	29-101		1	04/23/19 09:40	04/24/19 21:55	321-60-8	
p-Terphenyl-d14 (S)	43	%	29-112		1	04/23/19 09:40	04/24/19 21:55	1718-51-0	
Phenol-d5 (S)	23	%	10-104		1	04/23/19 09:40	04/24/19 21:55	4165-62-2	
2-Fluorophenol (S)	23	%	19-95		1	04/23/19 09:40	04/24/19 21:55	367-12-4	
2,4,6-Tribromophenol (S)	31	%	23-110		1	04/23/19 09:40	04/24/19 21:55	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.5	%	0.10	0.10	1		04/24/19 15:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-6 (0-6") Lab ID: 35462926013 Collected: 04/17/19 13:28 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.049 U	mg/kg	0.41	0.049	1	04/23/19 09:40	04/24/19 22:20	58-90-2	
2,4,5-Trichlorophenol	0.0082 U	mg/kg	0.21	0.0082	1	04/23/19 09:40	04/24/19 22:20	95-95-4	
2,4,6-Trichlorophenol	0.011 U	mg/kg	0.21	0.011	1	04/23/19 09:40	04/24/19 22:20	88-06-2	
2,4-Dichlorophenol	0.0092 U	mg/kg	0.21	0.0092	1	04/23/19 09:40	04/24/19 22:20	120-83-2	
2,4-Dimethylphenol	0.0094 U	mg/kg	0.21	0.0094	1	04/23/19 09:40	04/24/19 22:20	105-67-9	
2,4-Dinitrophenol	0.12 U	mg/kg	0.82	0.12	1	04/23/19 09:40	04/24/19 22:20	51-28-5	
2,6-Dichlorophenol	0.0071 U	mg/kg	0.21	0.0071	1	04/23/19 09:40	04/24/19 22:20	87-65-0	N2
2-Chlorophenol	0.0089 U	mg/kg	0.21	0.0089	1	04/23/19 09:40	04/24/19 22:20	95-57-8	
2-Methylphenol(o-Cresol)	0.0099 U	mg/kg	0.21	0.0099	1	04/23/19 09:40	04/24/19 22:20	95-48-7	
2-Nitrophenol	0.066 U	mg/kg	0.21	0.066	1	04/23/19 09:40	04/24/19 22:20	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.0094 U	mg/kg	0.21	0.0094	1	04/23/19 09:40	04/24/19 22:20		
4,6-Dinitro-2-methylphenol	0.13 U	mg/kg	0.82	0.13	1	04/23/19 09:40	04/24/19 22:20	534-52-1	
4-Chloro-3-methylphenol	0.0083 U	mg/kg	0.82	0.0083	1	04/23/19 09:40	04/24/19 22:20	59-50-7	
4-Nitrophenol	0.088 U	mg/kg	0.27	0.088	1	04/23/19 09:40	04/24/19 22:20	100-02-7	
Pentachlorophenol	0.11 U	mg/kg	0.82	0.11	1	04/23/19 09:40	04/24/19 22:20	87-86-5	
Phenol	0.012 U	mg/kg	0.21	0.012	1	04/23/19 09:40	04/24/19 22:20	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	16	%	24-98		1	04/23/19 09:40	04/24/19 22:20	4165-60-0	J(S0), J(S5)
2-Fluorobiphenyl (S)	24	%	29-101		1	04/23/19 09:40	04/24/19 22:20	321-60-8	J(S0), J(S5)
p-Terphenyl-d14 (S)	26	%	29-112		1	04/23/19 09:40	04/24/19 22:20	1718-51-0	J(S0), J(S5)
Phenol-d5 (S)	14	%	10-104		1	04/23/19 09:40	04/24/19 22:20	4165-62-2	
2-Fluorophenol (S)	14	%	19-95		1	04/23/19 09:40	04/24/19 22:20	367-12-4	J(S0), J(S5)
2,4,6-Tribromophenol (S)	18	%	23-110		1	04/23/19 09:40	04/24/19 22:20	118-79-6	J(S0), J(S5)
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.8	%	0.10	0.10	1		04/24/19 15:59		

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-7 (6"-2') Lab ID: 35462926014 Collected: 04/17/19 12:12 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.062 U	mg/kg	0.53	0.062	1	04/23/19 09:40	04/24/19 22:47	58-90-2	
2,4,5-Trichlorophenol	0.010 U	mg/kg	0.26	0.010	1	04/23/19 09:40	04/24/19 22:47	95-95-4	
2,4,6-Trichlorophenol	0.014 U	mg/kg	0.26	0.014	1	04/23/19 09:40	04/24/19 22:47	88-06-2	
2,4-Dichlorophenol	0.012 U	mg/kg	0.26	0.012	1	04/23/19 09:40	04/24/19 22:47	120-83-2	
2,4-Dimethylphenol	0.012 U	mg/kg	0.26	0.012	1	04/23/19 09:40	04/24/19 22:47	105-67-9	
2,4-Dinitrophenol	0.16 U	mg/kg	1.0	0.16	1	04/23/19 09:40	04/24/19 22:47	51-28-5	
2,6-Dichlorophenol	0.0090 U	mg/kg	0.26	0.0090	1	04/23/19 09:40	04/24/19 22:47	87-65-0	N2
2-Chlorophenol	0.011 U	mg/kg	0.26	0.011	1	04/23/19 09:40	04/24/19 22:47	95-57-8	
2-Methylphenol(o-Cresol)	0.013 U	mg/kg	0.26	0.013	1	04/23/19 09:40	04/24/19 22:47	95-48-7	
2-Nitrophenol	0.083 U	mg/kg	0.26	0.083	1	04/23/19 09:40	04/24/19 22:47	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.058 I	mg/kg	0.26	0.012	1	04/23/19 09:40	04/24/19 22:47		
4,6-Dinitro-2-methylphenol	0.17 U	mg/kg	1.0	0.17	1	04/23/19 09:40	04/24/19 22:47	534-52-1	
4-Chloro-3-methylphenol	0.010 U	mg/kg	1.0	0.010	1	04/23/19 09:40	04/24/19 22:47	59-50-7	
4-Nitrophenol	0.11 U	mg/kg	0.34	0.11	1	04/23/19 09:40	04/24/19 22:47	100-02-7	
Pentachlorophenol	0.13 U	mg/kg	1.0	0.13	1	04/23/19 09:40	04/24/19 22:47	87-86-5	
Phenol	0.017 I	mg/kg	0.26	0.015	1	04/23/19 09:40	04/24/19 22:47	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	47	%	24-98		1	04/23/19 09:40	04/24/19 22:47	4165-60-0	
2-Fluorobiphenyl (S)	67	%	29-101		1	04/23/19 09:40	04/24/19 22:47	321-60-8	
p-Terphenyl-d14 (S)	75	%	29-112		1	04/23/19 09:40	04/24/19 22:47	1718-51-0	
Phenol-d5 (S)	54	%	10-104		1	04/23/19 09:40	04/24/19 22:47	4165-62-2	
2-Fluorophenol (S)	53	%	19-95		1	04/23/19 09:40	04/24/19 22:47	367-12-4	
2,4,6-Tribromophenol (S)	70	%	23-110		1	04/23/19 09:40	04/24/19 22:47	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	34.8	%	0.10	0.10	1		04/24/19 16:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35462926

Sample: SBC-11 (0-6") Lab ID: 35462926015 Collected: 04/17/19 14:05 Received: 04/18/19 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Full List Microwave									
Analytical Method: EPA 8270 Preparation Method: EPA 3546									
2,3,4,6-Tetrachlorophenol	0.050 U	mg/kg	0.42	0.050	1	04/23/19 09:40	04/24/19 23:13	58-90-2	
2,4,5-Trichlorophenol	0.0083 U	mg/kg	0.21	0.0083	1	04/23/19 09:40	04/24/19 23:13	95-95-4	
2,4,6-Trichlorophenol	0.011 U	mg/kg	0.21	0.011	1	04/23/19 09:40	04/24/19 23:13	88-06-2	
2,4-Dichlorophenol	0.0094 U	mg/kg	0.21	0.0094	1	04/23/19 09:40	04/24/19 23:13	120-83-2	
2,4-Dimethylphenol	0.0096 U	mg/kg	0.21	0.0096	1	04/23/19 09:40	04/24/19 23:13	105-67-9	
2,4-Dinitrophenol	0.13 U	mg/kg	0.84	0.13	1	04/23/19 09:40	04/24/19 23:13	51-28-5	
2,6-Dichlorophenol	0.0073 U	mg/kg	0.21	0.0073	1	04/23/19 09:40	04/24/19 23:13	87-65-0	N2
2-Chlorophenol	0.0091 U	mg/kg	0.21	0.0091	1	04/23/19 09:40	04/24/19 23:13	95-57-8	
2-Methylphenol(o-Cresol)	0.010 U	mg/kg	0.21	0.010	1	04/23/19 09:40	04/24/19 23:13	95-48-7	
2-Nitrophenol	0.067 U	mg/kg	0.21	0.067	1	04/23/19 09:40	04/24/19 23:13	88-75-5	
3&4-Methylphenol(m&p Cresol)	0.020 I	mg/kg	0.21	0.0096	1	04/23/19 09:40	04/24/19 23:13		
4,6-Dinitro-2-methylphenol	0.14 U	mg/kg	0.84	0.14	1	04/23/19 09:40	04/24/19 23:13	534-52-1	
4-Chloro-3-methylphenol	0.0084 U	mg/kg	0.84	0.0084	1	04/23/19 09:40	04/24/19 23:13	59-50-7	
4-Nitrophenol	0.091 U	mg/kg	0.27	0.091	1	04/23/19 09:40	04/24/19 23:13	100-02-7	
Pentachlorophenol	0.11 U	mg/kg	0.84	0.11	1	04/23/19 09:40	04/24/19 23:13	87-86-5	
Phenol	0.013 I	mg/kg	0.21	0.012	1	04/23/19 09:40	04/24/19 23:13	108-95-2	
Surrogates									
Nitrobenzene-d5 (S)	46	%	24-98		1	04/23/19 09:40	04/24/19 23:13	4165-60-0	
2-Fluorobiphenyl (S)	61	%	29-101		1	04/23/19 09:40	04/24/19 23:13	321-60-8	
p-Terphenyl-d14 (S)	68	%	29-112		1	04/23/19 09:40	04/24/19 23:13	1718-51-0	
Phenol-d5 (S)	44	%	10-104		1	04/23/19 09:40	04/24/19 23:13	4165-62-2	
2-Fluorophenol (S)	40	%	19-95		1	04/23/19 09:40	04/24/19 23:13	367-12-4	
2,4,6-Tribromophenol (S)	60	%	23-110		1	04/23/19 09:40	04/24/19 23:13	118-79-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	19.1	%	0.10	0.10	1		04/24/19 16:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533295 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35462926001, 35462926002, 35462926003, 35462926004, 35462926005, 35462926006, 35462926007, 35462926008

METHOD BLANK: 2889045 Matrix: Solid
Associated Lab Samples: 35462926001, 35462926002, 35462926003, 35462926004, 35462926005, 35462926006, 35462926007, 35462926008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.29 U	0.59	0.29	04/25/19 16:56	
Cadmium	mg/kg	0.029 U	0.059	0.029	04/25/19 16:56	
Chromium	mg/kg	0.15 U	0.29	0.15	04/25/19 16:56	
Lead	mg/kg	0.29 U	0.59	0.29	04/25/19 16:56	

LABORATORY CONTROL SAMPLE: 2889046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	14.9	14.0	94	80-120	
Cadmium	mg/kg	1.5	1.5	98	80-120	
Chromium	mg/kg	14.9	15.0	100	80-120	
Lead	mg/kg	14.9	14.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2889047 2889048

Parameter	Units	35462909015		2889047		2889048		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Arsenic	mg/kg	0.33	13.6	15	11.0	13.8	78	90	75-125	23	20	J(R1)	
Cadmium	mg/kg	0.22	1.4	1.5	1.3	1.5	78	89	75-125	19	20		
Chromium	mg/kg	14.3	13.6	15	42.9	24.9	210	70	75-125	53	20	J(M1), J(R1)	
Lead	mg/kg	3.1	13.6	15	17.3	17.0	104	92	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533534 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35462926009, 35462926010

METHOD BLANK: 2890015 Matrix: Solid
Associated Lab Samples: 35462926009, 35462926010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.24 U	0.49	0.24	04/25/19 16:02	
Cadmium	mg/kg	0.024 U	0.049	0.024	04/25/19 16:02	
Chromium	mg/kg	0.12 U	0.24	0.12	04/25/19 16:02	
Lead	mg/kg	0.24 U	0.49	0.24	04/25/19 16:02	

LABORATORY CONTROL SAMPLE: 2890016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	13	12.3	95	80-120	
Cadmium	mg/kg	1.3	1.3	99	80-120	
Chromium	mg/kg	13	13.2	102	80-120	
Lead	mg/kg	13	13.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2890017 2890018

Parameter	Units	35462044001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Arsenic	mg/kg	13.4 U	684	640	650	604	95	94	75-125	7	20			
Cadmium	mg/kg	1.4 I	65.6	65.6	68.2	64.3	98	99	75-125	6	20			
Chromium	mg/kg	30.4	684	640	716	682	100	102	75-125	5	20			
Lead	mg/kg	22.0 I	684	640	690	659	98	100	75-125	5	20			

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 532989 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid Full List MSSV Microwave
Associated Lab Samples: 35462926011, 35462926012, 35462926013, 35462926014, 35462926015

METHOD BLANK: 2887481 Matrix: Solid
Associated Lab Samples: 35462926011, 35462926012, 35462926013, 35462926014, 35462926015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	0.040 U	0.34	0.040	04/24/19 18:02	
2,4,5-Trichlorophenol	mg/kg	0.0067 U	0.17	0.0067	04/24/19 18:02	
2,4,6-Trichlorophenol	mg/kg	0.0092 U	0.17	0.0092	04/24/19 18:02	
2,4-Dichlorophenol	mg/kg	0.0075 U	0.17	0.0075	04/24/19 18:02	
2,4-Dimethylphenol	mg/kg	0.0077 U	0.17	0.0077	04/24/19 18:02	
2,4-Dinitrophenol	mg/kg	0.10 U	0.67	0.10	04/24/19 18:02	
2,6-Dichlorophenol	mg/kg	0.0058 U	0.17	0.0058	04/24/19 18:02	N2
2-Chlorophenol	mg/kg	0.0073 U	0.17	0.0073	04/24/19 18:02	
2-Methylphenol(o-Cresol)	mg/kg	0.0082 U	0.17	0.0082	04/24/19 18:02	
2-Nitrophenol	mg/kg	0.054 U	0.17	0.054	04/24/19 18:02	
3&4-Methylphenol(m&p Cresol)	mg/kg	0.0077 U	0.17	0.0077	04/24/19 18:02	
4,6-Dinitro-2-methylphenol	mg/kg	0.11 U	0.67	0.11	04/24/19 18:02	
4-Chloro-3-methylphenol	mg/kg	0.0068 U	0.67	0.0068	04/24/19 18:02	
4-Nitrophenol	mg/kg	0.073 U	0.22	0.073	04/24/19 18:02	
Pentachlorophenol	mg/kg	0.087 U	0.67	0.087	04/24/19 18:02	
Phenol	mg/kg	0.0096 U	0.17	0.0096	04/24/19 18:02	
2,4,6-Tribromophenol (S)	%	80	23-110		04/24/19 18:02	
2-Fluorobiphenyl (S)	%	78	29-101		04/24/19 18:02	
2-Fluorophenol (S)	%	72	19-95		04/24/19 18:02	
Nitrobenzene-d5 (S)	%	72	24-98		04/24/19 18:02	
p-Terphenyl-d14 (S)	%	93	29-112		04/24/19 18:02	
Phenol-d5 (S)	%	73	10-104		04/24/19 18:02	

LABORATORY CONTROL SAMPLE: 2887482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,3,4,6-Tetrachlorophenol	mg/kg	1.7	1.3	78	59-117	
2,4,5-Trichlorophenol	mg/kg	1.7	1.2	72	51-99	
2,4,6-Trichlorophenol	mg/kg	1.7	1.2	73	51-98	
2,4-Dichlorophenol	mg/kg	1.7	1.2	70	50-96	
2,4-Dimethylphenol	mg/kg	1.7	1.1	67	49-96	
2,4-Dinitrophenol	mg/kg	1.7	0.99	59	10-126	
2,6-Dichlorophenol	mg/kg	1.7	1.2	70		N2
2-Chlorophenol	mg/kg	1.7	1.1	66	48-92	
2-Methylphenol(o-Cresol)	mg/kg	1.7	1.1	67	49-93	
2-Nitrophenol	mg/kg	1.7	1.2	69	51-100	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.7	1.1	67	49-94	
4,6-Dinitro-2-methylphenol	mg/kg	1.7	1.2	72	32-123	
4-Chloro-3-methylphenol	mg/kg	1.7	1.2	71	51-99	
4-Nitrophenol	mg/kg	1.7	1.2	73	50-115	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

LABORATORY CONTROL SAMPLE: 2887482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	mg/kg	1.7	1.3	80	39-115	
Phenol	mg/kg	1.7	1.1	66	46-94	
2,4,6-Tribromophenol (S)	%			78	23-110	
2-Fluorobiphenyl (S)	%			71	29-101	
2-Fluorophenol (S)	%			62	19-95	
Nitrobenzene-d5 (S)	%			67	24-98	
p-Terphenyl-d14 (S)	%			85	29-112	
Phenol-d5 (S)	%			63	10-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2887496 2887497

Parameter	Units	35462259003		MSD		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
2,3,4,6-Tetrachlorophenol	mg/kg	1.5 U	12.5	12.5	3.2	4.0	26	32	59-117	24	40	J(M1)		
2,4,5-Trichlorophenol	mg/kg	0.25 U	12.5	12.5	5.4	6.2	45	50	51-99	13	40	J(M1)		
2,4,6-Trichlorophenol	mg/kg	0.34 U	12.5	12.5	5.2	6.2	43	50	51-98	17	40	J(M1)		
2,4-Dichlorophenol	mg/kg	0.28 U	12.5	12.5	6.1	7.1	50	57	50-96	15	40			
2,4-Dimethylphenol	mg/kg	0.29 U	12.5	12.5	6.2	7.0	51	56	49-96	11	40			
2,4-Dinitrophenol	mg/kg	3.8 U	12.5	12.5	0.75 U	0.76 U	4	0	10-126		40	J(M1)		
2,6-Dichlorophenol	mg/kg	0.22 U	12.5	12.5	5.9	6.6	48	53		12		N2		
2-Chlorophenol	mg/kg	0.27 U	12.5	12.5	6.2	6.8	51	55	48-92	9	40			
2-Methylphenol(o-Cresol)	mg/kg	0.30 U	12.5	12.5	6.2	6.7	50	53	49-93	8	40			
2-Nitrophenol	mg/kg	2.0 U	12.5	12.5	6.1	5.8	50	47	51-100	5	40	J(M1)		
3&4-Methylphenol(m&p Cresol)	mg/kg	0.29 U	12.5	12.5	6.1	6.6	49	52	49-94	8	40			
4,6-Dinitro-2-methylphenol	mg/kg	4.1 U	12.5	12.5	0.82 I	0.82 U	7	5	32-123		40	J(M1)		
4-Chloro-3-methylphenol	mg/kg	0.25 U	12.5	12.5	5.8	6.7	48	54	51-99	13	40	J(M1)		
4-Nitrophenol	mg/kg	2.7 U	12.5	12.5	2.1	2.7	18	22	50-115	22	40	J(M1)		
Pentachlorophenol	mg/kg	3.2 U	12.5	12.5	1.8 I	2.4 I	15	20	39-115		40	J(M1)		
Phenol	mg/kg	0.36 U	12.5	12.5	5.8	6.5	46	51	46-94	11	40			
2,4,6-Tribromophenol (S)	%						34	37	23-110					
2-Fluorobiphenyl (S)	%						55	58	29-101					
2-Fluorophenol (S)	%						43	46	19-95					
Nitrobenzene-d5 (S)	%						53	56	24-98					
p-Terphenyl-d14 (S)	%						48	54	29-112					
Phenol-d5 (S)	%						43	46	10-104					

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533281 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 35462926001, 35462926002, 35462926003

METHOD BLANK: 2888937 Matrix: Solid
Associated Lab Samples: 35462926001, 35462926002, 35462926003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.040	0.013	04/24/19 16:21	
2-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	04/24/19 16:21	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	04/24/19 16:21	
Acenaphthylene	mg/kg	0.011 U	0.034	0.011	04/24/19 16:21	
Anthracene	mg/kg	0.012 U	0.036	0.012	04/24/19 16:21	
Benzo(a)anthracene	mg/kg	0.0096 U	0.034	0.0096	04/24/19 16:21	
Benzo(a)pyrene	mg/kg	0.0083 U	0.034	0.0083	04/24/19 16:21	
Benzo(b)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/24/19 16:21	
Benzo(g,h,i)perylene	mg/kg	0.0084 U	0.034	0.0084	04/24/19 16:21	
Benzo(k)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/24/19 16:21	
Chrysene	mg/kg	0.011 U	0.034	0.011	04/24/19 16:21	
Dibenz(a,h)anthracene	mg/kg	0.0077 U	0.034	0.0077	04/24/19 16:21	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	04/24/19 16:21	
Fluorene	mg/kg	0.012 U	0.037	0.012	04/24/19 16:21	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	0.034	0.0077	04/24/19 16:21	
Naphthalene	mg/kg	0.012 U	0.035	0.012	04/24/19 16:21	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	04/24/19 16:21	
Pyrene	mg/kg	0.011 U	0.034	0.011	04/24/19 16:21	
2-Fluorobiphenyl (S)	%	74	29-101		04/24/19 16:21	
Nitrobenzene-d5 (S)	%	68	24-98		04/24/19 16:21	
p-Terphenyl-d14 (S)	%	83	29-112		04/24/19 16:21	

LABORATORY CONTROL SAMPLE: 2888938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	1.3	79	38-115	
2-Methylnaphthalene	mg/kg	1.7	1.3	78	37-115	
Acenaphthene	mg/kg	1.7	1.2	75	30-127	
Acenaphthylene	mg/kg	1.7	1.4	85	29-129	
Anthracene	mg/kg	1.7	1.4	82	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.5	88	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.4	84	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.4	82	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.4	84	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.4	84	39-133	
Chrysene	mg/kg	1.7	1.4	85	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.4	86	37-127	
Fluoranthene	mg/kg	1.7	1.4	85	39-130	
Fluorene	mg/kg	1.7	1.4	84	35-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.4	86	35-133	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

LABORATORY CONTROL SAMPLE: 2888938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	1.7	1.3	77	36-115	
Phenanthrene	mg/kg	1.7	1.4	83	35-128	
Pyrene	mg/kg	1.7	1.4	85	37-132	
2-Fluorobiphenyl (S)	%			83	29-101	
Nitrobenzene-d5 (S)	%			73	24-98	
p-Terphenyl-d14 (S)	%			84	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2889010 2889011

Parameter	Units	35463169006		2889010		2889011		% Rec	% Rec	% Rec Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				MSD % Rec	RPD	
1-Methylnaphthalene	mg/kg	0.014 U	1.6	1.6	1.2	1.2	70	69	38-115	2	40		
2-Methylnaphthalene	mg/kg	0.013 U	1.6	1.6	1.2	1.1	69	65	37-115	5	40		
Acenaphthene	mg/kg	0.012 U	1.6	1.6	1.1	1.1	65	64	30-127	2	40		
Acenaphthylene	mg/kg	0.011 U	1.6	1.6	1.3	1.2	76	73	29-129	4	40		
Anthracene	mg/kg	0.012 U	1.6	1.6	1.2	1.2	74	72	37-126	2	40		
Benzo(a)anthracene	mg/kg	0.0099 U	1.6	1.6	1.4	1.3	80	79	37-130	1	40		
Benzo(a)pyrene	mg/kg	0.0086 U	1.6	1.6	1.3	1.3	77	76	39-128	1	40		
Benzo(b)fluoranthene	mg/kg	0.0093 U	1.6	1.6	1.3	1.3	76	76	38-128	1	40		
Benzo(g,h,i)perylene	mg/kg	0.0087 U	1.6	1.6	1.3	1.3	76	76	34-136	0	40		
Benzo(k)fluoranthene	mg/kg	0.0093 U	1.6	1.6	1.3	1.3	77	78	39-133	1	40		
Chrysene	mg/kg	0.011 U	1.6	1.6	1.3	1.3	77	76	39-125	3	40		
Dibenz(a,h)anthracene	mg/kg	0.0080 U	1.6	1.6	1.3	1.3	77	77	37-127	1	40		
Fluoranthene	mg/kg	0.011 U	1.6	1.6	1.3	1.3	75	74	39-130	2	40		
Fluorene	mg/kg	0.012 U	1.6	1.6	1.3	1.3	75	74	35-125	1	40		
Indeno(1,2,3-cd)pyrene	mg/kg	0.0079 U	1.6	1.6	1.3	1.3	79	78	35-133	2	40		
Naphthalene	mg/kg	0.012 U	1.6	1.6	1.2	1.1	69	65	36-115	5	40		
Phenanthrene	mg/kg	0.011 U	1.6	1.6	1.3	1.3	77	75	35-128	3	40		
Pyrene	mg/kg	0.011 U	1.6	1.6	1.4	1.4	82	81	37-132	1	40		
2-Fluorobiphenyl (S)	%						72	66	29-101				
Nitrobenzene-d5 (S)	%						67	63	24-98				
p-Terphenyl-d14 (S)	%						81	81	29-112				

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533283 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 35462926004, 35462926005, 35462926006, 35462926007, 35462926008, 35462926009, 35462926010

METHOD BLANK: 2888951 Matrix: Solid
Associated Lab Samples: 35462926004, 35462926005, 35462926006, 35462926007, 35462926008, 35462926009, 35462926010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	0.013 U	0.040	0.013	04/24/19 22:31	
2-Methylnaphthalene	mg/kg	0.013 U	0.039	0.013	04/24/19 22:31	
Acenaphthene	mg/kg	0.012 U	0.036	0.012	04/24/19 22:31	
Acenaphthylene	mg/kg	0.011 U	0.034	0.011	04/24/19 22:31	
Anthracene	mg/kg	0.012 U	0.036	0.012	04/24/19 22:31	
Benzo(a)anthracene	mg/kg	0.0096 U	0.034	0.0096	04/24/19 22:31	
Benzo(a)pyrene	mg/kg	0.0083 U	0.034	0.0083	04/24/19 22:31	
Benzo(b)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/24/19 22:31	
Benzo(g,h,i)perylene	mg/kg	0.0084 U	0.034	0.0084	04/24/19 22:31	
Benzo(k)fluoranthene	mg/kg	0.0090 U	0.034	0.0090	04/24/19 22:31	
Chrysene	mg/kg	0.011 U	0.034	0.011	04/24/19 22:31	
Dibenz(a,h)anthracene	mg/kg	0.0077 U	0.034	0.0077	04/24/19 22:31	
Fluoranthene	mg/kg	0.011 U	0.034	0.011	04/24/19 22:31	
Fluorene	mg/kg	0.012 U	0.037	0.012	04/24/19 22:31	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	0.034	0.0077	04/24/19 22:31	
Naphthalene	mg/kg	0.012 U	0.035	0.012	04/24/19 22:31	
Phenanthrene	mg/kg	0.011 U	0.034	0.011	04/24/19 22:31	
Pyrene	mg/kg	0.011 U	0.034	0.011	04/24/19 22:31	
2-Fluorobiphenyl (S)	%	88	29-101		04/24/19 22:31	
Nitrobenzene-d5 (S)	%	87	24-98		04/24/19 22:31	
p-Terphenyl-d14 (S)	%	92	29-112		04/24/19 22:31	

LABORATORY CONTROL SAMPLE: 2888952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	1.7	1.4	86	38-115	
2-Methylnaphthalene	mg/kg	1.7	1.4	83	37-115	
Acenaphthene	mg/kg	1.7	1.3	79	30-127	
Acenaphthylene	mg/kg	1.7	1.5	89	29-129	
Anthracene	mg/kg	1.7	1.4	87	37-126	
Benzo(a)anthracene	mg/kg	1.7	1.6	95	37-130	
Benzo(a)pyrene	mg/kg	1.7	1.5	88	39-128	
Benzo(b)fluoranthene	mg/kg	1.7	1.5	88	38-128	
Benzo(g,h,i)perylene	mg/kg	1.7	1.4	86	34-136	
Benzo(k)fluoranthene	mg/kg	1.7	1.5	89	39-133	
Chrysene	mg/kg	1.7	1.5	92	39-125	
Dibenz(a,h)anthracene	mg/kg	1.7	1.5	88	37-127	
Fluoranthene	mg/kg	1.7	1.5	91	39-130	
Fluorene	mg/kg	1.7	1.5	90	35-125	
Indeno(1,2,3-cd)pyrene	mg/kg	1.7	1.5	89	35-133	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

LABORATORY CONTROL SAMPLE: 2888952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	1.7	1.4	83	36-115	
Phenanthrene	mg/kg	1.7	1.5	90	35-128	
Pyrene	mg/kg	1.7	1.5	89	37-132	
2-Fluorobiphenyl (S)	%			83	29-101	
Nitrobenzene-d5 (S)	%			83	24-98	
p-Terphenyl-d14 (S)	%			91	29-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2889082 2889083

Parameter	Units	35462773001		2889082		2889083		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1-Methylnaphthalene	mg/kg	0.097	1.7	1.6	1.3	1.3	73	74	38-115	0	40	
2-Methylnaphthalene	mg/kg	0.17	1.7	1.6	1.3	1.3	66	67	37-115	0	40	
Acenaphthene	mg/kg	0.012 U	1.7	1.6	1.2	1.2	72	72	30-127	1	40	
Acenaphthylene	mg/kg	0.011 U	1.7	1.6	1.4	1.4	83	84	29-129	0	40	
Anthracene	mg/kg	0.012 U	1.7	1.6	1.4	1.4	83	84	37-126	0	40	
Benzo(a)anthracene	mg/kg	0.0097 U	1.7	1.6	1.5	1.5	92	91	37-130	1	40	
Benzo(a)pyrene	mg/kg	0.0084 U	1.7	1.6	1.4	1.4	84	85	39-128	0	40	
Benzo(b)fluoranthene	mg/kg	0.0090 U	1.7	1.6	1.4	1.4	84	84	38-128	0	40	
Benzo(g,h,i)perylene	mg/kg	0.0085 U	1.7	1.6	1.4	1.3	80	80	34-136	2	40	
Benzo(k)fluoranthene	mg/kg	0.0090 U	1.7	1.6	1.4	1.5	85	89	39-133	3	40	
Chrysene	mg/kg	0.011 U	1.7	1.6	1.5	1.5	89	89	39-125	2	40	
Dibenz(a,h)anthracene	mg/kg	0.0078 U	1.7	1.6	1.4	1.4	82	82	37-127	1	40	
Fluoranthene	mg/kg	0.011 U	1.7	1.6	1.5	1.4	86	86	39-130	2	40	
Fluorene	mg/kg	0.012 U	1.7	1.6	1.4	1.4	85	84	35-125	2	40	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0077 U	1.7	1.6	1.4	1.4	85	84	35-133	2	40	
Naphthalene	mg/kg	0.064	1.7	1.6	1.3	1.3	72	74	36-115	1	40	
Phenanthrene	mg/kg	0.011 U	1.7	1.6	1.5	1.5	87	87	35-128	1	40	
Pyrene	mg/kg	0.011 U	1.7	1.6	1.6	1.6	92	93	37-132	0	40	
2-Fluorobiphenyl (S)	%						78	77	29-101			
Nitrobenzene-d5 (S)	%						75	75	24-98			
p-Terphenyl-d14 (S)	%						89	91	29-112			

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533282 Analysis Method: FL-PRO
QC Batch Method: EPA 3546 Analysis Description: FL-PRO Soil
Associated Lab Samples: 35462926001, 35462926002

METHOD BLANK: 2888941 Matrix: Solid
Associated Lab Samples: 35462926001, 35462926002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5 U	3.9	2.5	04/24/19 15:59	
N-Pentatriacontane (S)	%	101	42-159		04/24/19 15:59	
o-Terphenyl (S)	%	94	66-136		04/24/19 15:59	

LABORATORY CONTROL SAMPLE: 2888942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	197	164	84	65-119	
N-Pentatriacontane (S)	%			93	42-159	
o-Terphenyl (S)	%			93	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2889013 2889014

Parameter	Units	35462660002		2889013		2889014		% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Petroleum Range Organics	mg/kg	3.0 I	213	211	179	165	83	77	39-181	8	25
N-Pentatriacontane (S)	%						92	96	42-159		
o-Terphenyl (S)	%						91	95	66-136		

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35462926

QC Batch: 533284 Analysis Method: FL-PRO
QC Batch Method: EPA 3546 Analysis Description: FL-PRO Soil
Associated Lab Samples: 35462926003, 35462926004, 35462926005, 35462926006, 35462926007, 35462926008, 35462926009, 35462926010

METHOD BLANK: 2888965 Matrix: Solid
Associated Lab Samples: 35462926003, 35462926004, 35462926005, 35462926006, 35462926007, 35462926008, 35462926009, 35462926010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5 U	4.0	2.5	04/24/19 23:09	
N-Pentatriacontane (S)	%	94	42-159		04/24/19 23:09	
o-Terphenyl (S)	%	95	66-136		04/24/19 23:09	

LABORATORY CONTROL SAMPLE: 2888966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	198	184	93	65-119	
N-Pentatriacontane (S)	%			103	42-159	
o-Terphenyl (S)	%			104	66-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2889080 2889081

Parameter	Units	35462774006		2889081		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Petroleum Range Organics	mg/kg	2.7 U	208	209	183	158	87	75	39-181	15	25
N-Pentatriacontane (S)	%						98	98	42-159		
o-Terphenyl (S)	%						105	92	66-136		

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QUALIFIERS

Project: Future Courthouse
Pace Project No.: 35462926

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4 Sample was diluted due to the presence of high levels of target analytes.
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1) Estimated Value. RPD value was outside control limits.
J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.
J(S5) Estimated Value. Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse
Pace Project No.: 35462926

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35462926001	SBC-2 (0-6")	EPA 3546	533282	FL-PRO	533317
35462926002	SBC-2 (6"-2')	EPA 3546	533282	FL-PRO	533317
35462926003	SBC-7 (0-6")	EPA 3546	533284	FL-PRO	533422
35462926004	SBC-7 (6"-2')	EPA 3546	533284	FL-PRO	533422
35462926005	SBC-6 (0-6")	EPA 3546	533284	FL-PRO	533422
35462926006	SBC-6 (6"-2')	EPA 3546	533284	FL-PRO	533422
35462926007	SBC-11 (0-6")	EPA 3546	533284	FL-PRO	533422
35462926008	SBC-11 (6"-2')	EPA 3546	533284	FL-PRO	533422
35462926009	SBC-12 (0-6")	EPA 3546	533284	FL-PRO	533422
35462926010	SBC-12 (6"-2')	EPA 3546	533284	FL-PRO	533422
35462926001	SBC-2 (0-6")	EPA 3050	533295	EPA 6010	533453
35462926002	SBC-2 (6"-2')	EPA 3050	533295	EPA 6010	533453
35462926003	SBC-7 (0-6")	EPA 3050	533295	EPA 6010	533453
35462926004	SBC-7 (6"-2')	EPA 3050	533295	EPA 6010	533453
35462926005	SBC-6 (0-6")	EPA 3050	533295	EPA 6010	533453
35462926006	SBC-6 (6"-2')	EPA 3050	533295	EPA 6010	533453
35462926007	SBC-11 (0-6")	EPA 3050	533295	EPA 6010	533453
35462926008	SBC-11 (6"-2')	EPA 3050	533295	EPA 6010	533453
35462926009	SBC-12 (0-6")	EPA 3050	533534	EPA 6010	533655
35462926010	SBC-12 (6"-2')	EPA 3050	533534	EPA 6010	533655
35462926011	SBC-12 (0-6")	EPA 3546	532989	EPA 8270	533520
35462926012	SBC-7 (0-6")	EPA 3546	532989	EPA 8270	533520
35462926013	SBC-6 (0-6")	EPA 3546	532989	EPA 8270	533520
35462926014	SBC-7 (6"-2')	EPA 3546	532989	EPA 8270	533520
35462926015	SBC-11 (0-6")	EPA 3546	532989	EPA 8270	533520
35462926001	SBC-2 (0-6")	EPA 3546	533281	EPA 8270	533385
35462926002	SBC-2 (6"-2')	EPA 3546	533281	EPA 8270	533385
35462926003	SBC-7 (0-6")	EPA 3546	533281	EPA 8270	533385
35462926004	SBC-7 (6"-2')	EPA 3546	533283	EPA 8270	533528
35462926005	SBC-6 (0-6")	EPA 3546	533283	EPA 8270	533528
35462926006	SBC-6 (6"-2')	EPA 3546	533283	EPA 8270	533528
35462926007	SBC-11 (0-6")	EPA 3546	533283	EPA 8270	533528
35462926008	SBC-11 (6"-2')	EPA 3546	533283	EPA 8270	533528
35462926009	SBC-12 (0-6")	EPA 3546	533283	EPA 8270	533528
35462926010	SBC-12 (6"-2')	EPA 3546	533283	EPA 8270	533528
35462926001	SBC-2 (0-6")	ASTM D2974-87	533593		
35462926002	SBC-2 (6"-2')	ASTM D2974-87	533593		
35462926003	SBC-7 (0-6")	ASTM D2974-87	533593		
35462926004	SBC-7 (6"-2')	ASTM D2974-87	533593		
35462926005	SBC-6 (0-6")	ASTM D2974-87	533593		
35462926006	SBC-6 (6"-2')	ASTM D2974-87	533593		
35462926007	SBC-11 (0-6")	ASTM D2974-87	533593		
35462926008	SBC-11 (6"-2')	ASTM D2974-87	533593		
35462926009	SBC-12 (0-6")	ASTM D2974-87	533593		
35462926010	SBC-12 (6"-2')	ASTM D2974-87	533593		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse
Pace Project No.: 35462926

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35462926011	SBC-12 (0-6")	ASTM D2974-87	533593		
35462926012	SBC-7 (0-6")	ASTM D2974-87	533593		
35462926013	SBC-6 (0-6")	ASTM D2974-87	533593		
35462926014	SBC-7 (6"-2')	ASTM D2974-87	533593		
35462926015	SBC-11 (0-6")	ASTM D2974-87	533593		

REPORT OF LABORATORY ANALYSIS

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Document Name: **APPENDIX 1E**
 Sample Condition Open Receipt Form
 Document No.:
 F-FL-C-007 rev. 13

Document Revised:
 May 30, 2018
 Issuing Authority:
 Pace Florida Quality Office

WO# : 35462926 **SCUR)**

Project # PM: CTR **Due Date:** 04/25/19
Project Manager: CLIENT: 36-SMASCII
Client:

Date and Initials of person:
Examining contents:
Label: _____
Deliver: _____
pH: _____

Thermometer Used: 9349 Date: 4/18/19 Time: 6:06 Initials: _____

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp. °C 3.7 (Visual) +0 (Correction Factor) 3.7 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____
- Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-1 (0-6)

Sample Date 04/17/2019 09:43

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.960	1.0	0.9600
Benzo(a)anthracene	1.100	0.1	0.1100
Benzo(b)fluoranthene	1.700	0.1	0.1700
Benzo(k)fluoranthene	0.670	0.01	0.0067
Chrysene	1.200	0.001	0.0012
Dibenz(a,h)anthracene	0.140	1.0	0.1400
Indeno(1,2,3-cd)pyrene	0.430	0.1	0.0430

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.4

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-1 (6-2)

Sample Date 04/17/2019 09:43

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.310	1.0	0.3100
Benzo(a)anthracene	0.280	0.1	0.0280
Benzo(b)fluoranthene	0.540	0.1	0.0540
Benzo(k)fluoranthene	0.190	0.01	0.0019
Chrysene	0.400	0.001	0.0004
Dibenz(a,h)anthracene	0.044	1.0	0.0440
Indeno(1,2,3-cd)pyrene	0.160	0.1	0.0160

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.5

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-2 (0-6")

Sample Date 04/17/2019 10:57

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.610	1.0	0.6100
Benzo(a)anthracene	0.650	0.1	0.0650
Benzo(b)fluoranthene	1.000	0.1	0.1000
Benzo(k)fluoranthene	0.450	0.01	0.0045
Chrysene	0.860	0.001	0.0009
Dibenz(a,h)anthracene	0.088	1.0	0.0880
Indeno(1,2,3-cd)pyrene	0.310	0.1	0.0310

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.9

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-2 (6"-2')

Sample Date 04/17/2019 10:57

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.140	1.0	0.1400
Benzo(a)anthracene	0.130	0.1	0.0130
Benzo(b)fluoranthene	0.290	0.1	0.0290
Benzo(k)fluoranthene	0.100	0.01	0.0010
Chrysene	0.200	0.001	0.0002
Dibenz(a,h)anthracene	0.014	1.0	0.0140
Indeno(1,2,3-cd)pyrene	0.072	0.1	0.0072

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

 Soil Sample No. SBC-3 (0-6)
 Sample Date 04/16/2019 11:15
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.220	1.0	0.2200
Benzo(a)anthracene	0.380	0.1	0.0380
Benzo(b)fluoranthene	0.400	0.1	0.0400
Benzo(k)fluoranthene	0.160	0.01	0.0016
Chrysene	0.560	0.001	0.0006
Dibenz(a,h)anthracene	0.020	1.0	0.0200
Indeno(1,2,3-cd)pyrene	0.120	0.1	0.0120

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.3

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC-3 (6-2)
 Sample Date 04/16/2019 11:15
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.250	1.0	0.2500
Benzo(a)anthracene	0.230	0.1	0.0230
Benzo(b)fluoranthene	0.370	0.1	0.0370
Benzo(k)fluoranthene	0.180	0.01	0.0018
Chrysene	0.310	0.001	0.0003
Dibenz(a,h)anthracene	0.037	1.0	0.0370
Indeno(1,2,3-cd)pyrene	0.140	0.1	0.0140

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.4

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 4 (0-6)
 Sample Date 04/15/2019 09:55
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.750	1.0	0.7500
Benzo(a)anthracene	0.800	0.1	0.0800
Benzo(b)fluoranthene	1.400	0.1	0.1400
Benzo(k)fluoranthene	0.490	0.01	0.0049
Chrysene	1.200	0.001	0.0012
Dibenz(a,h)anthracene	0.081	1.0	0.0810
Indeno(1,2,3-cd)pyrene	0.370	0.1	0.0370

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.1

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC - 4 (6-2)

Sample Date 04/16/2019 09:55

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.130	1.0	0.1300
Benzo(a)anthracene	0.140	0.1	0.0140
Benzo(b)fluoranthene	0.220	0.1	0.0220
Benzo(k)fluoranthene	0.077	0.01	0.0008
Chrysene	0.180	0.001	0.0002
Dibenz(a,h)anthracene	0.014	1.0	0.0140
Indeno(1,2,3-cd)pyrene	0.061	0.1	0.0061

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-5 (0-6)

Sample Date 04/16/2019 11:59

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	9.100	1.0	9.1000
Benzo(a)anthracene	8.700	0.1	0.8700
Benzo(b)fluoranthene	14.400	0.1	1.4400
Benzo(k)fluoranthene	6.100	0.01	0.0610
Chrysene	11.900	0.001	0.0119
Dibenz(a,h)anthracene	1.300	1.0	1.3000
Indeno(1,2,3-cd)pyrene	5.000	0.1	0.5000

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 13.3

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries

Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-5 (6-2)

Sample Date 04/16/2019 11:59

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	1.200	1.0	1.2000
Benzo(a)anthracene	1.000	0.1	0.1000
Benzo(b)fluoranthene	1.900	0.1	0.1900
Benzo(k)fluoranthene	0.820	0.01	0.0082
Chrysene	1.500	0.001	0.0015
Dibenz(a,h)anthracene	0.160	1.0	0.1600
Indeno(1,2,3-cd)pyrene	0.630	0.1	0.0630

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.7

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

 Soil Sample No. SBC-6 (0-6")
 Sample Date 04/17/2019 13:20
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.170	1.0	0.1700
Benzo(a)anthracene	0.170	0.1	0.0170
Benzo(b)fluoranthene	0.230	0.1	0.0230
Benzo(k)fluoranthene	0.100	0.01	0.0010
Chrysene	0.170	0.001	0.0002
Dibenz(a,h)anthracene	0.017	1.0	0.0170
Indeno(1,2,3-cd)pyrene	0.120	0.1	0.0120

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-6 (6"-2')

Sample Date 04/17/2019 13:20

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.690	1.0	0.6900
Benzo(a)anthracene	0.650	0.1	0.0650
Benzo(b)fluoranthene	1.100	0.1	0.1100
Benzo(k)fluoranthene	0.370	0.01	0.0037
Chrysene	0.600	0.001	0.0006
Dibenz(a,h)anthracene	0.140	1.0	0.1400
Indeno(1,2,3-cd)pyrene	0.480	0.1	0.0480

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.1

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries

Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-7 (0-6")

Sample Date 04/17/2019 12:07

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.460	1.0	0.4600
Benzo(a)anthracene	0.360	0.1	0.0360
Benzo(b)fluoranthene	0.810	0.1	0.0810
Benzo(k)fluoranthene	0.290	0.01	0.0029
Chrysene	0.470	0.001	0.0005
Dibenz(a,h)anthracene	0.066	1.0	0.0660
Indeno(1,2,3-cd)pyrene	0.240	0.1	0.0240

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.7

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

 Soil Sample No. SBC-7 (6"-2')
 Sample Date 04/17/2019 12:07
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.370	1.0	0.3700
Benzo(a)anthracene	0.310	0.1	0.0310
Benzo(b)fluoranthene	0.620	0.1	0.0620
Benzo(k)fluoranthene	0.240	0.01	0.0024
Chrysene	0.300	0.001	0.0003
Dibenz(a,h)anthracene	0.080	1.0	0.0800
Indeno(1,2,3-cd)pyrene	0.280	0.1	0.0280

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.6

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 8 (0-6)
 Sample Date 04/15/2019 14:55
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	2.000	1.0	2.0000
Benzo(a)anthracene	1.600	0.1	0.1600
Benzo(b)fluoranthene	2.700	0.1	0.2700
Benzo(k)fluoranthene	0.930	0.01	0.0093
Chrysene	2.100	0.001	0.0021
Dibenz(a,h)anthracene	0.370	1.0	0.3700
Indeno(1,2,3-cd)pyrene	1.300	0.1	0.1300

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 2.9

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 8 (6-2)
 Sample Date 04/15/2019 14:55
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.540	1.0	0.5400
Benzo(a)anthracene	0.440	0.1	0.0440
Benzo(b)fluoranthene	0.730	0.1	0.0730
Benzo(k)fluoranthene	0.280	0.01	0.0028
Chrysene	0.580	0.001	0.0006
Dibenz(a,h)anthracene	0.110	1.0	0.1100
Indeno(1,2,3-cd)pyrene	0.380	0.1	0.0380

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.8

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 9 (0-6)
 Sample Date 04/15/2019 11:23
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.440	1.0	0.4400
Benzo(a)anthracene	0.420	0.1	0.0420
Benzo(b)fluoranthene	0.620	0.1	0.0620
Benzo(k)fluoranthene	0.240	0.01	0.0024
Chrysene	0.530	0.001	0.0005
Dibenz(a,h)anthracene	0.094	1.0	0.0940
Indeno(1,2,3-cd)pyrene	0.310	0.1	0.0310

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.7

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 9 (6-2)
 Sample Date 04/15/2019 11:23
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a “J”, “T” or “I” qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the “J” qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the “U” qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the “T” qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the “I” qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the “M” qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.066	1.0	0.0660
Benzo(a)anthracene	0.070	0.1	0.0070
Benzo(b)fluoranthene	0.100	0.1	0.0100
Benzo(k)fluoranthene	0.042	0.01	0.0004
Chrysene	0.090	0.001	0.0001
Dibenz(a,h)anthracene	0.015	1.0	0.0145
Indeno(1,2,3-cd)pyrene	0.049	0.1	0.0049

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.1

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 10 (0-6)
 Sample Date 04/15/2019 10:35
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.290	1.0	0.2900
Benzo(a)anthracene	0.280	0.1	0.0280
Benzo(b)fluoranthene	0.430	0.1	0.0430
Benzo(k)fluoranthene	0.160	0.01	0.0016
Chrysene	0.340	0.001	0.0003
Dibenz(a,h)anthracene	0.062	1.0	0.0620
Indeno(1,2,3-cd)pyrene	0.210	0.1	0.0210

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.4

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 10 (6-2)
 Sample Date 04/15/2019 10:35
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.120	1.0	0.1200
Benzo(a)anthracene	0.110	0.1	0.0110
Benzo(b)fluoranthene	0.170	0.1	0.0170
Benzo(k)fluoranthene	0.091	0.01	0.0009
Chrysene	0.150	0.001	0.0002
Dibenz(a,h)anthracene	0.015	1.0	0.0145
Indeno(1,2,3-cd)pyrene	0.087	0.1	0.0087

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-11 (0-6")

Sample Date 04/17/2019 14:02

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	1.000	1.0	1.0000
Benzo(a)anthracene	0.950	0.1	0.0950
Benzo(b)fluoranthene	1.300	0.1	0.1300
Benzo(k)fluoranthene	0.590	0.01	0.0059
Chrysene	0.900	0.001	0.0009
Dibenz(a,h)anthracene	0.180	1.0	0.1800
Indeno(1,2,3-cd)pyrene	0.630	0.1	0.0630

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.5

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-11 (6"-2')

Sample Date 04/17/2019 14:02

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.710	1.0	0.7100
Benzo(a)anthracene	0.670	0.1	0.0670
Benzo(b)fluoranthene	0.930	0.1	0.0930
Benzo(k)fluoranthene	0.440	0.01	0.0044
Chrysene	0.600	0.001	0.0006
Dibenz(a,h)anthracene	0.130	1.0	0.1300
Indeno(1,2,3-cd)pyrene	0.440	0.1	0.0440

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 1.0

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

 Soil Sample No. SBC-12 (0-6")
 Sample Date 04/17/2019 15:02
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.200	1.0	0.2000
Benzo(a)anthracene	0.190	0.1	0.0190
Benzo(b)fluoranthene	0.270	0.1	0.0270
Benzo(k)fluoranthene	0.120	0.01	0.0012
Chrysene	0.180	0.001	0.0002
Dibenz(a,h)anthracene	0.038	1.0	0.0380
Indeno(1,2,3-cd)pyrene	0.130	0.1	0.0130

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.3

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse

Location: _____

Facility/Site ID No.: _____

Soil Sample No. SBC-12 (6"-2')

Sample Date 04/17/2019 15:02

Location: _____

Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.220	1.0	0.2200
Benzo(a)anthracene	0.210	0.1	0.0210
Benzo(b)fluoranthene	0.300	0.1	0.0300
Benzo(k)fluoranthene	0.120	0.01	0.0012
Chrysene	0.180	0.001	0.0002
Dibenz(a,h)anthracene	0.048	1.0	0.0480
Indeno(1,2,3-cd)pyrene	0.150	0.1	0.0150

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.3

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 13 (0-6)
 Sample Date 04/15/2019 14:09
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.450	1.0	0.4500
Benzo(a)anthracene	0.400	0.1	0.0400
Benzo(b)fluoranthene	0.620	0.1	0.0620
Benzo(k)fluoranthene	0.220	0.01	0.0022
Chrysene	0.480	0.001	0.0005
Dibenz(a,h)anthracene	0.080	1.0	0.0800
Indeno(1,2,3-cd)pyrene	0.270	0.1	0.0270

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.7

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 13 (6-2)
 Sample Date 04/15/2019 14:09
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	1.800	1.0	1.8000
Benzo(a)anthracene	2.000	0.1	0.2000
Benzo(b)fluoranthene	2.300	0.1	0.2300
Benzo(k)fluoranthene	0.890	0.01	0.0089
Chrysene	2.200	0.001	0.0022
Dibenz(a,h)anthracene	0.280	1.0	0.2800
Indeno(1,2,3-cd)pyrene	1.000	0.1	0.1000

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 2.6

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 14 (0-6)
 Sample Date 04/15/2019 12:51
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.160	1.0	0.1600
Benzo(a)anthracene	0.140	0.1	0.0140
Benzo(b)fluoranthene	0.230	0.1	0.0230
Benzo(k)fluoranthene	0.091	0.01	0.0009
Chrysene	0.180	0.001	0.0002
Dibenz(a,h)anthracene	0.028	1.0	0.0280
Indeno(1,2,3-cd)pyrene	0.097	0.1	0.0097

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 14 (6-2)
 Sample Date 04/15/2019 12:51
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.140	1.0	0.1400
Benzo(a)anthracene	0.088	0.1	0.0088
Benzo(b)fluoranthene	0.180	0.1	0.0180
Benzo(k)fluoranthene	0.083	0.01	0.0008
Chrysene	0.130	0.001	0.0001
Dibenz(a,h)anthracene	0.027	1.0	0.0270
Indeno(1,2,3-cd)pyrene	0.088	0.1	0.0088

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.2

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____

Soil Sample No. SBC - 15 (0-6)
 Sample Date 04/15/2019 12:10
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.380	1.0	0.3800
Benzo(a)anthracene	0.370	0.1	0.0370
Benzo(b)fluoranthene	0.530	0.1	0.0530
Benzo(k)fluoranthene	0.210	0.01	0.0021
Chrysene	0.420	0.001	0.0004
Dibenz(a,h)anthracene	0.072	1.0	0.0720
Indeno(1,2,3-cd)pyrene	0.220	0.1	0.0220

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.6

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Future Courthouse
 Location: _____
 Facility/Site ID No.: _____
 Soil Sample No. SBC - 15 (6-2)
 Sample Date 04/15/2019 12:10
 Location: _____
 Depth (ft): _____

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.390	1.0	0.3900
Benzo(a)anthracene	0.430	0.1	0.0430
Benzo(b)fluoranthene	0.520	0.1	0.0520
Benzo(k)fluoranthene	0.200	0.01	0.0020
Chrysene	0.470	0.001	0.0005
Dibenz(a,h)anthracene	0.067	1.0	0.0670
Indeno(1,2,3-cd)pyrene	0.220	0.1	0.0220

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.6

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
e MDL but < PQL	Estimated	I	reported (estimated) value
e MDL but < PQL	PQL	M	1/2 reported value

APPENDIX F

May 13, 2019

Meike de Vringer
Smart-Sciences
330 SW 27th Avenue
Suite 504
Miami, FL 33135

RE: Project: Future Courthouse
Pace Project No.: 35465833

Dear Meike Vringer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Gisele Colbert, Smart-Sciences
Anthony Larenas, Arcadis
Patrick O'Connell, Arcadis
Andrea Orozco, Smart-Sciences
Stephanie Pilar, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Future Courthouse
Pace Project No.: 35465833

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Future Courthouse

Pace Project No.: 35465833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35465833001	CHMW-01	Water	05/03/19 10:23	05/03/19 16:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Future Courthouse

Pace Project No.: 35465833

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35465833001	CHMW-01	FL-PRO	RJR	3	PASI-O
		EPA 6010	JWP	4	PASI-O
		EPA 8270 by SIM	MMG	20	PASI-O
		EPA 8270	CB1	22	PASI-O
		EPA 8260	SK1	70	PASI-O
		EPA 350.1	MAJ	1	PASI-O
		EPA 353.2	CLL	1	PASI-O

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SUMMARY OF DETECTION

Project: Future Courthouse

Pace Project No.: 35465833

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35465833001	CHMW-01					
EPA 6010	Arsenic	37.0	ug/L	10.0	05/04/19 21:33	
EPA 8260	Acetone	6.8 I	ug/L	20.0	05/06/19 00:20	
EPA 350.1	Nitrogen, Ammonia	0.069	mg/L	0.050	05/07/19 16:27	
EPA 353.2	Nitrogen, Nitrate	0.23	mg/L	0.050	05/04/19 06:23	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35465833

Sample: CHMW-01 **Lab ID: 35465833001** Collected: 05/03/19 10:23 Received: 05/03/19 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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FL-PRO Water, Low Volume

Analytical Method: FL-PRO Preparation Method: EPA 3510

Petroleum Range Organics	0.80 U	mg/L	1.0	0.80	1	05/06/19 13:40	05/07/19 16:39		
Surrogates									
o-Terphenyl (S)	88	%	66-139		1	05/06/19 13:40	05/07/19 16:39	84-15-1	
N-Pentatriacontane (S)	95	%	42-159		1	05/06/19 13:40	05/07/19 16:39	630-07-09	

6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Arsenic	37.0	ug/L	10.0	7.1	1	05/04/19 04:50	05/04/19 21:33	7440-38-2	
Cadmium	0.33 U	ug/L	1.0	0.33	1	05/04/19 04:50	05/04/19 21:33	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	05/04/19 04:50	05/04/19 21:33	7440-47-3	
Lead	4.6 U	ug/L	10.0	4.6	1	05/04/19 04:50	05/04/19 21:33	7439-92-1	

8270 MSSV PAHLV by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Acenaphthene	0.040 U	ug/L	0.50	0.040	1	05/08/19 10:15	05/08/19 14:22	83-32-9	
Acenaphthylene	0.030 U	ug/L	0.50	0.030	1	05/08/19 10:15	05/08/19 14:22	208-96-8	
Anthracene	0.043 U	ug/L	0.50	0.043	1	05/08/19 10:15	05/08/19 14:22	120-12-7	
Benzo(a)anthracene	0.055 U	ug/L	0.10	0.055	1	05/08/19 10:15	05/08/19 14:22	56-55-3	
Benzo(a)pyrene	0.12 U	ug/L	0.20	0.12	1	05/08/19 10:15	05/08/19 14:22	50-32-8	
Benzo(b)fluoranthene	0.027 U	ug/L	0.10	0.027	1	05/08/19 10:15	05/08/19 14:22	205-99-2	
Benzo(g,h,i)perylene	0.15 U	ug/L	0.50	0.15	1	05/08/19 10:15	05/08/19 14:22	191-24-2	
Benzo(k)fluoranthene	0.16 U	ug/L	0.50	0.16	1	05/08/19 10:15	05/08/19 14:22	207-08-9	
Chrysene	0.026 U	ug/L	0.50	0.026	1	05/08/19 10:15	05/08/19 14:22	218-01-9	
Dibenz(a,h)anthracene	0.13 U	ug/L	0.15	0.13	1	05/08/19 10:15	05/08/19 14:22	53-70-3	
Fluoranthene	0.018 U	ug/L	0.50	0.018	1	05/08/19 10:15	05/08/19 14:22	206-44-0	
Fluorene	0.088 U	ug/L	0.50	0.088	1	05/08/19 10:15	05/08/19 14:22	86-73-7	
Indeno(1,2,3-cd)pyrene	0.12 U	ug/L	0.15	0.12	1	05/08/19 10:15	05/08/19 14:22	193-39-5	
1-Methylnaphthalene	0.19 U	ug/L	2.0	0.19	1	05/08/19 10:15	05/08/19 14:22	90-12-0	
2-Methylnaphthalene	0.68 U	ug/L	2.0	0.68	1	05/08/19 10:15	05/08/19 14:22	91-57-6	
Naphthalene	0.29 U	ug/L	2.0	0.29	1	05/08/19 10:15	05/08/19 14:22	91-20-3	
Phenanthrene	0.16 U	ug/L	0.50	0.16	1	05/08/19 10:15	05/08/19 14:22	85-01-8	
Pyrene	0.032 U	ug/L	0.50	0.032	1	05/08/19 10:15	05/08/19 14:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	33-82		1	05/08/19 10:15	05/08/19 14:22	321-60-8	
p-Terphenyl-d14 (S)	81	%	49-104		1	05/08/19 10:15	05/08/19 14:22	1718-51-0	

8270 MSSV Semivolatile Organic

Analytical Method: EPA 8270 Preparation Method: EPA 3510

4-Chloro-3-methylphenol	7.9 U	ug/L	29.4	7.9	1	05/10/19 17:00	05/11/19 20:14	59-50-7	1p,P1
2-Chlorophenol	2.0 U	ug/L	7.3	2.0	1	05/10/19 17:00	05/11/19 20:14	95-57-8	1p,P1
2,4-Dichlorophenol	0.50 U	ug/L	2.9	0.50	1	05/10/19 17:00	05/11/19 20:14	120-83-2	1p,P1
2,4-Dimethylphenol	1.5 U	ug/L	7.3	1.5	1	05/10/19 17:00	05/11/19 20:14	105-67-9	1p,P1
4,6-Dinitro-2-methylphenol	6.7 U	ug/L	29.4	6.7	1	05/10/19 17:00	05/11/19 20:14	534-52-1	1p,P1
2,4-Dinitrophenol	3.9 U	ug/L	29.4	3.9	1	05/10/19 17:00	05/11/19 20:14	51-28-5	1p,P1
2-Methylphenol(o-Cresol)	0.44 U	ug/L	7.3	0.44	1	05/10/19 17:00	05/11/19 20:14	95-48-7	1p,P1
3&4-Methylphenol(m&p Cresol)	0.32 U	ug/L	14.7	0.32	1	05/10/19 17:00	05/11/19 20:14		1p,P1
2-Nitrophenol	2.0 U	ug/L	7.3	2.0	1	05/10/19 17:00	05/11/19 20:14	88-75-5	1p,P1
4-Nitrophenol	2.9 U	ug/L	29.4	2.9	1	05/10/19 17:00	05/11/19 20:14	100-02-7	1p,P1
Pentachlorophenol	2.4 U	ug/L	29.4	2.4	1	05/10/19 17:00	05/11/19 20:14	87-86-5	1p,P1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse

Pace Project No.: 35465833

Sample: CHMW-01 Lab ID: 35465833001 Collected: 05/03/19 10:23 Received: 05/03/19 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Phenol	0.92 U	ug/L	7.3	0.92	1	05/10/19 17:00	05/11/19 20:14	108-95-2	1p,P1
2,3,4,6-Tetrachlorophenol	1.5 U	ug/L	7.3	1.5	1	05/10/19 17:00	05/11/19 20:14	58-90-2	1p,P1
2,3,5,6-Tetrachlorophenol	2.7 U	ug/L	13.2	2.7	1	05/10/19 17:00	05/11/19 20:14	935-95-5	1p,N2, P1
2,4,5-Trichlorophenol	0.34 U	ug/L	5.9	0.34	1	05/10/19 17:00	05/11/19 20:14	95-95-4	1p,P1
2,4,6-Trichlorophenol	0.53 U	ug/L	2.9	0.53	1	05/10/19 17:00	05/11/19 20:14	88-06-2	1p,P1
Surrogates									
Nitrobenzene-d5 (S)	26	%	10-94		1	05/10/19 17:00	05/11/19 20:14	4165-60-0	
2-Fluorobiphenyl (S)	25	%	10-96		1	05/10/19 17:00	05/11/19 20:14	321-60-8	
p-Terphenyl-d14 (S)	66	%	24-129		1	05/10/19 17:00	05/11/19 20:14	1718-51-0	
Phenol-d5 (S)	14	%	10-35		1	05/10/19 17:00	05/11/19 20:14	4165-62-2	
2-Fluorophenol (S)	17	%	10-55		1	05/10/19 17:00	05/11/19 20:14	367-12-4	
2,4,6-Tribromophenol (S)	36	%	10-126		1	05/10/19 17:00	05/11/19 20:14	118-79-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	0.32 U	ug/L	1.0	0.32	1		05/06/19 00:20	630-20-6	
1,1,1-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		05/06/19 00:20	71-55-6	
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	0.50	0.20	1		05/06/19 00:20	79-34-5	
1,1,2-Trichloroethane	0.30 U	ug/L	1.0	0.30	1		05/06/19 00:20	79-00-5	
1,1-Dichloroethane	0.34 U	ug/L	1.0	0.34	1		05/06/19 00:20	75-34-3	
1,1-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		05/06/19 00:20	75-35-4	
1,1-Dichloropropene	0.31 U	ug/L	1.0	0.31	1		05/06/19 00:20	563-58-6	
1,2,3-Trichlorobenzene	0.34 U	ug/L	1.0	0.34	1		05/06/19 00:20	87-61-6	
1,2,3-Trichloropropane	1.1 U	ug/L	2.0	1.1	1		05/06/19 00:20	96-18-4	
1,2,3-Trimethylbenzene	0.17 U	ug/L	1.0	0.17	1		05/06/19 00:20	526-73-8	
1,2,4-Trichlorobenzene	0.32 U	ug/L	1.0	0.32	1		05/06/19 00:20	120-82-1	
1,2,4-Trimethylbenzene	0.24 U	ug/L	1.0	0.24	1		05/06/19 00:20	95-63-6	
1,2-Dichlorobenzene	0.29 U	ug/L	1.0	0.29	1		05/06/19 00:20	95-50-1	
1,2-Dichloroethane	0.27 U	ug/L	1.0	0.27	1		05/06/19 00:20	107-06-2	
1,2-Dichloropropane	0.23 U	ug/L	1.0	0.23	1		05/06/19 00:20	78-87-5	
1,3,5-Trimethylbenzene	0.24 U	ug/L	1.0	0.24	1		05/06/19 00:20	108-67-8	
1,3-Dichlorobenzene	0.33 U	ug/L	1.0	0.33	1		05/06/19 00:20	541-73-1	
1,3-Dichloropropane	0.26 U	ug/L	1.0	0.26	1		05/06/19 00:20	142-28-9	
1,4-Dichlorobenzene	0.28 U	ug/L	1.0	0.28	1		05/06/19 00:20	106-46-7	
2,2-Dichloropropane	0.59 U	ug/L	1.0	0.59	1		05/06/19 00:20	594-20-7	
2-Butanone (MEK)	7.5 U	ug/L	10.0	7.5	1		05/06/19 00:20	78-93-3	
2-Chloroethylvinyl ether	1.4 U	ug/L	40.0	1.4	1		05/06/19 00:20	110-75-8	J(v2),c2
2-Chlorotoluene	0.28 U	ug/L	1.0	0.28	1		05/06/19 00:20	95-49-8	
2-Hexanone	0.85 U	ug/L	10.0	0.85	1		05/06/19 00:20	591-78-6	
4-Chlorotoluene	0.22 U	ug/L	1.0	0.22	1		05/06/19 00:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	0.32 U	ug/L	10.0	0.32	1		05/06/19 00:20	108-10-1	
Acetone	6.8 I	ug/L	20.0	5.3	1		05/06/19 00:20	67-64-1	
Acetonitrile	24.5 U	ug/L	40.0	24.5	1		05/06/19 00:20	75-05-8	
Benzene	0.30 U	ug/L	1.0	0.30	1		05/06/19 00:20	71-43-2	
Bromobenzene	0.21 U	ug/L	1.0	0.21	1		05/06/19 00:20	108-86-1	
Bromochloromethane	0.37 U	ug/L	1.0	0.37	1		05/06/19 00:20	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35465833

Sample: CHMW-01 Lab ID: 35465833001 Collected: 05/03/19 10:23 Received: 05/03/19 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	0.19 U	ug/L	0.60	0.19	1		05/06/19 00:20	75-27-4	
Bromoform	2.6 U	ug/L	3.0	2.6	1		05/06/19 00:20	75-25-2	
Bromomethane	4.0 U	ug/L	5.0	4.0	1		05/06/19 00:20	74-83-9	
Carbon disulfide	0.45 U	ug/L	10.0	0.45	1		05/06/19 00:20	75-15-0	J(v1)
Carbon tetrachloride	1.1 U	ug/L	3.0	1.1	1		05/06/19 00:20	56-23-5	
Chlorobenzene	0.35 U	ug/L	1.0	0.35	1		05/06/19 00:20	108-90-7	
Chloroethane	3.7 U	ug/L	10.0	3.7	1		05/06/19 00:20	75-00-3	J(L1), J(v1)
Chloroform	0.32 U	ug/L	1.0	0.32	1		05/06/19 00:20	67-66-3	
Chloromethane	0.97 U	ug/L	1.0	0.97	1		05/06/19 00:20	74-87-3	
Dibromochloromethane	0.45 U	ug/L	2.0	0.45	1		05/06/19 00:20	124-48-1	
Dibromomethane	0.68 U	ug/L	2.0	0.68	1		05/06/19 00:20	74-95-3	
Dichlorodifluoromethane	0.26 U	ug/L	1.0	0.26	1		05/06/19 00:20	75-71-8	J(v1)
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		05/06/19 00:20	100-41-4	
Iodomethane	9.3 U	ug/L	10.0	9.3	1		05/06/19 00:20	74-88-4	J(v2)
Isopropylbenzene (Cumene)	0.30 U	ug/L	1.0	0.30	1		05/06/19 00:20	98-82-8	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		05/06/19 00:20	1634-04-4	
Methylene Chloride	2.0 U	ug/L	5.0	2.0	1		05/06/19 00:20	75-09-2	
Styrene	0.26 U	ug/L	1.0	0.26	1		05/06/19 00:20	100-42-5	
Tetrachloroethene	0.38 U	ug/L	1.0	0.38	1		05/06/19 00:20	127-18-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		05/06/19 00:20	108-88-3	
Trichloroethene	0.36 U	ug/L	1.0	0.36	1		05/06/19 00:20	79-01-6	
Trichlorofluoromethane	0.35 U	ug/L	1.0	0.35	1		05/06/19 00:20	75-69-4	
Vinyl acetate	0.19 U	ug/L	10.0	0.19	1		05/06/19 00:20	108-05-4	
Vinyl chloride	0.39 U	ug/L	1.0	0.39	1		05/06/19 00:20	75-01-4	
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		05/06/19 00:20	1330-20-7	
cis-1,2-Dichloroethene	0.27 U	ug/L	1.0	0.27	1		05/06/19 00:20	156-59-2	
cis-1,3-Dichloropropene	0.17 U	ug/L	0.50	0.17	1		05/06/19 00:20	10061-01-5	
m&p-Xylene	2.1 U	ug/L	4.0	2.1	1		05/06/19 00:20	179601-23-1	
n-Butylbenzene	0.20 U	ug/L	1.0	0.20	1		05/06/19 00:20	104-51-8	
n-Propylbenzene	0.37 U	ug/L	1.0	0.37	1		05/06/19 00:20	103-65-1	
o-Xylene	0.27 U	ug/L	1.0	0.27	1		05/06/19 00:20	95-47-6	
p-Isopropyltoluene	0.31 U	ug/L	5.0	0.31	1		05/06/19 00:20	99-87-6	
sec-Butylbenzene	0.17 U	ug/L	1.0	0.17	1		05/06/19 00:20	135-98-8	
tert-Butylbenzene	0.26 U	ug/L	1.0	0.26	1		05/06/19 00:20	98-06-6	
trans-1,2-Dichloroethene	0.23 U	ug/L	1.0	0.23	1		05/06/19 00:20	156-60-5	
trans-1,3-Dichloropropene	0.17 U	ug/L	0.50	0.17	1		05/06/19 00:20	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/06/19 00:20	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/06/19 00:20	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/06/19 00:20	2037-26-5	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.069	mg/L	0.050	0.035	1		05/07/19 16:27	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Future Courthouse
Pace Project No.: 35465833

Sample: CHMW-01 **Lab ID: 35465833001** Collected: 05/03/19 10:23 Received: 05/03/19 16:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.23	mg/L	0.050	0.025	1		05/04/19 06:23	14797-55-8	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536122 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35465833001

METHOD BLANK: 2904602 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	7.1 U	10.0	7.1	05/06/19 10:01	
Cadmium	ug/L	0.33 U	1.0	0.33	05/06/19 10:01	
Chromium	ug/L	1.7 U	5.0	1.7	05/06/19 10:01	
Lead	ug/L	4.6 U	10.0	4.6	05/06/19 10:01	

LABORATORY CONTROL SAMPLE: 2904603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	243	97	80-120	
Cadmium	ug/L	25	25.7	103	80-120	
Chromium	ug/L	250	254	102	80-120	
Lead	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2904604 2904605

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35465599001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	ug/L	28.7	250	250	287	287	103	103	75-125	0	20
Cadmium	ug/L	0.33 U	25	25	26.2	25.7	104	102	75-125	2	20
Chromium	ug/L	1.7 U	250	250	265	274	106	110	75-125	3	20
Lead	ug/L	4.6 U	250	250	259	260	103	103	75-125	0	20

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536267 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35465833001

METHOD BLANK: 2905353 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	05/05/19 20:42	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	05/05/19 20:42	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	05/05/19 20:42	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	05/05/19 20:42	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	05/05/19 20:42	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	05/05/19 20:42	
1,1-Dichloropropene	ug/L	0.31 U	1.0	0.31	05/05/19 20:42	
1,2,3-Trichlorobenzene	ug/L	0.34 U	1.0	0.34	05/05/19 20:42	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	05/05/19 20:42	
1,2,3-Trimethylbenzene	ug/L	0.17 U	1.0	0.17	05/05/19 20:42	
1,2,4-Trichlorobenzene	ug/L	0.32 U	1.0	0.32	05/05/19 20:42	
1,2,4-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	05/05/19 20:42	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	05/05/19 20:42	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	05/05/19 20:42	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	05/05/19 20:42	
1,3,5-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	05/05/19 20:42	
1,3-Dichlorobenzene	ug/L	0.33 U	1.0	0.33	05/05/19 20:42	
1,3-Dichloropropane	ug/L	0.26 U	1.0	0.26	05/05/19 20:42	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	05/05/19 20:42	
2,2-Dichloropropane	ug/L	0.59 U	1.0	0.59	05/05/19 20:42	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	05/05/19 20:42	
2-Chloroethylvinyl ether	ug/L	1.4 U	40.0	1.4	05/05/19 20:42	J(v2)
2-Chlorotoluene	ug/L	0.28 U	1.0	0.28	05/05/19 20:42	
2-Hexanone	ug/L	0.85 U	10.0	0.85	05/05/19 20:42	
4-Chlorotoluene	ug/L	0.22 U	1.0	0.22	05/05/19 20:42	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	05/05/19 20:42	
Acetone	ug/L	5.3 U	20.0	5.3	05/05/19 20:42	
Acetonitrile	ug/L	24.5 U	40.0	24.5	05/05/19 20:42	
Benzene	ug/L	0.30 U	1.0	0.30	05/05/19 20:42	
Bromobenzene	ug/L	0.21 U	1.0	0.21	05/05/19 20:42	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	05/05/19 20:42	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	05/05/19 20:42	
Bromoform	ug/L	2.6 U	3.0	2.6	05/05/19 20:42	
Bromomethane	ug/L	4.0 U	5.0	4.0	05/05/19 20:42	
Carbon disulfide	ug/L	0.45 U	10.0	0.45	05/05/19 20:42	J(v1)
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	05/05/19 20:42	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	05/05/19 20:42	
Chloroethane	ug/L	3.7 U	10.0	3.7	05/05/19 20:42	J(v1)
Chloroform	ug/L	0.32 U	1.0	0.32	05/05/19 20:42	
Chloromethane	ug/L	0.97 U	1.0	0.97	05/05/19 20:42	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	05/05/19 20:42	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

METHOD BLANK: 2905353
Associated Lab Samples: 35465833001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	05/05/19 20:42	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	05/05/19 20:42	
Dibromomethane	ug/L	0.68 U	2.0	0.68	05/05/19 20:42	
Dichlorodifluoromethane	ug/L	0.26 U	1.0	0.26	05/05/19 20:42	J(v1)
Ethylbenzene	ug/L	0.30 U	1.0	0.30	05/05/19 20:42	
Iodomethane	ug/L	9.3 U	10.0	9.3	05/05/19 20:42	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	05/05/19 20:42	
m&p-Xylene	ug/L	2.1 U	4.0	2.1	05/05/19 20:42	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	05/05/19 20:42	
Methylene Chloride	ug/L	2.0 U	5.0	2.0	05/05/19 20:42	
n-Butylbenzene	ug/L	0.20 U	1.0	0.20	05/05/19 20:42	
n-Propylbenzene	ug/L	0.37 U	1.0	0.37	05/05/19 20:42	
o-Xylene	ug/L	0.27 U	1.0	0.27	05/05/19 20:42	
p-Isopropyltoluene	ug/L	0.31 U	5.0	0.31	05/05/19 20:42	
sec-Butylbenzene	ug/L	0.17 U	1.0	0.17	05/05/19 20:42	
Styrene	ug/L	0.26 U	1.0	0.26	05/05/19 20:42	
tert-Butylbenzene	ug/L	0.26 U	1.0	0.26	05/05/19 20:42	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	05/05/19 20:42	
Toluene	ug/L	0.33 U	1.0	0.33	05/05/19 20:42	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	05/05/19 20:42	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	05/05/19 20:42	
Trichloroethene	ug/L	0.36 U	1.0	0.36	05/05/19 20:42	
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	05/05/19 20:42	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	05/05/19 20:42	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	05/05/19 20:42	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	05/05/19 20:42	
1,2-Dichloroethane-d4 (S)	%	97	70-130		05/05/19 20:42	
4-Bromofluorobenzene (S)	%	99	70-130		05/05/19 20:42	
Toluene-d8 (S)	%	100	70-130		05/05/19 20:42	

LABORATORY CONTROL SAMPLE: 2905354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.7	109	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	68-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethene	ug/L	20	18.8	94	66-133	
1,1-Dichloropropene	ug/L	20	19.9	100	70-130	
1,2,3-Trichlorobenzene	ug/L	20	21.5	108	64-126	
1,2,3-Trichloropropane	ug/L	20	19.3	97	62-127	
1,2,3-Trimethylbenzene	ug/L	20	21.8	109	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.9	99	63-124	

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QUALITY CONTROL DATA

Project: Future Courthouse

Pace Project No.: 35465833

LABORATORY CONTROL SAMPLE: 2905354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.3	102	70-130	
1,2-Dichlorobenzene	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane	ug/L	20	17.3	87	70-130	
1,2-Dichloropropane	ug/L	20	19.2	96	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.6	98	70-130	
1,3-Dichlorobenzene	ug/L	20	18.7	93	70-130	
1,3-Dichloropropane	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-130	
2,2-Dichloropropane	ug/L	20	20.8	104	59-133	
2-Butanone (MEK)	ug/L	40	44.5	111	47-143	
2-Chloroethylvinyl ether	ug/L	20	11.1	55	41-140	J(v3)
2-Chlorotoluene	ug/L	20	19.0	95	70-130	
2-Hexanone	ug/L	40	41.9	105	48-145	
4-Chlorotoluene	ug/L	20	19.4	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.4	101	57-132	
Acetone	ug/L	40	44.6	112	46-148	
Acetonitrile	ug/L	200	226	113	33-175	
Benzene	ug/L	20	19.2	96	70-130	
Bromobenzene	ug/L	20	19.0	95	70-130	
Bromochloromethane	ug/L	20	18.1	90	70-130	
Bromodichloromethane	ug/L	20	21.1	106	70-130	
Bromoform	ug/L	20	18.8	94	49-126	
Bromomethane	ug/L	20	19.2	96	10-165	
Carbon disulfide	ug/L	20	24.6	123	60-141	J(v1)
Carbon tetrachloride	ug/L	20	17.4	87	63-126	
Chlorobenzene	ug/L	20	18.4	92	70-130	
Chloroethane	ug/L	20	32.5	163	71-142	J(L1),J(v1)
Chloroform	ug/L	20	18.7	94	70-130	
Chloromethane	ug/L	20	22.1	111	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.7	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	18.4	92	62-118	
Dibromomethane	ug/L	20	19.1	96	70-130	
Dichlorodifluoromethane	ug/L	20	24.5	123	47-150	J(v1)
Ethylbenzene	ug/L	20	19.5	98	70-130	
Iodomethane	ug/L	40	13.6	34	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	20	20.3	102	70-130	
m&p-Xylene	ug/L	40	40.3	101	70-130	
Methyl-tert-butyl ether	ug/L	20	22.6	113	64-124	
Methylene Chloride	ug/L	20	18.2	91	65-136	
n-Butylbenzene	ug/L	20	20.2	101	70-130	
n-Propylbenzene	ug/L	20	19.5	98	70-130	
o-Xylene	ug/L	20	19.8	99	70-130	
p-Isopropyltoluene	ug/L	20	19.5	98	70-130	
sec-Butylbenzene	ug/L	20	20.6	103	70-130	
Styrene	ug/L	20	19.7	99	70-130	
tert-Butylbenzene	ug/L	20	20.9	105	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

LABORATORY CONTROL SAMPLE: 2905354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.7	94	64-134	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.3	86	65-121	
Trichloroethene	ug/L	20	18.5	93	70-130	
Trichlorofluoromethane	ug/L	20	20.7	104	65-135	
Vinyl acetate	ug/L	20	20.7	103	60-144	
Vinyl chloride	ug/L	20	22.4	112	68-131	
Xylene (Total)	ug/L	60	60.0	100	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2905544

Parameter	Units	35465650002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	20.5	103	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	19.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	18.5	92	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	18.9	95	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	19.5	97	66-133	
1,1-Dichloropropene	ug/L	0.31 U	20	19.5	97	70-130	
1,2,3-Trichlorobenzene	ug/L	0.34 U	20	16.6	83	64-126	
1,2,3-Trichloropropane	ug/L	1.1 U	20	15.6	78	62-127	
1,2,3-Trimethylbenzene	ug/L	0.17 U	20	20.9	104	70-130	
1,2,4-Trichlorobenzene	ug/L	0.32 U	20	16.1	80	63-124	
1,2,4-Trimethylbenzene	ug/L	0.24 U	20	19.5	97	70-130	
1,2-Dichlorobenzene	ug/L	0.29 U	20	17.5	88	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	16.5	83	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	18.0	90	70-130	
1,3,5-Trimethylbenzene	ug/L	0.24 U	20	19.0	95	70-130	
1,3-Dichlorobenzene	ug/L	0.33 U	20	18.0	90	70-130	
1,3-Dichloropropane	ug/L	0.26 U	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	17.5	88	70-130	
2,2-Dichloropropane	ug/L	0.59 U	20	17.9	90	59-133	
2-Butanone (MEK)	ug/L	7.5 U	40	37.9	95	47-143	
2-Chloroethylvinyl ether	ug/L	1.4 U	20	1.4 U	0	41-140	J(M1),J(v2)
2-Chlorotoluene	ug/L	0.28 U	20	18.2	91	70-130	
2-Hexanone	ug/L	0.85 U	40	34.0	85	48-145	
4-Chlorotoluene	ug/L	0.22 U	20	18.3	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	33.3	83	57-132	
Acetone	ug/L	5.3 U	40	40.3	101	46-148	
Acetonitrile	ug/L	24.5 U	200	201	101	33-175	
Benzene	ug/L	0.30 U	20	18.6	93	70-130	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

MATRIX SPIKE SAMPLE:	2905544	35465650002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromobenzene	ug/L	0.21 U	20	18.2	91	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.0	90	70-130	
Bromodichloromethane	ug/L	0.19 U	20	19.9	100	70-130	
Bromoform	ug/L	2.6 U	20	16.5	82	49-126	
Bromomethane	ug/L	4.0 U	20	6.0	30	10-165	
Carbon disulfide	ug/L	0.45 U	20	24.8	123	60-141	J(v1)
Carbon tetrachloride	ug/L	1.1 U	20	17.2	86	63-126	
Chlorobenzene	ug/L	0.35 U	20	18.0	90	70-130	
Chloroethane	ug/L	3.7 U	20	37.3	187	71-142	J(M0),J(v1)
Chloroform	ug/L	0.32 U	20	18.5	93	70-130	
Chloromethane	ug/L	0.97 U	20	19.9	100	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	14.4	72	70-130	
Dibromochloromethane	ug/L	0.45 U	20	17.1	85	62-118	
Dibromomethane	ug/L	0.68 U	20	18.2	91	70-130	
Dichlorodifluoromethane	ug/L	0.26 U	20	22.9	114	47-150	J(v1)
Ethylbenzene	ug/L	0.30 U	20	18.9	95	70-130	
Iodomethane	ug/L	9.3 U	40	18.3	46	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	19.6	98	70-130	
m&p-Xylene	ug/L	2.1 U	40	38.6	97	70-130	
Methyl-tert-butyl ether	ug/L	0.51 U	20	19.7	99	64-124	
Methylene Chloride	ug/L	2.0 U	20	17.4	87	65-136	
n-Butylbenzene	ug/L	0.20 U	20	19.0	95	70-130	
n-Propylbenzene	ug/L	0.37 U	20	19.3	97	70-130	
o-Xylene	ug/L	0.27 U	20	18.7	93	70-130	
p-Isopropyltoluene	ug/L	0.31 U	20	18.4	92	70-130	
sec-Butylbenzene	ug/L	0.17 U	20	19.9	100	70-130	
Styrene	ug/L	0.26 U	20	18.4	92	70-130	
tert-Butylbenzene	ug/L	0.26 U	20	20.2	101	70-130	
Tetrachloroethene	ug/L	0.38 U	20	18.7	93	64-134	
Toluene	ug/L	0.33 U	20	19.0	95	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	18.4	92	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	15.1	76	65-121	
Trichloroethene	ug/L	0.36 U	20	24.0	120	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	21.8	109	65-135	
Vinyl acetate	ug/L	0.19 U	20	16.9	85	60-144	
Vinyl chloride	ug/L	0.39 U	20	20.3	102	68-131	
Xylene (Total)	ug/L	2.1 U	60	57.3	96	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

SAMPLE DUPLICATE: 2905543

Parameter	Units	35465833001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	
1,1-Dichloropropene	ug/L	0.31 U	0.31 U		40	
1,2,3-Trichlorobenzene	ug/L	0.34 U	0.34 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2,3-Trimethylbenzene	ug/L	0.17 U	0.17 U		40	
1,2,4-Trichlorobenzene	ug/L	0.32 U	0.32 U		40	
1,2,4-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,3-Dichlorobenzene	ug/L	0.33 U	0.33 U		40	
1,3-Dichloropropane	ug/L	0.26 U	0.26 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2,2-Dichloropropane	ug/L	0.59 U	0.59 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Chloroethylvinyl ether	ug/L	1.4 U	1.4 U		40	J(v2)
2-Chlorotoluene	ug/L	0.28 U	0.28 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Chlorotoluene	ug/L	0.22 U	0.22 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	6.8 I	7.3 I		40	
Acetonitrile	ug/L	24.5 U	24.5 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromobenzene	ug/L	0.21 U	0.21 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	
Carbon disulfide	ug/L	0.45 U	0.45 U		40	J(v1)
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	J(v1)
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Dichlorodifluoromethane	ug/L	0.26 U	0.26 U		40	J(v1)
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	J(v2)

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QUALITY CONTROL DATA

Project: Future Courthouse

Pace Project No.: 35465833

SAMPLE DUPLICATE: 2905543

Parameter	Units	35465833001 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	0.30 U	0.30 U		40	
m&p-Xylene	ug/L	2.1 U	2.1 U		40	
Methyl-tert-butyl ether	ug/L	0.51 U	0.51 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
n-Butylbenzene	ug/L	0.20 U	0.20 U		40	
n-Propylbenzene	ug/L	0.37 U	0.37 U		40	
o-Xylene	ug/L	0.27 U	0.27 U		40	
p-Isopropyltoluene	ug/L	0.31 U	0.31 U		40	
sec-Butylbenzene	ug/L	0.17 U	0.17 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
tert-Butylbenzene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	98	97		40	
4-Bromofluorobenzene (S)	%	100	99		40	
Toluene-d8 (S)	%	101	101		40	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536806 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35465833001

METHOD BLANK: 2908118 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	05/08/19 13:37	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	05/08/19 13:37	
Acenaphthene	ug/L	0.040 U	0.50	0.040	05/08/19 13:37	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	05/08/19 13:37	
Anthracene	ug/L	0.043 U	0.50	0.043	05/08/19 13:37	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	05/08/19 13:37	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	05/08/19 13:37	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	05/08/19 13:37	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	05/08/19 13:37	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	05/08/19 13:37	
Chrysene	ug/L	0.026 U	0.50	0.026	05/08/19 13:37	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	05/08/19 13:37	
Fluoranthene	ug/L	0.018 U	0.50	0.018	05/08/19 13:37	
Fluorene	ug/L	0.088 U	0.50	0.088	05/08/19 13:37	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	05/08/19 13:37	
Naphthalene	ug/L	0.29 U	2.0	0.29	05/08/19 13:37	
Phenanthrene	ug/L	0.16 U	0.50	0.16	05/08/19 13:37	
Pyrene	ug/L	0.032 U	0.50	0.032	05/08/19 13:37	
2-Fluorobiphenyl (S)	%	66	33-82		05/08/19 13:37	
p-Terphenyl-d14 (S)	%	90	49-104		05/08/19 13:37	

LABORATORY CONTROL SAMPLE: 2908119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.0	60	40-96	
2-Methylnaphthalene	ug/L	5	2.9	58	40-94	
Acenaphthene	ug/L	5	3.1	61	42-96	
Acenaphthylene	ug/L	5	2.8	57	39-90	
Anthracene	ug/L	5	3.3	67	46-109	
Benzo(a)anthracene	ug/L	5	3.7	75	50-116	
Benzo(a)pyrene	ug/L	5	3.5	69	48-117	
Benzo(b)fluoranthene	ug/L	5	3.6	72	51-124	
Benzo(g,h,i)perylene	ug/L	5	3.6	72	47-121	
Benzo(k)fluoranthene	ug/L	5	3.7	74	50-125	
Chrysene	ug/L	5	3.9	78	53-122	
Dibenz(a,h)anthracene	ug/L	5	3.5	71	45-123	
Fluoranthene	ug/L	5	3.7	73	52-119	
Fluorene	ug/L	5	3.2	63	44-100	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.5	71	46-121	
Naphthalene	ug/L	5	2.9	58	40-91	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

LABORATORY CONTROL SAMPLE: 2908119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	3.3	67	47-111	
Pyrene	ug/L	5	3.7	73	51-120	
2-Fluorobiphenyl (S)	%			65	33-82	
p-Terphenyl-d14 (S)	%			82	49-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2908897 2908898

Parameter	Units	35465833001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	U	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
1-Methylnaphthalene	ug/L	0.19	U	5	5	3.0	2.7	59	54	40-96	8	40			
2-Methylnaphthalene	ug/L	0.68	U	5	5	2.9	2.7	58	54	40-94	8	40			
Acenaphthene	ug/L	0.040	U	5	5	3.0	2.8	61	56	42-96	7	40			
Acenaphthylene	ug/L	0.030	U	5	5	2.9	2.6	58	52	39-90	11	40			
Anthracene	ug/L	0.043	U	5	5	3.5	3.0	69	59	46-109	16	40			
Benzo(a)anthracene	ug/L	0.055	U	5	5	3.9	3.3	77	66	50-116	16	40			
Benzo(a)pyrene	ug/L	0.12	U	5	5	3.7	3.0	73	61	48-117	19	40			
Benzo(b)fluoranthene	ug/L	0.027	U	5	5	3.6	3.1	72	63	51-124	14	40			
Benzo(g,h,i)perylene	ug/L	0.15	U	5	5	3.7	3.1	73	63	47-121	15	40			
Benzo(k)fluoranthene	ug/L	0.16	U	5	5	3.8	3.3	77	65	50-125	16	40			
Chrysene	ug/L	0.026	U	5	5	4.0	3.4	80	68	53-122	16	40			
Dibenz(a,h)anthracene	ug/L	0.13	U	5	5	3.6	3.1	72	62	45-123	16	40			
Fluoranthene	ug/L	0.018	U	5	5	3.7	3.2	75	65	52-119	14	40			
Fluorene	ug/L	0.088	U	5	5	3.1	2.9	62	58	44-100	8	40			
Indeno(1,2,3-cd)pyrene	ug/L	0.12	U	5	5	3.6	3.1	72	62	46-121	15	40			
Naphthalene	ug/L	0.29	U	5	5	2.8	2.6	56	51	40-91	10	40			
Phenanthrene	ug/L	0.16	U	5	5	3.4	3.0	67	60	47-111	12	40			
Pyrene	ug/L	0.032	U	5	5	3.8	3.2	75	65	51-120	15	40			
2-Fluorobiphenyl (S)	%							62	58	33-82					
p-Terphenyl-d14 (S)	%							81	70	49-104					

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 537664 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Full List MSSV
Associated Lab Samples: 35465833001

METHOD BLANK: 2913551 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	5.0	1.0	05/11/19 16:54	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	9.0	1.9	05/11/19 16:54	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	4.0	0.23	05/11/19 16:54	
2,4,6-Trichlorophenol	ug/L	0.36 U	2.0	0.36	05/11/19 16:54	
2,4-Dichlorophenol	ug/L	0.34 U	2.0	0.34	05/11/19 16:54	
2,4-Dimethylphenol	ug/L	1.0 U	5.0	1.0	05/11/19 16:54	
2,4-Dinitrophenol	ug/L	2.6 U	20.0	2.6	05/11/19 16:54	
2-Chlorophenol	ug/L	1.4 U	5.0	1.4	05/11/19 16:54	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	5.0	0.30	05/11/19 16:54	
2-Nitrophenol	ug/L	1.4 U	5.0	1.4	05/11/19 16:54	
3&4-Methylphenol(m&p Cresol)	ug/L	0.22 U	10.0	0.22	05/11/19 16:54	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	20.0	4.6	05/11/19 16:54	
4-Chloro-3-methylphenol	ug/L	5.4 U	20.0	5.4	05/11/19 16:54	
4-Nitrophenol	ug/L	2.0 U	20.0	2.0	05/11/19 16:54	
Pentachlorophenol	ug/L	1.6 U	20.0	1.6	05/11/19 16:54	
Phenol	ug/L	0.63 U	5.0	0.63	05/11/19 16:54	
2,4,6-Tribromophenol (S)	%	72	10-126		05/11/19 16:54	
2-Fluorobiphenyl (S)	%	53	10-96		05/11/19 16:54	
2-Fluorophenol (S)	%	32	10-55		05/11/19 16:54	
Nitrobenzene-d5 (S)	%	56	10-94		05/11/19 16:54	
p-Terphenyl-d14 (S)	%	94	24-129		05/11/19 16:54	
Phenol-d5 (S)	%	24	10-35		05/11/19 16:54	

LABORATORY CONTROL SAMPLE & LCSD: 2913552 2913886

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,3,4,6-Tetrachlorophenol	ug/L	50	39.0	39.0	78	78	56-108	0	40	
2,3,5,6-Tetrachlorophenol	ug/L	50	38.4	37.9	77	76	57-108	1	40	N2
2,4,5-Trichlorophenol	ug/L	50	34.6	33.7	69	67	46-111	3	40	
2,4,6-Trichlorophenol	ug/L	50	32.4	30.6	65	61	45-108	6	40	
2,4-Dichlorophenol	ug/L	50	29.5	28.1	59	56	46-94	5	40	
2,4-Dimethylphenol	ug/L	50	29.0	27.7	58	55	44-92	4	40	
2,4-Dinitrophenol	ug/L	50	34.6	35.1	69	70	49-123	1	40	
2-Chlorophenol	ug/L	50	26.7	25.0	53	50	35-83	6	40	
2-Methylphenol(o-Cresol)	ug/L	50	26.4	25.4	53	51	29-84	4	40	
2-Nitrophenol	ug/L	50	27.9	26.1	56	52	43-96	7	40	
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.1	24.6	50	49	26-82	2	40	
4,6-Dinitro-2-methylphenol	ug/L	50	48.7	48.9	97	98	51-131	0	40	
4-Chloro-3-methylphenol	ug/L	50	32.4	31.5	65	63	51-98	3	40	
4-Nitrophenol	ug/L	50	19.0 I	20.1	38	40	10-61		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

Parameter	Units	2913552		2913886			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Pentachlorophenol	ug/L	50	40.1	39.5	80	79	45-127	2	40	
Phenol	ug/L	50	13.0	12.4	26	25	10-44	4	40	
2,4,6-Tribromophenol (S)	%				76	78	10-126			
2-Fluorobiphenyl (S)	%				56	54	10-96			
2-Fluorophenol (S)	%				33	30	10-55			
Nitrobenzene-d5 (S)	%				56	52	10-94			
p-Terphenyl-d14 (S)	%				96	99	24-129			
Phenol-d5 (S)	%				25	23	10-35			

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536151 Analysis Method: FL-PRO
QC Batch Method: EPA 3510 Analysis Description: FL-PRO Water Low Volume
Associated Lab Samples: 35465833001

METHOD BLANK: 2904763 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	05/07/19 05:16	
N-Pentatriacontane (S)	%	74	42-159		05/07/19 05:16	
o-Terphenyl (S)	%	79	66-139		05/07/19 05:16	

LABORATORY CONTROL SAMPLE: 2904764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	3.9	78	66-119	
N-Pentatriacontane (S)	%			92	42-159	
o-Terphenyl (S)	%			86	66-139	

MATRIX SPIKE SAMPLE: 2904785

Parameter	Units	35465399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	0.78 U	4.7	3.4	69	65-123	
N-Pentatriacontane (S)	%				85	42-159	
o-Terphenyl (S)	%				83	66-139	

SAMPLE DUPLICATE: 2904786

Parameter	Units	35465449001 Result	Dup Result	RPD	Max RPD	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	0.77 U		20	
N-Pentatriacontane (S)	%	82	86			
o-Terphenyl (S)	%	84	89			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536614 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35465833001

METHOD BLANK: 2906888 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	05/07/19 14:35	

LABORATORY CONTROL SAMPLE: 2906889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE SAMPLE: 2906891

Parameter	Units	35465498001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.83	1	1.8	100	90-110	

SAMPLE DUPLICATE: 2906890

Parameter	Units	35465498001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.83	0.81	2	20	

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QUALITY CONTROL DATA

Project: Future Courthouse
Pace Project No.: 35465833

QC Batch: 536136 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35465833001

METHOD BLANK: 2904688 Matrix: Water
Associated Lab Samples: 35465833001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	05/04/19 05:58	

SAMPLE DUPLICATE: 2904690

Parameter	Units	35465801002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	7.8	7.7	2	20	

SAMPLE DUPLICATE: 2904692

Parameter	Units	35465846001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.9	1.9	5	20	

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QUALIFIERS

Project: Future Courthouse
Pace Project No.: 35465833

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
 ND - Not Detected at or above adjusted reporting limit.
 TNTC - Too Numerous To Count
 MDL - Adjusted Method Detection Limit.
 PQL - Practical Quantitation Limit.
 RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
 S - Surrogate
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
 LCS(D) - Laboratory Control Sample (Duplicate)
 MS(D) - Matrix Spike (Duplicate)
 DUP - Sample Duplicate
 RPD - Relative Percent Difference
 NC - Not Calculable.
 SG - Silica Gel - Clean-Up
 U - Indicates the compound was analyzed for, but not detected.
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
 TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 537664

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U Compound was analyzed for but not detected.
 1p A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
 J(L1) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
 J(M0) Estimated Value. Matrix spike recovery was outside laboratory control limits.
 J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 J(v1) The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
 J(v2) The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
 J(v3) The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
 N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALIFIERS

Project: Future Courthouse

Pace Project No.: 35465833

ANALYTE QUALIFIERS

- P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.
- c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Future Courthouse

Pace Project No.: 35465833

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35465833001	CHMW-01	EPA 3510	536151	FL-PRO	536535
35465833001	CHMW-01	EPA 3010	536122	EPA 6010	536152
35465833001	CHMW-01	EPA 3510	536806	EPA 8270 by SIM	537068
35465833001	CHMW-01	EPA 3510	537664	EPA 8270	537868
35465833001	CHMW-01	EPA 8260	536267		
35465833001	CHMW-01	EPA 350.1	536614		
35465833001	CHMW-01	EPA 353.2	536136		

REPORT OF LABORATORY ANALYSIS

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Project # **WO# : 35465833**
Project Manager **PM: CTR** **Due Date: 05/09/19**
Client: CLIENT: 36-SMASCI
Date and Initials of person: 05/03/19
Examining contents: [Signature]
Label: _____
Deliver: [Signature]
pH: [Signature]

Thermometer Used: T-330 **Date:** 5-3-2019 **Time:** 17:39 **Initials:** WD

State of Origin: FL For WV projects all containers verified to <5 °C
Cooler #1 Temp. °C: 3.9 (Visual) 0.0 (Correction Factor) 3.9 (Actual) Samples on ice, cooling process has begun
Cooler #2 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #3 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #4 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #5 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #6 Temp. °C: _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____
Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____
Custody Seal on Cooler/Box Present: Yes No **Seals intact:** Yes No **Ice:** Wet Blue Dry None
Packing Material: Bubble Wrap Bubble Bags None Other _____
Samples shorted to lab (If Yes, complete) Shorted Date _____ Shorted Time _____ Qty _____

Comments:	
Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing acid/base preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All Containers needing preservation are found to be in compliance with EPA recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC, O&G, Carbamates	
Headspace in VOA Vials? (>6mm)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

Client Notification/ Resolution:
 Person Contacted _____ Date/Time _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ **Date:** _____

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Pace Analytical - Pompano Beach, FL

Sample Delivery Group: L1095900
Samples Received: 05/07/2019
Project Number: 35465833
Description: Future Courthouse
Site: 001
Report To: Christina Raschke
3610 Park Central Blvd N
Pompano Beach, FL 33064

Entire Report Reviewed By:



Nancy McLain
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

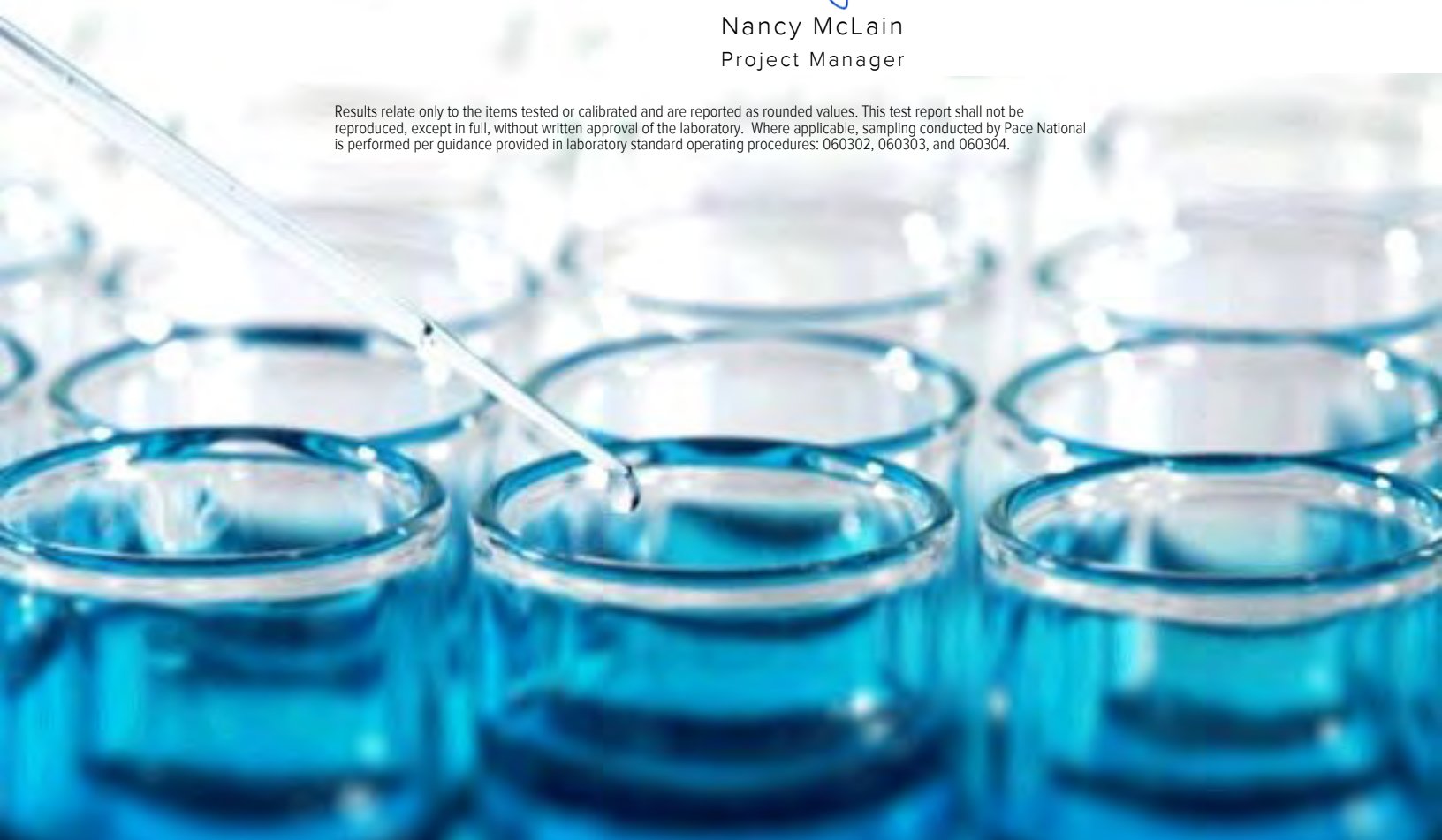


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		9 Sc

SAMPLE SUMMARY

APPENDIX 1E



CHMW-01 L1095900-01 GW

Collected by: _____ Collected date/time: 05/03/19 10:23 Received date/time: 05/07/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
OP Pesticides by Method 8141	WG1277334	1	05/07/19 16:59	05/08/19 18:12	HMH	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1277346	1	05/07/19 16:40	05/08/19 10:26	LEL	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy McLain
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Collected date/time: 05/03/19 10:23

APPENDIX 1E

OP Pesticides by Method 8141

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Azinphos-Methyl	0.348	U	0.348	1.00	1	05/08/2019 18:12	WG1277334
Bolstar (Sulprofos)	0.205	U	0.205	1.00	1	05/08/2019 18:12	WG1277334
Chlorpyrifos	0.245	U	0.245	1.00	1	05/08/2019 18:12	WG1277334
Coumaphos	0.277	U	0.277	1.00	1	05/08/2019 18:12	WG1277334
Demeton,-O and -S	0.341	U	0.341	2.00	1	05/08/2019 18:12	WG1277334
Diazinon	0.377	U	0.377	1.00	1	05/08/2019 18:12	WG1277334
Dichlorvos	0.212	U	0.212	2.00	1	05/08/2019 18:12	WG1277334
Dimethoate	0.105	U	0.105	1.00	1	05/08/2019 18:12	WG1277334
Disulfoton	0.277	U	0.277	1.00	1	05/08/2019 18:12	WG1277334
EPN	0.261	U	0.261	1.00	1	05/08/2019 18:12	WG1277334
Ethoprop	0.354	U	0.354	1.00	1	05/08/2019 18:12	WG1277334
Ethyl Parathion	0.292	U	0.292	1.00	1	05/08/2019 18:12	WG1277334
Fensulfothion	0.130	U	0.130	1.00	1	05/08/2019 18:12	WG1277334
Fenthion	0.266	U	0.266	1.00	1	05/08/2019 18:12	WG1277334
Malathion	0.173	U	0.173	1.00	1	05/08/2019 18:12	WG1277334
Merphos	0.267	U	0.267	2.00	1	05/08/2019 18:12	WG1277334
Methyl parathion	0.257	U	0.257	1.00	1	05/08/2019 18:12	WG1277334
Mevinphos	0.118	U	0.118	1.00	1	05/08/2019 18:12	WG1277334
Naled	0.289	U	0.289	1.00	1	05/08/2019 18:12	WG1277334
Phorate	0.282	U	0.282	1.00	1	05/08/2019 18:12	WG1277334
Ronnel	0.252	U	0.252	1.00	1	05/08/2019 18:12	WG1277334
Stirophos	0.226	U	0.226	1.00	1	05/08/2019 18:12	WG1277334
Sulfotep	0.202	U	0.202	1.00	1	05/08/2019 18:12	WG1277334
TEPP	9.74	U	9.74	20.0	1	05/08/2019 18:12	WG1277334
Tokuthion (Prothothiofos)	0.254	U	0.254	1.00	1	05/08/2019 18:12	WG1277334
Trichloronate	0.213	U	0.213	1.00	1	05/08/2019 18:12	WG1277334
(S) Triphenyl Phosphate	80.6			42.0-129		05/08/2019 18:12	WG1277334

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Pesticides (GC) by Method 8081

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Aldrin	0.00813	U	0.00813	0.0500	1	05/08/2019 10:26	WG1277346
Alpha BHC	0.0166	U	0.0166	0.0500	1	05/08/2019 10:26	WG1277346
Beta BHC	0.0184	U	0.0184	0.0500	1	05/08/2019 10:26	WG1277346
Delta BHC	0.0197	U	0.0197	0.0500	1	05/08/2019 10:26	WG1277346
Gamma BHC	0.0176	U	0.0176	0.0500	1	05/08/2019 10:26	WG1277346
Chlordane	0.0977	U	0.0977	0.500	1	05/08/2019 10:26	WG1277346
4,4-DDD	0.0170	U	0.0170	0.0500	1	05/08/2019 10:26	WG1277346
4,4-DDE	0.0164	U	0.0164	0.0500	1	05/08/2019 10:26	WG1277346
4,4-DDT	0.0177	U	0.0177	0.0500	1	05/08/2019 10:26	WG1277346
Dieldrin	0.00751	U	0.00751	0.0500	1	05/08/2019 10:26	WG1277346
Endosulfan I	0.0179	U	0.0179	0.0500	1	05/08/2019 10:26	WG1277346
Endosulfan II	0.0176	U	0.0176	0.0500	1	05/08/2019 10:26	WG1277346
Endosulfan sulfate	0.0196	U	0.0196	0.0500	1	05/08/2019 10:26	WG1277346
Endrin	0.0189	U	0.0189	0.0500	1	05/08/2019 10:26	WG1277346
Endrin aldehyde	0.0142	U	0.0142	0.0500	1	05/08/2019 10:26	WG1277346
Endrin ketone	0.0170	U	0.0170	0.0500	1	05/08/2019 10:26	WG1277346
Hexachlorobenzene	0.0134	U	0.0134	0.0500	1	05/08/2019 10:26	WG1277346
Heptachlor	0.0108	U	0.0108	0.0500	1	05/08/2019 10:26	WG1277346
Heptachlor epoxide	0.0175	U	0.0175	0.0500	1	05/08/2019 10:26	WG1277346
Methoxychlor	0.0193	U	0.0193	0.0500	1	05/08/2019 10:26	WG1277346
Toxaphene	0.168	U	0.168	0.500	1	05/08/2019 10:26	WG1277346
(S) Decachlorobiphenyl	86.7			10.0-128		05/08/2019 10:26	WG1277346
(S) Tetrachloro-m-xylene	86.6			10.0-127		05/08/2019 10:26	WG1277346



Method Blank (MB)

(MB) R3409742-1 05/08/19 14:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Azinphos-Methyl	0.348	IC	0.348	1.00
Bolstar (Sulprofos)	0.205	IC	0.205	1.00
Chlorpyrifos	0.245	IC	0.245	1.00
Coumaphos	0.277	IC	0.277	1.00
Demeton,-O and -S	0.341	IC	0.341	2.00
Diazinon	0.377	IC	0.377	1.00
Dichlorvos	0.212	IC	0.212	2.00
Dimethoate	0.105	IC	0.105	1.00
Disulfoton	0.277	IC	0.277	1.00
EPN	0.261	IC	0.261	1.00
Ethoprop	0.354	IC	0.354	1.00
Ethyl Parathion	0.292	IC	0.292	1.00
Fensulfothion	0.130	IC	0.130	1.00
Fenthion	0.266	IC	0.266	1.00
Malathion	0.173	IC	0.173	1.00
Merphos	0.267	IC	0.267	2.00
Methyl parathion	0.257	IC	0.257	1.00
Mevinphos	0.118	IC	0.118	1.00
Naled	0.289	IC	0.289	1.00
Phorate	0.282	IC	0.282	1.00
Ronnel	0.252	IC	0.252	1.00
Stirophos	0.226	IC	0.226	1.00
Sulfotep	0.202	IC	0.202	1.00
TEPP	9.74	IC	9.74	20.0
Tokuthion (Prothothiofos)	0.254	IC	0.254	1.00
Trichloronate	0.213	IC	0.213	1.00
(S) Triphenyl Phosphate	102			42.0-129

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3409742-2 05/08/19 15:34 • (LCSD) R3409742-3 05/08/19 16:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	5.00	4.62	4.31	92.4	86.2	43.0-142			6.94	20
Bolstar (Sulprofos)	5.00	4.50	3.83	90.0	76.6	47.0-128			16.1	20
Chlorpyrifos	5.00	3.98	3.66	79.6	73.2	50.0-126			8.38	20
Coumaphos	5.00	4.92	4.60	98.4	92.0	37.0-137			6.72	20
Demeton,-O and -S	2.50	2.14	1.87	85.6	74.8	22.0-150			13.5	24
Diazinon	5.00	4.36	4.42	87.2	88.4	54.0-130			1.37	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3409742-2 05/08/19 15:34 • (LCSD) R3409742-3 05/08/19 16:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dichlorvos	5.00	4.11	3.99	82.2	79.8	43.0-135			2.96	24
Dimethoate	5.00	3.24	3.11	64.8	62.2	27.0-120			4.09	27
Disulfoton	5.00	3.80	3.60	76.0	72.0	44.0-136			5.41	21
EPN	5.00	5.78	5.49	116	110	31.0-143			5.15	21
Ethoprop	5.00	4.19	4.15	83.8	83.0	52.0-130	P	P	0.959	20
Ethyl Parathion	5.00	4.98	4.62	99.6	92.4	42.0-134			7.50	20
Fensulfothion	5.00	4.68	4.29	93.6	85.8	42.0-137			8.70	20
Fenthion	5.00	3.75	3.63	75.0	72.6	53.0-133			3.25	20
Malathion	5.00	4.16	3.56	83.2	71.2	47.0-121			15.5	20
Merphos	5.00	4.27	4.02	85.4	80.4	14.0-123			6.03	25
Methyl parathion	5.00	2.59	4.93	51.8	98.6	43.0-135	P	J	62.2	20
Mevinphos	5.00	4.39	3.99	87.8	79.8	49.0-123			9.55	23
Naled	5.00	3.90	1.79	78.0	35.8	25.0-126		J P	74.2	26
Phorate	5.00	3.66	3.40	73.2	68.0	44.0-129	P	P	7.37	20
Ronnel	5.00	4.35	4.09	87.0	81.8	51.0-125			6.16	20
Stirophos	5.00	4.61	4.17	92.2	83.4	53.0-125			10.0	20
Sulfotep	5.00	4.58	4.37	91.6	87.4	40.0-140			4.69	22
TEPP	50.0	24.1	22.2	48.2	44.4	18.0-122			8.21	32
Tokuthion (Prothothiofos)	5.00	4.30	3.82	86.0	76.4	50.0-128			11.8	20
Trichloronate	5.00	3.99	3.94	79.8	78.8	47.0-130			1.26	21
(S) Triphenyl Phosphate				92.6	87.6	42.0-129				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3409262-2 05/08/19 08:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Aldrin	0.00813	IC	0.00813	0.0500
Alpha BHC	0.0166	IC	0.0166	0.0500
Beta BHC	0.0184	IC	0.0184	0.0500
Delta BHC	0.0197	IC	0.0197	0.0500
Gamma BHC	0.0176	IC	0.0176	0.0500
4,4-DDD	0.0170	IC	0.0170	0.0500
4,4-DDE	0.0164	IC	0.0164	0.0500
4,4-DDT	0.0177	IC	0.0177	0.0500
Dieldrin	0.00751	IC	0.00751	0.0500
Endosulfan I	0.0179	IC	0.0179	0.0500
Endosulfan II	0.0176	IC	0.0176	0.0500
Endosulfan sulfate	0.0196	IC	0.0196	0.0500
Endrin	0.0189	IC	0.0189	0.0500
Endrin aldehyde	0.0142	IC	0.0142	0.0500
Endrin ketone	0.0170	IC	0.0170	0.0500
Heptachlor	0.0108	IC	0.0108	0.0500
Heptachlor epoxide	0.0175	IC	0.0175	0.0500
Hexachlorobenzene	0.0134	IC	0.0134	0.0500
Methoxychlor	0.0193	IC	0.0193	0.0500
Toxaphene	0.168	IC	0.168	0.500
Chlordane	0.0977	IC	0.0977	0.500
(S) Decachlorobiphenyl	70.1			10.0-128
(S) Tetrachloro-m-xylene	71.9			10.0-127

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3409262-1 05/08/19 08:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	1.00	1.03	103	22.0-124	
Alpha BHC	1.00	1.17	117	54.0-130	
Beta BHC	1.00	1.13	113	53.0-136	
Delta BHC	1.00	1.15	115	54.0-133	
Gamma BHC	1.00	1.13	113	55.0-129	
4,4-DDD	1.00	1.18	118	56.0-140	
4,4-DDE	1.00	1.20	120	52.0-128	
4,4-DDT	1.00	1.11	111	50.0-141	
Dieldrin	1.00	1.22	122	59.0-133	
Endosulfan I	1.00	1.18	118	57.0-131	



Laboratory Control Sample (LCS)

(LCS) R3409262-1 05/08/19 08:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	1.00	1.14	114	58.0-133	
Endosulfan sulfate	1.00	1.16	116	58.0-133	
Endrin	1.00	1.20	120	57.0-134	
Endrin aldehyde	1.00	1.16	116	53.0-129	
Endrin ketone	1.00	1.13	113	60.0-145	
Heptachlor	1.00	1.10	110	27.0-132	
Heptachlor epoxide	1.00	1.17	117	57.0-130	
Hexachlorobenzene	1.00	0.913	91.3	30.0-114	
Methoxychlor	1.00	1.16	116	54.0-155	
(S) Decachlorobiphenyl			99.2	10.0-128	
(S) Tetrachloro-m-xylene			109	10.0-127	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1095903-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1095903-01 05/08/19 10:38 • (MS) R3409262-3 05/08/19 10:50 • (MSD) R3409262-4 05/08/19 11:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	1.00	0.00813	0.913	0.883	91.3	88.3	1	10.0-141			3.34	40
Alpha BHC	1.00	0.0166	1.02	1.00	102	100	1	10.0-145			1.98	40
Beta BHC	1.00	0.0184	0.983	0.972	98.3	97.2	1	14.0-146			1.13	35
Delta BHC	1.00	0.0197	1.02	1.01	102	101	1	17.0-143			0.985	38
Gamma BHC	1.00	0.0176	1.00	0.984	100	98.4	1	14.0-141			1.61	40
4,4-DDD	1.00	0.0170	1.04	1.03	104	103	1	10.0-160			0.966	38
4,4-DDE	1.00	0.0164	1.00	0.979	100	97.9	1	10.0-159			2.12	35
4,4-DDT	1.00	0.0177	1.03	1.01	103	101	1	10.0-160			1.96	38
Dieldrin	1.00	0.00751	1.01	1.00	101	100	1	10.0-158			0.995	38
Endosulfan I	1.00	0.0179	0.994	0.980	99.4	98.0	1	10.0-153			1.42	36
Endosulfan II	1.00	0.0176	0.966	0.955	96.6	95.5	1	10.0-159			1.15	39
Endosulfan sulfate	1.00	0.0196	1.00	0.992	100	99.2	1	23.0-147			0.803	35
Endrin	1.00	0.0189	1.02	1.01	102	101	1	10.0-160			0.985	39
Endrin aldehyde	1.00	0.0142	0.998	0.975	99.8	97.5	1	10.0-148			2.33	38
Endrin ketone	1.00	0.0170	1.00	0.986	100	98.6	1	10.0-160			1.41	40
Heptachlor	1.00	0.0108	0.987	0.965	98.7	96.5	1	16.0-136			2.25	40
Heptachlor epoxide	1.00	0.0175	0.992	0.975	99.2	97.5	1	10.0-160			1.73	36
Hexachlorobenzene	1.00	0.0134	0.793	0.777	79.3	77.7	1	10.0-130			2.04	40
Methoxychlor	1.00	0.0193	1.11	1.06	111	106	1	10.0-160			4.61	34
(S) Decachlorobiphenyl					87.7	87.0		10.0-128				
(S) Tetrachloro-m-xylene					90.9	90.1		10.0-127				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
J	The value is outside laboratory established criteria.
P	RPD between the primary and confirmatory analysis exceeded 40%.
U	Indicates the compound was analyzed for but not detected above the method detection limit.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



APPENDIX 1E

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

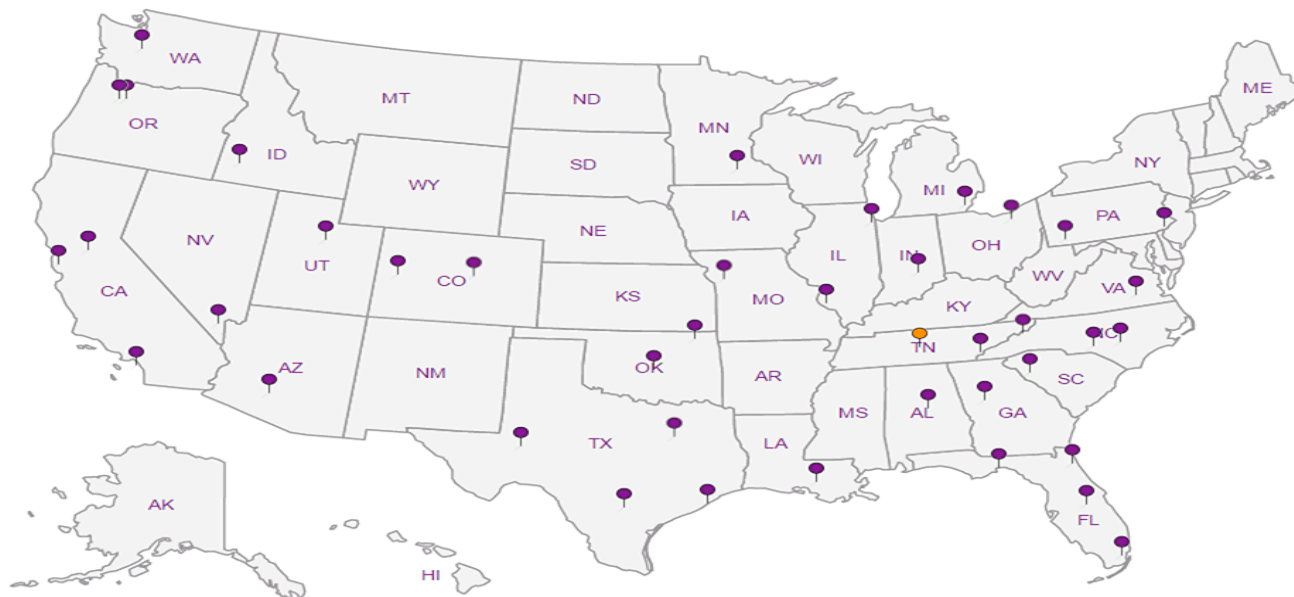
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client: PACE P/BFL	SDG#:	L1095900	
Cooler Received/Opened On: 5/7 / 19	Temperature:	3.7	
Received By: Kristin Willis			
Signature: Kwillis			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			