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DERM

ENVIRONMENTAL
SITE ASSESSMENT REPORT
Douglas Park
2795 SW 37th Avenue
Miami, Florida

Prepared for
City of Miami
Capital Improvement Programs

By

URS Corporation
July 2014

URS



July 10, 2014

Mr. Wilbur Mayorga, P.E., Chief
Environmental Monitoring and Restoration Division
Miami-Dade Department of Regulatory and Environmental Resources
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3612

**Re: Environmental Site Assessment Report
Douglas Park
2795 SW 37 Avenue
Miami, Miami-Dade County, Florida
(HWR-773)**

Dear Mr. Mayorga:

On behalf of the City of Miami, URS Corporation Southern (URS) has prepared the attached Environmental Site Assessment Report (SAR) for Douglas Park located in Miami Miami-Dade County, Florida, as required by Miami-Dade County Division of Environmental Resources Management (DERM) correspondence dated November 21, 2013 and February 19, 2014.

Should you have any questions regarding the enclosed SAR, please feel free to call me at 305-884-8900.

Sincerely,

A handwritten signature in blue ink that reads "Vivek Kamath" followed by the date "7/10/14".

Vivek Kamath, P.E.
Sr. Project Manager
URS Corporation

Pc: Jeovanny Rodriguez, P.E., Assistant Director, CIP, City of Miami



ENVIRONMENTAL SITE ASSESSMENT REPORT

Douglas Park
Miami, Miami-Dade County, Florida
(HWR-773)

Statement of Professional Certification

This Environmental Site Assessment Report for Douglas Park located at 2795 SW 37 Avenue in Miami, Miami-Dade County, Florida (HWR-773) has been completed under the responsible charge of a Florida Registered Professional Engineer employed by URS Corporation Southern (Certificate of Authorization #2). Field sampling work was performed in accordance with Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC). Our professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by registered professionals practicing in the field of engineering. The certification contained herein applies only to the original document and does not pertain to copies of this document or any portion thereof including, but not limited to mylars, linen, sepia, or other materials which can be changed by the entity with whom our documents are filed. No other representation, expressed or implied, is made as to the professional content in this report.



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ENVIRONMENTAL SITE ASSESSMENT REPORT

Douglas Park
2795 SW 37 Avenue
Miami, Florida
(DERM ID #HWR-773)

1.0 INTRODUCTION

URS Corporation Southern (URS), on behalf of the City of Miami (City), has prepared this Environmental Site Assessment Report (SAR) for Douglas Park (Park) located in Miami, Miami-Dade County, Florida. A General Site Location Map is provided as **Figure 1**. A General Site Layout of the Park is provided in **Figure 2**.

This SAR has been prepared by URS in accordance with the requirements in Miami-Dade County Division of Environmental Resources Management (DERM) correspondence dated November 21, 2013, and February 19, 2014. URS has performed this work pursuant to the Professional Service Agreement with the City for Miscellaneous Environmental Engineering Services (RFQ No. 10-11-045), dated September 7, 2012, and Contract No. 12-1669. DERM correspondence is provided in **Appendix A**.

The Park property was historically known as the Tousey Rock Pit. Per limited historical information made available to URS, the City Commission adopted a resolution on July 13, 1938, setting aside the Tousey Rock Pit Tract for the “municipal purpose of dumping and burning of trash and rubbish.” A review of limited aerial photographs provided by the City appears to indicate that the Park was under development in 1961.

DERM notified the City on November 21, 2013, that as part of their ongoing evaluation of the areas surrounding the former Coconut Grove incinerator, they had inspected and collected samples from the Park property. DERM's inspection revealed the presence of solid waste, the physical characteristics of which were similar to the material previously documented at Blanche Park and Merrie Christmas Park. Preliminary laboratory results provided by DERM indicate the presence of antimony, arsenic, barium, copper, iron, and lead above “screening criteria”, per DERM. Based on these results, DERM recommended that the Park be closed to prevent exposure, and that a Solid Waste Delineation Report and a Soil Sampling Plan be submitted for review.

On January 30, 2014, URS submitted a Solid Waste Delineation Report as requested by DERM. Based on the results of the test pit and soil boring data collected, there is evidence of trash, half burnt or decomposed tires, construction and demolition debris, and unrecognizable burnt material or residues below the surficial and intermediate layers. Molten pieces of glass were also observed in the surficial layer.

On April 1, 2014, URS submitted a Sampling Plan to DERM in order to conduct soil, groundwater, and methane sampling, in accordance with the Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC). The Sampling Plan was approved by DERM on April 17, 2014. A copy of the approval letter is included in **Appendix A**. The changes required by DERM have been incorporated in this report. Additional off-site horizontal and vertical delineation of the solid waste will be completed in the near future.

The following paragraphs present a description of our field activities, sample results, conclusions and recommendations.

2.0 OBJECTIVE

The objective of this Environmental Site Assessment is to delineate the degree and extent of soil contamination, and assess groundwater quality based on the Solid Waste Delineation Report submitted by URS in January 2014. A methane gas assessment along the perimeter and in the immediate vicinity of the building on-site is also included as part of this assessment. Representative photos of the field activities are presented in the Photo Log in **Appendix B**.

3.0 SITE ASSESSMENT ACTIVITIES & RESULTS

3.1 Soil Assessment Activities

On April 23, 2014, a total of thirty-six (36) soil borings were installed in locations based on the current use of the Park to evaluate the potential for direct exposure of contaminants of concern and to delineate contaminated soil at the park boundaries or establish concentrations at the park boundaries where solid waste had not been delineated. Soil sampling locations were marked in the field using a GPS Trimble unit. A Soil Boring Location Map is provided as **Figure 3**.

In accordance with the approved Sampling Plan, soil assessment activities were conducted in areas with the most potential for exposure to Park users. These areas were the children's playground, the baseball field at specific locations, i.e. home plate, 1st base, 2nd base, and the dugout. Other borings were located in the main entrance picnic area, along the baseball field fence where solid waste (glass pieces as shown in DERM's sampling results report dated November 22, 2013) has been observed at the surface, and in other non-paved areas of the park and along the park boundaries. The areas that are currently paved with asphalt or concrete or covered by structures like basketball courts, tennis courts, and buildings were not sampled.

3.1.1 Soil Boring Installation and Sampling

From each of the thirty-six (36) soil boring locations, soil samples were collected from the 0-6" and 6"-2' intervals for a total of 72 soil samples. These samples were collected

by hand-auger and the soil samples carefully noted. The depth of surficial clean soil cover and the depth of other material below were noted. The samples were physically inspected to describe the material and determine the presence of post-incinerator type materials, molten glass, staining, and any evidence of solid waste debris. Soil Boring Logs are provided in **Appendix C**. Based on the evidence of solid waste observed, nine (9) samples from the two depth intervals were selected for submittal to the laboratory for the analyses of Arsenic (As), Barium (Ba), Lead (Pb), Aluminum (Al), Copper (Cu), Antimony (Sb), and Iron (Fe). Pending the analytical results of the first set of samples, the remaining samples were placed on hold for further analysis of Mercury (Hg), Chromium (Cr), Cadmium (Cd), Silver (Ag), Selenium (Se), Dioxins and Polychlorinated Bi-Phenyls (PCBs). Based on the analytical results of the initial samples, 18 samples (25% of original sample number) were selected for analysis of Hg, Cr, Cd, Ag, and Se. Of the total samples collected and based on the results, seven (7) samples (10%) were selected for analysis of Dioxins and PCBs.

Following collection of composite soil samples from the 0-6" and 6"-2' intervals, they were placed in laboratory supplied containers in accordance with the FDEP SOPs. Each sample bottle was then preserved on ice in a cooler, transported and submitted under chain-of-custody to Pace Analytical Services, Inc. (PACE).

3.1.2 Soil Analytical Results

The results of the field sampling activities for the 0-6" layer and the 6"-2' layer are described in the following paragraphs based on the current usage of the Park. The soil analytical results were compared to the respective Florida Administrative Code (FAC) Chapter 62-777 and Chapter 24, Miami-Dade County Table II Soil Cleanup Target Levels (SCTLs). Soil analytical results indicated exceedances of the respective soil cleanup target levels (SCTL) for Ba, Cd, Cr, Cu, Pb, Sb, and Dioxins in many locations, as shown in **Figures 4 and 5**. The following paragraphs provide a more detailed description of the areas investigated.

- Children's Playground:

The surficial layer (0-6") consisted mostly of playground sandbox type sand and analytical results showed no exceedances of the Residential SCTLs.

The soils in the 6"-2' layer consisted of sand mixed with fill material. Glass fragments, waste debris, and unrecognizable fill material consistent with ash fill was observed. Analytical results indicate an exceedance of the respective Residential SCTLs for As, Ba, Cu, and Pb at the children's playground at the 6"-2' interval at SB-14, SB-15, and SB-16. Dioxins were also detected above the respective Residential SCTL at SB-12 (6"-2') located north of the playground. However, it is our understanding that these levels are below the screening criteria established by the Florida Department of Health. These surrounding soil borings also showed material

that appeared to like incinerator ash fill material with molten glass and other debris in the surficial layers.

- Baseball Field:

The surficial layer (0-6") of the outfield consisted mostly of top soil and the infield (diamond) consisted of a red sand/clay mix. At SB-22 in the infield, it was observed that the infield mix was only 4" thick followed by the incinerator ash material. The analytical results showed exceedances of the respective Residential SCTLs for Sb, Ba, Cu, and Pb at only SB-10.

The soils in the 6"-2' layer was found to contain incinerator ash type residues consistently throughout the baseball field. This material was also mixed with unrecognizable stained fill material, molten glass, metal, and other debris. The analytical results indicated exceedances of the respective Residential SCTLs for Sb, Ba, Cu, and Pb at five (5) of the ten (10) locations sampled. Dioxins were detected above the respective Residential SCTL at the 6"-2' interval at SB-10 and SB-18 in the outfield, and SB-7 and SB-20 in close vicinity of the outfield. However, it is our understanding that these levels are below the screening criteria established by the Florida Department of Health.

- Basketball and Tennis Courts:

The basketball and tennis courts are paved. The surficial layer (0-6") in the unpaved areas surrounding the basketball and tennis courts consisted mostly of top soil mixed with sand and fill material. No samples were collected in the paved surface of the courts or from the south side of the courts between the parking lot and sidewalk. However, the analytical results of the soil samples collected in the immediate vicinity of the basketball and tennis courts did not show any exceedances of the respective Residential SCTLs in this surficial layer.

The soils in the 6"-2' layer in the surrounding areas showed unrecognizable stained fill material with molten glass and metal. The analytical results from the 6"-2' intervals indicated exceedances of the respective Residential SCTLs for Sb, Ba and Pb in an area about 50 feet east of the basketball courts.

- Main Entrance (Picnic Tables):

The surficial layer (0-6") in the area of the main entrance and picnic tables consisted of top soil mixed with fill material. The fill material contained unrecognizable stained soils with molten glass and metal. The analytical results for this layer indicated exceedances of Ba and Pb above the respective Residential SCTLs in one boring (SB-31) closer to the building.

The soils in the 6"-2' layer in this area consisted of stained fill material with molten glass and metal. The analytical results from the 6"-2' intervals indicated exceedances of the respective Residential SCTLs for Sb, Ba, Fe, Cu, Pb and Dioxins.

Soil Boring Logs and Chains of Custody are provided in **Appendix C**. Soil analytical results are summarized in **Table 1** and illustrated in **Figures 4 and 5**. Laboratory Analytical Results are provided in **Appendix D**.

3.1.3 Discussion of Arsenic Results

Arsenic was detected throughout the site at concentrations above the residential SCTL. Within the apparent impacted area (based upon the presence of other COCs above the residential SCTLs), arsenic was reported at concentrations ranging from below the detection limit (BDL) to 161 mg/kg, with a 95% upper confidence limit of the mean (95% UCL) of 21 mg/kg (one statistical outlier, 161 mg/kg, was removed from the data set).

Arsenic was also detected above the residential SCTL outside the COC impacted area, possibly as a result of historic pesticide application. In the 0-6" interval, arsenic concentrations ranged from BDL to 14.7 mg/kg, with a 95% UCL of 7.7 mg/kg. In the 6"-2' interval, arsenic ranged from BDL to 57 mg/kg, with a 95% UCL of 4.2 mg/kg (two statistical outliers, 26 mg/kg and 57 mg/kg, were removed from the data set). Concentrations in the 0-6" interval are slightly above DERM's county-wide anthropogenic background levels (DERM's April 3, 2014 Miami-Dade County Anthropogenic Background Study memorandum), but are below the concentrations reported for the sites located in the southern portion of the county which have been impacted by historic pesticide application. Concentrations in the 6"-2' interval are generally consistent with county-wide anthropogenic levels (with the exception of the concentrations reported at SB-11 and SB-30).

3.2 Groundwater Assessment Activities

In order to assess the quality of the groundwater, three (3) temporary monitoring wells were installed as shown in the Monitoring Well Location Map provided as **Figure 6**, in accordance with the sampling plan approved by DERM; one (1) temporary intermediate depth (30') monitoring well (MW-1) was installed near the south east corner of the Park, and two (2) temporary shallow (18') monitoring wells were installed near the children's playground (MW-2) and outside the baseball field fence in the central portion of the Park (MW-3).

3.2.1 Monitoring Well Installation

On April 23 and 24, 2014, three (3) temporary monitoring wells (MW-1, MW-2, and MW-3) were installed by Enviro-Drill Inc., a State of Florida licensed well driller. The monitoring wells consisted of 2-inch diameter PVC risers installed within a single 8-inch

borehole. The shallow wells were installed with 10 ft. pre-pack screens and the intermediate well with a 5 ft. screen. Following installation, the monitoring wells were developed until the water quality in the well stabilized. Monitoring Well Construction Logs are provided in **Appendix E**. The monitoring well locations were approved by DERM, as shown on **Figure 6**.

3.2.2 Groundwater Sampling

The irrigation well was sampled under dynamic conditions on April 25, 2014. On April 28, 2014, URS sampled the groundwater of the recently installed monitoring wells. A Monitoring Well Location Map is provided as **Figure 6**. Additionally, URS sampled the existing on-site irrigation well (IW-1) as requested by DERM.

All sampling was conducted in accordance with the FDEP's Standard Operating Procedures (SOPs). Prior to well or equipment volume purging, depth to water and total well depth measurements were collected from each well. Groundwater was then purged at 0.10 - 0.20 gal/min using a peristaltic pump with low density polyethylene tubing (silicone tubing was used in the pump head housing) until indicator field parameters were stabilized. All tubing was replaced with new tubing in between wells. Generally, purge rates were adjusted to affect a minimal drawdown. During well purging, indicator field parameters (pH, conductivity, turbidity, dissolved oxygen [DO], and temperature) were monitored using a flow-through cell. Stabilization was considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, were within the following limits: pH at ± 0.2 units; conductivity at 5%; turbidity at < 20 NTU; DO at $< 20\%$ saturation, and temperature at ± 0.2 .

Following stabilization of indicator parameters, groundwater samples were collected in laboratory-supplied containers in accordance with the FDEP SOPs. Each sample bottle was then preserved on ice in a cooler, transported and submitted under chain-of-custody to Pace Analytical Services, Inc. (PACE).

The groundwater was sampled and analyzed for the following parameters, in accordance with the Sampling Plan approved by DERM: As, Al, Ag, Ba, Cd, Cr, Cu, Fe, Pb, Hg, Sb, Se, Dioxins, PCBs, ammonia and Total Residual Petroleum Hydrocarbons (TRPH). Groundwater Sampling Logs and Chains of Custody are provided in **Appendix F**.

3.2.3 Groundwater Analytical Results

Groundwater analytical results were compared to the respective Florida Administrative Code (FAC) Chapter 62-777 and Chapter 24, Miami-Dade County Table I Groundwater Cleanup Target Levels (GCTLs). Analytical results indicated that As was detected in the groundwater above the GCTL of 10 $\mu\text{g/L}$ for MW-2 (17 $\mu\text{g/L}$). Fe was also detected above the GCTL of 300 $\mu\text{g/L}$ for IW-1 (850 $\mu\text{g/L}$), MW-1 (342 $\mu\text{g/L}$), and MW-2 (7290 $\mu\text{g/L}$). However, except for MW-2, the Fe levels are within the range of background concentrations of 706 $\mu\text{g/L}$ (MVUE Mean) and 962 $\mu\text{g/L}$ (95% FL UCL)). The

background concentration for Fe was established by DERM in December 2005 based on a background study. The remaining parameters were either below laboratory detection limits or below the respective GCTLs.

A groundwater results summary table is provided in **Table 1** and illustrated in **Figure 7**. The laboratory analytical reports are provided in **Appendix G**.

3.3 Methane Gas Assessment Activities

A methane gas assessment was conducted with a sufficient number of methane gas probes adjacent to the on-site recreational building and along the boundaries of the Park, with particular emphasis on the areas where there are potential pathways (e.g., electrical, gas, storm water and sewer conduits, etc.) that may facilitate off-site gas migration. A Methane Gas Monitoring Probe Location Map is provided as **Figure 8**.

3.3.1 Methane Probe Installation

In order to accurately measure and monitor the concentration of methane gas along the perimeter of the landfill and along possible utility conduits, five (5) methane gas monitoring probes (MP-1 to MP-5) were installed under the supervision of URS by Enviro-Drill Inc., a State of Florida licensed driller, on April 25, 2014.

The methane gas probes were installed using an 8" diameter hollow-stem auger on a truck-mounted rig. The probes were installed to a depth of approximately 1.0 ft. above the water table in order to capture methane from the vadose zone. The probes consist of 2" diameter Schedule 40 PVC with a 5 ft. 0.060 in. slotted screen at the bottom and a 3 ft. solid riser. The annulus around the slotted section was packed with pearock and sealed with 6 to 12 in. of bentonite. The probes were flush mounted with a 2 ft. x 2 ft. concrete pad. Manholes were covered with bolt-down lids. All the probes were fitted with a valved sampling port for the direct attachment of a portable methane gas meter (LandTec Gem 2000). Gas Probe Construction Logs are provided in **Appendix H**.

3.3.2 Methane Gas Sampling

On April 28, 2014, URS personnel sampled the five (5) installed methane gas monitoring probes (MP-1 to MP-5). Once the probe and valve were cleaned and the equipment ready for measurement, the meter was connected to the probe via the valved sampling port.

The sampling activity consisted of recording measurements for methane (CH₄), carbon dioxide (CO₂), oxygen (O₂), using a field calibrated LandTec Gem 2000 gas meter. The field measurements include an initial spike as well as the stabilized results and the nitrogen (N₂) concentrations were measured by difference; and for methane, a Lower Explosive Limit (LEL) reading was noted on a monitoring data log. The Methane Gas Monitoring Log is provided in **Table 3**.

3.3.3 Methane Gas Results

During the methane probe sampling event, methane gas was not detected at any of the probes.

4.0 CONCLUSIONS

URS, on behalf of the City of Miami, has completed the Environmental Site Assessment Report for Douglas Park located at 2795 SW 37 Avenue in Miami, Florida. This SAR has been prepared, as required by DERM, pursuant to our Professional Services Agreement with the City.

Based on field observations and the analytical data, the following conclusions can be made:

1. The soil analytical data for the surficial layer (0-6") showed exceedances of Sb, Ba, Cu and Pb above the Residential SCTLs at one location on the baseball field, and for Ba and Pb at the second location near the main entrance. The remaining thirty-four (34) samples were all below the Residential SCTLs. At a few locations there was visual evidence of broken or molten glass, metal pieces, unrecognizable debris and stained soils from the 4"-6" layer. The exceedances for As (without other COCs) do not appear to be of concern, as described in this report.
2. The soil analytical data for the 6"-2' layer showed exceedances of the Residential SCTLs at 50% of the thirty-six (36) sample locations for a variety of metals including Ba, Cd, Cr, Cu, Pb and Sb. Dioxins were also found above the Residential SCTL at seven (7) locations tested. However, only one (1) sample was above what we understand is the screening criteria established by the Florida Department of Health.
3. The groundwater sample results for the on-site irrigation well and three (3) temporary wells installed during the assessment activities showed that only arsenic and iron exceeded their respective GCTLs. However, only one (1) groundwater well sample exceeded the range of background levels for Fe established by DERM. The same well also exceeded the GCTL for As.
4. None of the five (5) methane gas probes installed during this assessment showed any presence of methane gas.

5.0 RECOMMENDATIONS

Based on the data collected and the results of the Environmental Site Assessment at Douglas Park, URS offers the following recommendations for consideration:

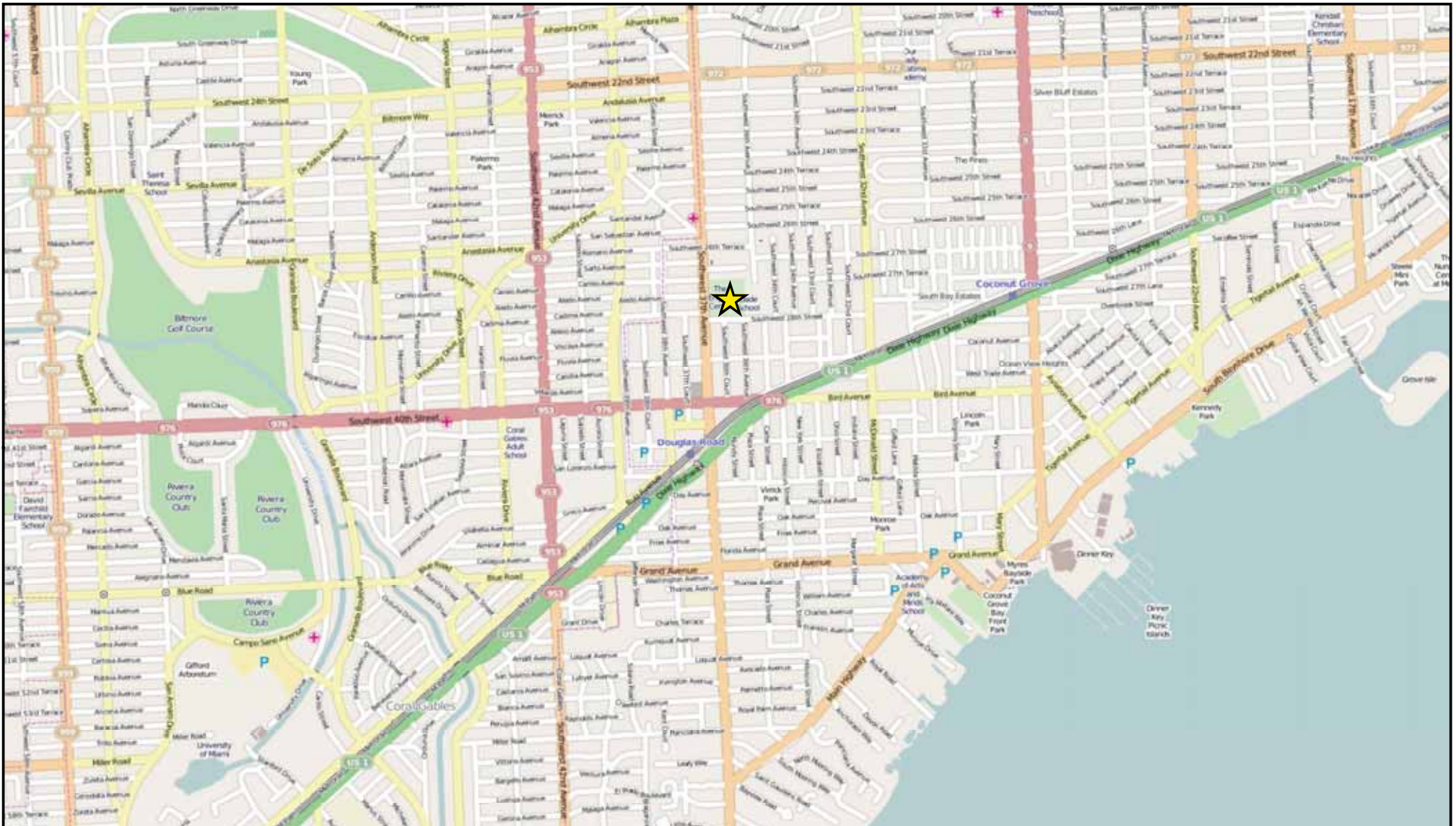
1. Based on the groundwater analytical results, URS recommends pulling the temporary monitoring wells, MW-1 and MW-3, and grouting the borings. MW-2 should be converted to a permanent well and re-sampled for As and Fe.
2. Plug and abandon all the methane gas probes since the initial investigation has not revealed the presence of any methane gas concerns at the Park. No further methane gas monitoring or assessment is recommended at this time.
3. Additional field activities for off-site delineation of incinerator ash and contaminants of concern will be completed, as required by DERM, to evaluate disposal of incinerator ash that may have occurred at the site.
4. Upon receiving approval from DERM, URS will proceed with preparation of a Corrective Action Plan (CAP) to address the impacted soils on the Douglas Park property. The CAP will include a risk-based corrective action approach in accordance with Chapter 24, Miami-Dade County Code. Generally, the proposed corrective action will consist of installation of an engineering control (soil cover and non-woven geotextile) over the impacted soil/ash. Based upon the analytical data and the visible solid waste footprint in the upper six inches, impacts associated with the ash appear to be limited to the SB-10 and SB-31 areas. Therefore, the proposed corrective action may include hot spot source removal in the upper six inches and incorporating that layer into the engineering control cover system.

STATEMENT OF LIMITATIONS AND ASSUMPTIONS

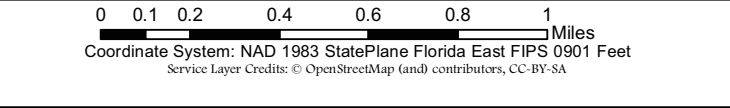
1. This report is intended for the sole use of the City of Miami (City). The scope of services performed during this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or of the findings, conclusions, or recommendations presented herein is at the sole risk of said user.
2. It would be extremely expensive, and perhaps not possible, to conduct an investigation which would ensure the detection of materials at the Park property, which now are, or in the future might be, considered hazardous. It is possible that the investigation may have failed to reveal the presence of hazardous or solid waste material materials at certain locations were samples were not collected. Our failure to discover these materials through a reasonable and mutually agreed-upon limited scope of work does not guarantee that these hazardous or solid waste materials do not exist at the Park property. Therefore, URS cannot insure and cannot certify that the Park is free of environmental contamination. No expressed or implied representation or warranty is included or intended in our report except that our services were performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession.
3. URS has completed this project in a reasonable and prudent manner in accordance with the customary standards of care and diligence practiced by firms that conduct services of a similar nature. As with any assessment, this assessment is a “snapshot” of the former landfill operations and conditions based on the locations sampled by URS. Not all possible operating scenarios may be observed during the limited period the assessment team was conducted field activities at the Park property.
4. The assessment was performed based upon information provided by the records and documents provided by the City, direct verbal communication with City employees. Information obtained from these sources is assumed to be correct and complete. URS will not assume any liability for findings or lack of findings based upon misrepresentation of information presented to the URS assessment team or for items not visible, made available, accessible, or present at the site at the time of the investigation.
5. Opinions presented herein apply to the existing and reasonably foreseeable site conditions at the time of our assessment. They cannot apply to site changes of which URS is unaware and has not had the opportunity to review. Changes in the condition of this property may occur with time due to natural processes or works of man at the Park property or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.
6. The distribution of the solid waste was presented based on a model developed by ArcGIS™ Spatial Analyst, and solid waste presented in the areas that were not sampled may not represent the actual field conditions.

7. The sampling was limited to the unpaved areas as shown on the figures included in the report. The subsurface content under the paved areas/tennis courts/recreational facilities was not ascertained as part of this assessment.

FIGURES



URS
 CITY OF MIAMI - DOUGLAS PARK
 2795 S.W. 37TH AVE
 MIAMI, FL 33133



SITE
 LOCATION
 MAP

FIGURE #
 1

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 ENVIRONMENTAL ASSESSMENT



Property Boundary



CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133

0 25 50 100 150 200 250 300 350
Feet

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,



GENERAL SITE
LAYOUT

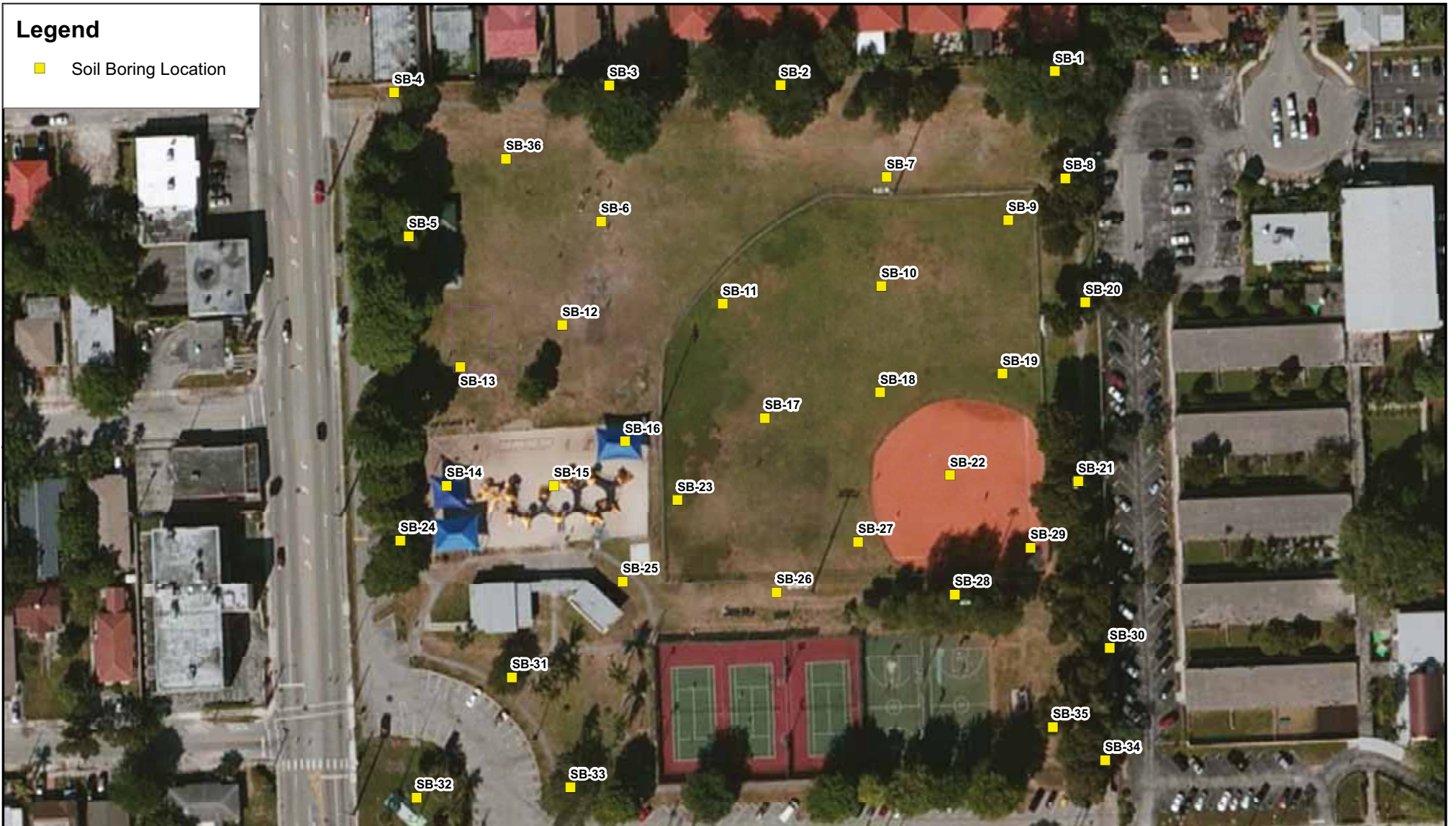
FIGURE 2

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014



Legend

■ Soil Boring Location



CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133

0 25 50 100 150 200 250 Feet

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,



SOIL BORING LOCATIONS

FIGURE 3

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014



Legend

■ Soil Boring Location

SB-10 (0-6")	
Al	5940
Sb	17.9 **
As	16.7
Ba	409
Cd	3.1
Cr	31.8
Cu	515
Fe	21109
Pb	358
Se	0.43 U
Ag	3.5
Hg	0.11
PCB	NA
Dioxins	NA
Solid Waste	Medium

Soil Boring Exceeding SCTL

{ **RED CONCENTRATION** } exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC
 { **BOLDED CONCENTRATION** } exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.
 { **BOLDED ITALICIZED CONCENTRATION** } exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.
 { **BOLDED ITALICIZED CONCENTRATION** } with ** exceeds the leachability limit established in Table II of Chapter 24, MDC.
 "U" flag indicates concentration was below the method detection limit (MDL).

"I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).

NA: Not Analyzed

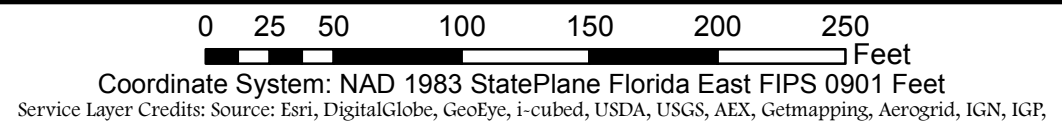
NC: Not Calculated

Solid waste designations were determined from soil boring logs

Analyte	Soil Cleanup Target Levels (mg/kg)		
	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial
Al	NC	80,000	None
Sb	5.4	27	370
As	NC	2.1	12
Ba	1600	120	130,000
Cd	7.5	82	1,700
Cr	38	210	470
Cu	NC	150	89,000
Fe	NC	53,000	None
Pb	NC	400	1,400
Se	5.2	440	11,000
Ag	17	410	8,200
Hg	2.1	3	17
PCB	17	0.5	2.6
Dioxins (ng/kg)	3000	7	30
Solid Waste	Visual descriptions from soil boring logs		



CITY OF MIAMI - DOUGLAS PARK
 2795 S.W. 37TH AVE
 MIAMI, FL 33133



SOIL ANALYTICAL SUMMARY (0-6")

FIGURE 4

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 ENVIRONMENTAL ASSESSMENT
 MAY 2014



Legend

■ Soil Boring Location

SB-4 (6'-2')	
Al	275
Sb	0.41 U
As	1.4 U
Ba	11.5
Cd	NA
Cr	NA
Cu	235
Fe	365
Pb	21.6
Se	NA
Ag	NA
Hg	NA
PCB	NA
Dioxins	NA
Solid Waste	None

Soil Boring Exceeding SCTL

{ **RED CONCENTRATION** } exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{ **BOLDED CONCENTRATION** } exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{ **BOLDED ITALICIZED CONCENTRATION** } exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{ **BOLDED ITALICIZED CONCENTRATION** } with ** exceeds the leachability limit established in Table II of Chapter 24, MDC. "U" flag indicates concentration was below the method detection limit (MDL).

"I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).

NA: Not Analyzed

NC: Not Calculated

Solid waste designations were determined from soil boring logs

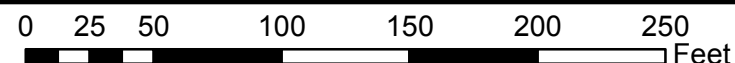
Analyte	Soil Cleanup Target Levels (mg/kg)		
	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial
Al	NC	80,000	None
Sb	5.4	27	370
As	NC	2.1	12
Ba	1600	120	130,000
Cd	7.5	82	1,700
Cr	38	210	470
Cu	NC	150	89,000
Fe	NC	53,000	None
Pb	NC	400	1,400
Se	5.2	440	11,000
Ag	17	410	8,200
Hg	2.1	3	17
PCB	17	0.5	2.6
Dioxins (ng/kg)	3000	7	30
Solid Waste	Visual descriptions from soil boring logs		



CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133



SB-32 (6'-2')	
Al	1170
Sb	0.79 I
As	3.4
Ba	28.7
Cd	NA
Cr	NA
Cu	24.6
Fe	2060
Pb	44
Se	NA
Ag	NA
Hg	NA
PCB	NA
Dioxins	NA
Solid Waste	None



Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,



SOIL ANALYTICAL SUMMARY (6"-2')

FIGURE 5

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014



Legend

- ◆ Shallow Monitoring Well
- ◆ Intermediate Monitoring Well
- Property Boundary



URS

CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133

0 25 50 100 150 200 250 Feet

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,



MONITORING
WELL
LOCATIONS

FIGURE 6

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014



Legend

- ◆ Shallow Monitoring Well
- ◆ Intermediate Monitoring Well
- Property Boundary

Analyte	units	MW-2 (4/24/14)
Aluminum	ug/L	50.0 U
Antimony	ug/L	5.0 U
Arsenic	ug/L	17.4
Barium	ug/L	479
Cadmium	ug/L	0.50 U
Chromium	ug/L	2.5 U
Copper	ug/L	9.6
Iron	ug/L	7290
Lead	ug/L	5.0 U
Mercury	ug/L	0.10 U
Selenium	ug/L	7.5 U
Silver	ug/L	2.5 U
Nitrogen, Ammonia	mg/L	2.6
TRPH	mg/L	0.061 U
PCBs	ug/L	BDL
Dioxins	ug/L	0.000011

Monitoring Well Exceeding Groundwater Cleanup Target Level

{RED CONCENTRATION} exceeds the groundwater cleanup target level for the analyte established in Table I of Chapter 24, MDC

"U" flag indicates concentration was below the method detection limit (MDL).

"I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).

NA: Not Analyzed

NC: Not calculated

BDL: All Arochlors Below Detection Limits

LEGEND		
Groundwater Cleanup Target Levels		
Aluminum	ug/L	200
Antimony	ug/L	6
Arsenic	ug/L	10
Barium	ug/L	2000
Cadmium	ug/L	5
Chromium	ug/L	100
Copper	ug/L	1000
Iron	ug/L	300
Lead	ug/L	15
Mercury	ug/L	2
Selenium	ug/L	50
Silver	ug/L	100
Nitrogen, Ammonia	mg/L	2.8
TRPH	mg/L	5
PCBs	ug/L	0.5
Dioxins	ug/L	0.00003



MW-3

Analyte	units	MW-3 (4/24/14)
Aluminum	ug/L	50.0 U
Antimony	ug/L	5.0 U
Arsenic	ug/L	5.0 U
Barium	ug/L	94.2
Cadmium	ug/L	0.50 U
Chromium	ug/L	2.5 U
Copper	ug/L	2.5 U
Iron	ug/L	174
Lead	ug/L	5.0 U
Mercury	ug/L	0.10 U
Selenium	ug/L	7.5 U
Silver	ug/L	2.5 U
Nitrogen, Ammonia	mg/L	0.020 U
TRPH	mg/L	0.061 U
PCBs	ug/L	BDL
Dioxins	ug/L	0.000011

MW-2

Analyte	units	MW-2 (4/24/14)
Aluminum	ug/L	50.0 U
Antimony	ug/L	5.0 U
Arsenic	ug/L	17.4
Barium	ug/L	479
Cadmium	ug/L	0.50 U
Chromium	ug/L	2.5 U
Copper	ug/L	9.6
Iron	ug/L	7290
Lead	ug/L	5.0 U
Mercury	ug/L	0.10 U
Selenium	ug/L	7.5 U
Silver	ug/L	2.5 U
Nitrogen, Ammonia	mg/L	2.6
TRPH	mg/L	0.061 U
PCBs	ug/L	BDL
Dioxins	ug/L	0.000011

Irrigation Well

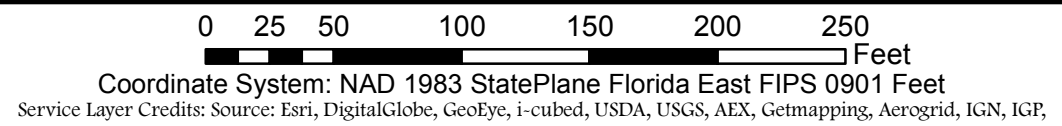
Analyte	units	IW-1 (4/25/14)
Aluminum	ug/L	50.0 U
Antimony	ug/L	5.0 U
Arsenic	ug/L	0
Barium	ug/L	52.8
Cadmium	ug/L	0.50 U
Chromium	ug/L	2.5 U
Copper	ug/L	9.1
Iron	ug/L	850
Lead	ug/L	5.0 U
Mercury	ug/L	0.10 U
Selenium	ug/L	7.5 U
Silver	ug/L	2.5 U
Nitrogen, Ammonia	mg/L	0.21
TRPH	mg/L	0.063 U
PCBs	ug/L	BDL
Dioxins	ug/L	NA

MW-1

Analyte	units	MW-1 (4/24/14)
Aluminum	ug/L	50.0 U
Antimony	ug/L	5.0 U
Arsenic	ug/L	7.0 I
Barium	ug/L	40.7
Cadmium	ug/L	0.50 U
Chromium	ug/L	2.5 U
Copper	ug/L	2.5 U
Iron	ug/L	342
Lead	ug/L	5.0 U
Mercury	ug/L	0.10 U
Selenium	ug/L	7.5 U
Silver	ug/L	2.5 U
Nitrogen, Ammonia	mg/L	0.022 I
TRPH	mg/L	0.061 U
PCBs	ug/L	BDL
Dioxins	ug/L	0.000018



CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133





GROUNDWATER ANALYTICAL SUMMARY

FIGURE 7

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014

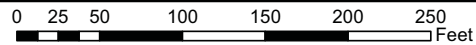


Legend

-  Methane Probe Location
-  Property Boundary



CITY OF MIAMI - DOUGLAS PARK
2795 S.W. 37TH AVE
MIAMI, FL 33133



Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,



METHANE
PROBE
LOCATIONS

FIGURE 8

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
ENVIRONMENTAL ASSESSMENT
MAY 2014



TABLES

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-1 (0-6")		SB-1 (6"-2')		SB-2 (0-6")		SB-2 (6"-2')		SB-3 (0-6")		SB-3 (6"-2')		SB-4 (0-6")		SB-4 (6"-2')	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	838	Al	868	Al	2180	Al	1350	Al	1360	Al	1320
Sb	5.4	27	370	Sb	0.43 U	Sb	0.40 U	Sb	3.9	Sb	2.2	Sb	0.64 I	Sb	0.41 U	Sb	0.71 I	Sb	0.41 U
As	NC	2.1	12	As	0.88	As	0.38 I	As	8.4	As	0.91	As	2.1	As	1.5	As	2.5	As	1.4 U
Ba	1600	120	130,000	Ba	13.8	Ba	9	Ba	96.7	Ba	20.4	Ba	22.9	Ba	16.9	Ba	22	Ba	11.5
Cd	7.5	82	1,700	Cd	NA	Cd	NA	Cd	1.1	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	NA	Cr	21	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	9.8	Cu	4	Cu	128	Cu	132	Cu	67.5	Cu	58.4	Cu	26.4	Cu	235
Fe	NC	53,000	None	Fe	1140	Fe	661	Fe	14800	Fe	1270	Fe	9480	Fe	1900	Fe	1680	Fe	365
Pb	NC	400	1,400	Pb	33	Pb	12	Pb	228	Pb	79.8	Pb	40	Pb	31.2	Pb	139	Pb	21.6
Se	5.2	440	11,000	Se	NA	Se	NA	Se	0.44 U	Se	NA	Se	NA	Se	NA	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	NA	Ag	0.65	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	NA	Hg	0.3	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	None

Notes:

{**RED** CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED** CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-5 (0-6")		SB-5 (6"-2')		SB-6 (0-6")		SB-6 (6"-2')		SB-7 (0-6")		SB-7 (6"-2')		SB-8 (0-6")		SB-8 (6"-2')	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	1760	Al	4910	Al	864	Al	3870	Al	928	Al	12100
Sb	5.4	27	370	Sb	1.8	Sb	32.7	Sb	0.64 I	Sb	13.7 **	Sb	1	Sb	112	Sb	0.44 I	Sb	1.9
As	NC	2.1	12	As	4.3	As	25.6	As	5.9	As	11.9	As	4.8	As	23.2	As	11.5	As	4.3
Ba	1600	120	130,000	Ba	68.5	Ba	829	Ba	16.3	Ba	338	Ba	38.8	Ba	1020	Ba	18.2	Ba	71.3
Cd	7.5	82	1,700	Cd	NA	Cd	3.8	Cd	NA	Cd	2.8	Cd	NA	Cd	1800	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	34.6	Cr	NA	Cr	29.5	Cr	NA	Cr	50.4 **	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	75.8	Cu	1020	Cu	19.8	Cu	288	Cu	60.8	Cu	1060	Cu	10	Cu	82.6
Fe	NC	53,000	None	Fe	4570	Fe	52300	Fe	1790	Fe	41000	Fe	3640	Fe	37200	Fe	7240	Fe	4700
Pb	NC	400	1,400	Pb	215	Pb	3000	Pb	89.8	Pb	643	Pb	79.5	Pb	4360	Pb	29.9	Pb	206
Se	5.2	440	11,000	Se	NA	Se	0.43 U	Se	NA	Se	0.44 U	Se	NA	Se	0.90 I	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	4.2	Ag	NA	Ag	3	Ag	NA	Ag	6.2	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	0.23	Hg	NA	Hg	0.18	Hg	NA	Hg	0.3	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	BDL	PCB	NA	PCB	BDL	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	11	Dioxins	NA	Dioxins	24	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	Medium

Notes:

{**RED CONCENTRATION**} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED CONCENTRATION**} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-9 (0-6")		SB-9 (6"-2')		SB-10 (0-6")		SB-10 (6"-2')		SB-11 (0-6")		SB-11 (6"-2')		SB-12 (0-6")		SB-12 (6"-2')	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	876	Al	7590	Al	5940	Al	5080	Al	587	Al	1070
Sb	5.4	27	370	Sb	0.95	Sb	28.8	Sb	17.0 **	Sb	18.3 **	Sb	0.64 I	Sb	3.7	Sb	3	Sb	18.1 **
As	NC	2.1	12	As	5	As	29.7	As	16.7	As	15.7	As	8.1	As	57.4	As	5.4	As	21.1
Ba	1600	120	130,000	Ba	61.2	Ba	578	Ba	409	Ba	285	Ba	11.5	Ba	53.1	Ba	70.6	Ba	755
Cd	7.5	82	1,700	Cd	NA	Cd	4.7	Cd	3.1	Cd	2.4	Cd	NA	Cd	NA	Cd	NA	Cd	5.7
Cr	38	210	470	Cr	NA	Cr	37.6	Cr	31.8	Cr	26.3	Cr	NA	Cr	NA	Cr	NA	Cr	30.2
Cu	NC	150	89,000	Cu	45.8	Cu	1500	Cu	515	Cu	454	Cu	14.4	Cu	85.3	Cu	96.7	Cu	647
Fe	NC	53,000	None	Fe	2750	Fe	39400	Fe	21100	Fe	17400	Fe	2010	Fe	5820	Fe	7330	Fe	61400
Pb	NC	400	1,400	Pb	184	Pb	1890	Pb	958	Pb	1860	Pb	37.2	Pb	234	Pb	345	Pb	2840
Se	5.2	440	11,000	Se	NA	Se	0.44 U	Se	0.43 U	Se	0.44 U	Se	NA	Se	NA	Se	NA	Se	8.3 U
Ag	17	410	8,200	Ag	NA	Ag	4.1	Ag	3.5	Ag	3	Ag	NA	Ag	NA	Ag	NA	Ag	3.7
Hg	2.1	3	17	Hg	NA	Hg	0.46	Hg	0.11	Hg	0.19	Hg	NA	Hg	NA	Hg	NA	Hg	0.091
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	BDL	PCB	NA	PCB	NA	PCB	NA	PCB	BDL
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	28	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	20
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	High	Solid Waste	Medium	Solid Waste	High	Solid Waste	None	Solid Waste	Low	Solid Waste	None	Solid Waste	High

Notes:

{**RED CONCENTRATION**} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED CONCENTRATION**} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-13 (0-6")		SB-13 (6"-2)		SB-14 (0-6")		SB-14 (6"-2)		SB-15 (0-6")		SB-15 (6"-2)		SB-16 (0-6")		SB-16 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	606	Al	514	Al	117	Al	3250	Al	138	Al	947
Sb	5.4	27	370	Sb	0.42 U	Sb	1.5	Sb	0.37 U	Sb	12.5 **	Sb	0.38 U	Sb	6.2 **	Sb	0.41 U	Sb	0.39 U
As	NC	2.1	12	As	0.88	As	3.7	As	0.36 I	As	18.5	As	0.26 U	As	4.2	As	1.6	As	5.4
Ba	1600	120	130,000	Ba	11.8	Ba	20.9	Ba	11.6	Ba	747	Ba	3.5	Ba	137	Ba	20.1	Ba	6.3
Cd	7.5	82	1,700	Cd	NA	Cd	NA	Cd	NA	Cd	3.6	Cd	NA	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	NA	Cr	NA	Cr	30	Cr	NA	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	11	Cu	22.6	Cu	9.4	Cu	437	Cu	2	Cu	106	Cu	3.2	Cu	3.1
Fe	NC	53,000	None	Fe	1080	Fe	3480	Fe	1510	Fe	46400	Fe	256	Fe	10000	Fe	862	Fe	1540
Pb	NC	400	1,400	Pb	13.8	Pb	95.4	Pb	17.5	Pb	2160	Pb	5.4	Pb	339	Pb	6.7	Pb	12.1
Se	5.2	440	11,000	Se	NA	Se	NA	Se	NA	Se	0.42 U	Se	NA	Se	NA	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	NA	Ag	NA	Ag	3.1	Ag	NA	Ag	NA	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	NA	Hg	NA	Hg	0.092	Hg	NA	Hg	NA	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	Low	Solid Waste	Low	Solid Waste	Low	Solid Waste	High	Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	High

Notes:

{**RED** CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED** CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag
 "I" flag
 NA: Not
 NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-17 (0-6")		SB-17 (6"-2)		SB-18 (0-6")		SB-18 (6"-2)		SB-19 (0-6")		SB-19 (6"-2)		SB-20 (0-6")		SB-20 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	623	Al	1300	Al	1000	Al	4380	Al	2660	Al	6880
Sb	5.4	27	370	Sb	0.40 U	Sb	0.57 I	Sb	0.41 U	Sb	20.8 **	Sb	0.40 U	Sb	304	Sb	2.9	Sb	39.1
As	NC	2.1	12	As	0.97	As	3.2	As	3.6	As	12.2	As	2.5	As	30	As	14.7	As	31.1
Ba	1600	120	130,000	Ba	5.5	Ba	19.7	Ba	11.8	Ba	346	Ba	3.4	Ba	702	Ba	95.4	Ba	572
Cd	7.5	82	1,700	Cd	NA	Cd	NA	Cd	NA	Cd	3.8	Cd	NA	Cd	3.6	Cd	NA	Cd	5.2
Cr	38	210	470	Cr	NA	Cr	NA	Cr	NA	Cr	31.1	Cr	NA	Cr	36.7	Cr	NA	Cr	35.1
Cu	NC	150	89,000	Cu	6.5	Cu	15.4	Cu	19.1	Cu	833	Cu	2.9	Cu	608	Cu	114	Cu	1130
Fe	NC	53,000	None	Fe	937	Fe	2020	Fe	2050	Fe	21700	Fe	7180	Fe	30100	Fe	3910	Fe	50200
Pb	NC	400	1,400	Pb	20.5	Pb	46.6	Pb	43.4	Pb	1380	Pb	3.5	Pb	5400	Pb	288	Pb	2000
Se	5.2	440	11,000	Se	NA	Se	NA	Se	NA	Se	0.42 U	Se	NA	Se	0.48 U	Se	NA	Se	1
Ag	17	410	8,200	Ag	NA	Ag	NA	Ag	NA	Ag	33.9 **	Ag	NA	Ag	6	Ag	NA	Ag	5
Hg	2.1	3	17	Hg	NA	Hg	NA	Hg	NA	Hg	0.21	Hg	NA	Hg	0.17	Hg	NA	Hg	0.25
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	BDL	PCB	NA	PCB	NA	PCB	NA	PCB	BDL
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	44	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	17
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	Medium	Solid Waste	None	Solid Waste	Medium	Solid Waste	None	Solid Waste	Medium	Solid Waste	None	Solid Waste	High

Notes:

{**RED** CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED** CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-21 (0-6")		SB-21 (6"-2)		SB-22 (0-6")		SB-22 (6"-2)		SB-23 (0-6")		SB-23 (6"-2)		SB-24 (0-6")		SB-24 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	2050	Al	2720	Al	3150	Al	4340	Al	544	Al	1020
Sb	5.4	27	370	Sb	2.1	Sb	2.8	Sb	0.40 I	Sb	13.2 **	Sb	0.41 U	Sb	0.41 U	Sb	0.46 U	Sb	1.9
As	NC	2.1	12	As	13.4	As	19.9	As	4.6	As	161	As	3.8	As	1.4	As	1.6	As	7.5
Ba	1600	120	130,000	Ba	55.6	Ba	85.4	Ba	13.7	Ba	248	Ba	9.1	Ba	13.4	Ba	43.6	Ba	49.9
Cd	7.5	82	1,700	Cd	NA	Cd	0.98	Cd	NA	Cd	2.3	Cd	NA	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	28.8	Cr	NA	Cr	51.2 **	Cr	NA	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	57.1	Cu	85.9	Cu	10.8	Cu	758	Cu	6.2	Cu	15.3	Cu	34.5	Cu	62.2
Fe	NC	53,000	None	Fe	3670	Fe	7170	Fe	8880	Fe	17400	Fe	1150	Fe	1290	Fe	1390	Fe	6270
Pb	NC	400	1,400	Pb	192	Pb	588	Pb	35.6	Pb	1020	Pb	20.3	Pb	43.5	Pb	32.1	Pb	197
Se	5.2	440	11,000	Se	NA	Se	0.44 U	Se	NA	Se	0.64 I	Se	NA	Se	NA	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	0.66	Ag	NA	Ag	3.3	Ag	NA	Ag	NA	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	0.14	Hg	NA	Hg	0.25	Hg	NA	Hg	NA	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	Medium	Solid Waste	Medium	Solid Waste	High	Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	None

Notes:

{RED CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{BOLDED CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{BOLDED ITALICIZED CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{BOLDED ITALICIZED CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-25 (0-6")		SB-25 (6"-2)		SB-26 (0-6")		SB-26 (6"-2)		SB-27 (0-6")		SB-27 (6"-2)		SB-28 (0-6")		SB-28 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	906	Al	2100	Al	208	Al	1040	Al	636	Al	1070
Sb	5.4	27	370	Sb	0.53 I	Sb	4.8	Sb	0.43 U	Sb	0.50 I	Sb	0.45 I	Sb	1.3	Sb	0.50 I	Sb	0.49 I
As	NC	2.1	12	As	4.4	As	9.6	As	6.6	As	3.3	As	3.4	As	4.7	As	5.5	As	4.8
Ba	1600	120	130,000	Ba	12.7	Ba	148	Ba	11.1	Ba	22.8	Ba	11.8	Ba	32.4	Ba	21.3	Ba	35.3
Cd	7.5	82	1,700	Cd	NA	Cd	3.1	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	37.4	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	15.8	Cu	224	Cu	3.6	Cu	8.1	Cu	14.5	Cu	45.8	Cu	12.9	Cu	10.1
Fe	NC	53,000	None	Fe	1980	Fe	21800	Fe	608	Fe	1350	Fe	2860	Fe	3460	Fe	4960	Fe	2420
Pb	NC	400	1,400	Pb	112	Pb	400	Pb	3.9	Pb	41	Pb	39.3	Pb	92.1	Pb	38.9	Pb	58.4
Se	5.2	440	11,000	Se	NA	Se	0.42 U	Se	NA	Se	NA	Se	NA	Se	NA	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	1.5	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	0.83	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	None	Solid Waste	Medium	Solid Waste	High	Solid Waste	None	Solid Waste	High

Notes:

{**RED CONCENTRATION**} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED CONCENTRATION**} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED CONCENTRATION**} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-29 (0-6")		SB-29 (6"-2)		SB-30 (0-6")		SB-30 (6"-2)		SB-31 (0-6")		SB-31 (6"-2)		SB-32 (0-6")		SB-32 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al	NC	80,000	None	Al	2000	Al	1370	Al	1200	Al	1880	Al	1840	Al	6580
Sb	5.4	27	370	Sb	0.40 U	Sb	0.41 U	Sb	0.53 I	Sb	0.72 I	Sb	4.3	Sb	16.3 **	Sb	0.47 I	Sb	0.79 I
As	NC	2.1	12	As	1.7	As	0.98	As	11.1	As	25.9	As	8.7	As	21.9	As	4.1	As	3.4
Ba	1600	120	130,000	Ba	1.9	Ba	7.8	Ba	21.8	Ba	53.4	Ba	179	Ba	925	Ba	21.1	Ba	28.7
Cd	7.5	82	1,700	Cd	NA	Cd	NA	Cd	NA	Cd	0.37	Cd	1.7	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	NA	Cr	NA	Cr	8.1	Cr	28.6	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	1.1	Cu	4.5	Cu	17.1	Cu	21.5	Cu	105	Cu	623	Cu	30.2	Cu	24.6
Fe	NC	53,000	None	Fe	5940	Fe	2040	Fe	1910	Fe	2270	Fe	16300	Fe	78200	Fe	1910	Fe	2060
Pb	NC	400	1,400	Pb	9.3	Pb	25.9	Pb	40.4	Pb	48.4	Pb	437	Pb	2720	Pb	171	Pb	44
Se	5.2	440	11,000	Se	NA	Se	NA	Se	NA	Se	NA	Se	0.41 U	Se	8.6 U	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	1.3	Ag	3.5	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	0.14	Hg	0.2	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	BDL	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	140	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	Medium	Solid Waste	None	Solid Waste	None	Solid Waste	Medium	Solid Waste	High	Solid Waste	None	Solid Waste	None

Notes:

{**RED** CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{**BOLDED** CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{**BOLDED ITALICIZED** CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 1: Soil Analytical Results - Summary Table
Douglas Park - 2795 SW 37 Avenue
Miami, Florida

Soil Cleanup Target Levels (mg/kg)				SB-33 (0-6")		SB-33 (6"-2)		SB-34 (0-6")		SB-34 (6"-2)		SB-35 (0-6")		SB-35 (6"-2)		SB-36 (0-6")		SB-36 (6"-2)	
Analyte	Leachability Based on Groundwater Criteria	Direct Exposure Residential	Direct Exposure Commercial / Industrial	4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14		4/23/14	
				Al		Al		Al		Al		Al		Al		Al		Al	
Al	NC	80,000	None	Al	1210	Al	1240	Al	1930	Al	1060	Al	1040	Al	2910	Al	984	Al	1170
Sb	5.4	27	370	Sb	1.3	Sb	1.2	Sb	0.52 I	Sb	0.40 U	Sb	0.38 U	Sb	10.9 **	Sb	0.95	Sb	0.61 I
As	NC	2.1	12	As	4.5	As	4	As	10.4	As	3.9	As	4.8	As	8.1	As	3.7	As	1.2
Ba	1600	120	130,000	Ba	48.8	Ba	44.9	Ba	28	Ba	14.3	Ba	12	Ba	128	Ba	35.9	Ba	144
Cd	7.5	82	1,700	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA	Cd	NA
Cr	38	210	470	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA	Cr	NA
Cu	NC	150	89,000	Cu	66	Cu	59.7	Cu	14.5	Cu	10.2	Cu	12	Cu	119	Cu	27.6	Cu	12.6
Fe	NC	53,000	None	Fe	5590	Fe	3940	Fe	4830	Fe	1740	Fe	2750	Fe	5000	Fe	3260	Fe	8240
Pb	NC	400	1,400	Pb	248	Pb	246	Pb	44.7	Pb	23.8	Pb	29.7	Pb	1020	Pb	107	Pb	408
Se	5.2	440	11,000	Se	NA	Se	NA	Se	NA	Se	NA	Se	NA	Se	0.75 I	Se	NA	Se	NA
Ag	17	410	8,200	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	NA	Ag	1.3	Ag	NA	Ag	NA
Hg	2.1	3	17	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	NA	Hg	0.22	Hg	NA	Hg	NA
PCB	17	0.5	2.6	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA	PCB	NA
Dioxins (ng/kg)	3000	7	30	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA	Dioxins	NA
Solid Waste	Visual descriptions from soil boring logs			Solid Waste	None	Solid Waste	Medium	Solid Waste	None	Solid Waste	None	Solid Waste	None	Solid Waste	High	Solid Waste	None	Solid Waste	Medium

Notes:

{RED CONCENTRATION} exceeds the residential or commercial direct exposure limit for the analyte established in Table II of Chapter 24, MDC

{BOLDED CONCENTRATION} exceeds residential direct exposure limit for As established in Table II of Chapter 24, MDC.

{BOLDED ITALICIZED CONCENTRATION} exceeds commercial direct exposure limit for As established in Table II of Chapter 24, MDC.

{BOLDED ITALICIZED CONCENTRATION} with an ** beside it exceeds its leachability limit established in Table II of Chapter 24, MDC.

"U" flag

"I" flag

NA: Not

NC: Not calculated

Table 2: Groundwater Analytical Results - Summary Table
 Douglas Park - 2795 SW 37 Avenue
 Miami, Florida

Parameter / Monitoring Well ID	Units	Groundwater Cleanup Target Levels	IW-1	MW-1	MW-2	MW-3
Aluminum	ug/L	200	50.0 U	50.0 U	50.0 U	50.0 U
Antimony	ug/L	6	5.0 U	5.0 U	5.0 U	5.0 U
Arsenic	ug/L	10	5.0 U	7.0 I	17.4	5.0 U
Barium	ug/L	2000	52.8	40.7	479	94.2
Cadmium	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	ug/L	100	2.5 U	2.5 U	2.5 U	2.5 U
Copper	ug/L	1000	9.1	2.5 U	9.6	2.5 U
Iron	ug/L	300*	850	342	7290	174
Lead	ug/L	15	5.0 U	5.0 U	5.0 U	5.0 U
Mercury	ug/L	2	0.10 U	0.10 U	0.10 U	0.10 U
Selenium	ug/L	50	7.5 U	7.5 U	7.5 U	7.5 U
Silver	ug/L	100	2.5 U	2.5 U	2.5 U	2.5 U
Nitrogen, Ammonia	mg/L	2.8	0.21	0.022 I	2.6	0.020 U
TRPH	mg/L	5	0.063 U	0.061 U	0.061 U	0.061 U
PCBs	ug/L	0.5	BDL	BDL	BDL	BDL
Dioxins	ug/L	0.00003	NA	0.0000018	0.0000011	0.0000011

Notes:

(RED CONCENTRATION) exceeds the groundwater cleanup target level for the analyte established in Table I of Chapter 24, MDC)

* Miami Dade County background levels = 706 µg/L (MVUE Mean) and 962 µg/L (95% FL UCL) in December 2005

"U" flag indicates concentration was below the method detection limit (MDL).

"I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).

NA: Not Analyzed

NC: Not calculated

BDL: All Arochlors Below Detection Limits

**Table 3
Methane Gas Monitoring Data (April 2014)**

Project Name: **Douglas Park**
 Date: 5/28/2014
 URS Technician Mike Powell
 Start Time: 1400 PM
 Finish Time: 1500 PM
 Barometric Pressure: 30.38" Hg

URS Project No.
 Meter Model: LandTec Gem 2000
 Calibration Date: 9/18/2013
 Calibration Gas: Methane (50% by volume)
 Calibration Reading: 49.2% Methane
 34.0% CO2

Probe ID	Temp	Pressure (relative)	% CH4 by vol.	% LEL	%CH4 by vol.	% LEL	% CO2 by vol.	% CO2 by vol.	% O2 by vol.	% O2 by vol.	% bal. by difference	Comments
	.deg F	"H2O	(Initial)	(LEL=5% CH4)	(Stable)	(LEL=5% CH4)	(Initial)	(Stable)	(Initial)	(Stable)	(Stable)	
MP-1	101	0.00	0	0	0	0	5.4	5.4	15.9	15.9	78.7	
MP-2	91	0.00	0	0	0	0	2.0	2.0	18.7	18.7	79.3	
MP-3	103	0.00	0	0	0	0	8.6	8.6	11.2	11.2	80.2	
MP-4	103	0.00	0	0	0	0	8.3	8.3	10.9	10.9	80.8	
MP-5	108	0.00	0	0	0	0	10.7	10.7	10.1	10.1	79.2	

Notes:

NS: Not Sampled

>>> LEL: Exceeds Lower Explosive Limit

Appendix A

DERM Correspondence



Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources

Environmental Resources Management

701 NW 1st Court, 4th Floor

Miami, Florida 33136-3912

T 305-372-6700 F 305-372-6982

miamidade.gov

April 17, 2014

Ms. Alice N. Bravo, P.E.
Assistant City Manager – Chief of Infrastructure
City of Miami
444 SW 2nd Avenue
Miami, FL 33130

Certified Mail No. 7011 0470 0002 4387 8732
Return Receipt Requested

Re: Sampling Plan dated April 1, 2014, prepared by URS Corporation for the Notice of Violation dated November 21, 2013 for the City of Miami, Douglas Park, (HWR-773) located at, near, or in the vicinity of 2795 SW 37th Avenue, Miami, Miami-Dade County, Florida.

Dear Ms. Bravo:

The Miami-Dade County Department of Regulatory & Economic Resources, Division of Environmental Resources Management (DERM) has reviewed the above referenced document received April 3, 2014, and supplemental documentation received April 7th and April 10th, and hereby approves the Sampling Plan with the following modifications:

1. Two additional soil borings (SB-35 & 36) shall be advanced in the following locations, and sampled in the same intervals and for the same parameters as proposed in the Sampling Plan: Location 1 – one SB in the approximate location of previous test pit, T-10; Location 2 – one SB in the approximate center of the imaginary square created by proposed SBs-3, 4, 5, & 6.
2. Be advised that additional solid waste delineation is required pursuant to the DERM review letter dated February 19, 2014 (attached). Additionally, horizontal and vertical delineation of soil contamination, including offsite, is required pursuant to the DERM review letter dated November 21, 2013 (attached). All remaining assessment data shall be presented in the Site Assessment Report required below.

Be advised that the vertical and horizontal extent of the contaminant plume(s) must be fully delineated. DERM has the option to split any samples deemed necessary with the consultant or laboratory at the subject site. The consultant collecting the samples must perform field sampling work in accordance with the Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC), as amended. The laboratory analyzing the samples must perform laboratory analyses pursuant to the National Environmental Laboratory Accreditation Program (NELAP) certification requirements. If the data submitted exhibits a substantial variance from the DERM split sample analysis, a complete re-sampling using two independent certified laboratories will be required.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of the referenced plan. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

Delivering Excellence Every Day

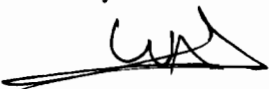
Alice Bravo, Assistant City Manager
City of Miami, Douglas Park
HWR-773
April 17, 2014
Page 2 of 2

Therefore, within sixty (60) days of receipt of this letter, you are hereby required to submit to DERM for review two copies of a Site Assessment Report (SAR), one paper and one electronic PDF on CD, prepared in accordance with Section 24-44 (2), Code of Miami-Dade County that must address the above comments.

Failure to adhere to the items and timeframes stipulated above may result in enforcement action for this site.

If you have any questions regarding this letter, please contact Rob Graessel of the Environmental Assessment Section at graesr@miamidade.gov, or (305) 372-6700, or at the letterhead address.

Sincerely



Wilbur Mayorga, P.E., Chief
Environmental Monitoring & Restoration Division

WM/rg

Attachments: DERM letters of February 19, 2014 & November 21, 2013

pc: Harry James, City of Miami Public Works (hjames@miamigov.com)
Jeovanny Rodriguez, City of Miami Capital Improvements (jeovannyrodriguez@miamigov.com)
Samir Elmir, Florida Dept. of Health (samir.elmir@flhealth.gov)



Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982

miamidade.gov

February 19, 2014

Ms. Alice N. Bravo, P.E.
Assistant City Manager - Chief of Infrastructure
City of Miami
444 SW 2nd Avenue
Miami, FL 33130

Certified Mail No. 7011 0470 0002 4386 8979
Return Receipt Requested

Re: Solid Waste Delineation Report dated January 2014, prepared by URS Corporation for the Notice of Violation dated November 21, 2013 for the City of Miami, Douglas Park (HWR-773) located at, near, or in the vicinity of 2795 SW 37th Avenue, Miami, Miami-Dade County, Florida.

Dear Ms. Bravo:

The Miami-Dade County Department of Regulatory & Economic Resources, Division of Environmental Resources Management (DERM) has reviewed the above referenced document received January 31, 2014.

Based on the vertical and horizontal extent of solid waste reported at this facility, specifically at the property boundaries, additional solid waste delineation is required offsite. Additionally, based on the types and percentage of solid waste encountered, methane assessment shall be performed along the southeastern and eastern property boundary of the park in the locations of highest concentration and greatest thickness of solid waste, e.g. T-10/SB-17 and T-8/SB-8B.

Therefore, within thirty (30) days of receipt of this letter an addendum to the Solid Waste Delineation Report addressing the above comments and the Sampling Plan requested specifically in comment 2.II. of the attached DERM letter dated November 21, 2013, shall be submitted to my attention. Additionally, the Sampling Plan shall include offsite soil assessment of the residential property immediately east of the park, in accordance with comment 2.II. of the aforementioned letter.

Failure to adhere to the items and timeframes stipulated above may result in enforcement action for this site.

If you have any questions regarding this letter, please contact Rob Graessel of the Environmental Assessment Section at graesr@miamidade.gov, or (305) 372-6700, or at the letterhead address.

Sincerely

[Handwritten signature]

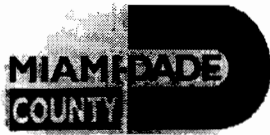
Wilbur Mayorga, P.E., Chief
Environmental Monitoring & Restoration Division

KS/rg

Attachment: DERM letter of November 21, 2013

pc: Harry James, City of Miami Public Works (hjames@miamigov.com)
Jeovanny Rodriguez, City of Miami Capital Improvements (jeovannyrodriguez@miamigov.com)
Samir Elmir, Florida Dept. of Health (samir.elmir@flhealth.gov)

Delivering Excellence Every Day



Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982

miamidade.gov

November 21, 2013

CERTIFIED MAIL NO: 7011 0470 0002 4387 5335
RETURN RECEIPT REQUESTED

Alice Bravo, P.E.
Assistant City Manager - Chief of Infrastructure
City of Miami
444 SW 2nd Avenue
Miami, FL 33130

Re: City of Miami (the City), Douglas Park (HWR-773) located at, near or in the vicinity of 2795 SW 37 Ave, City of Miami, FL

Dear Ms. Bravo:

On October 23 and November 13, 2013, staff from the Department of Regulatory and Economic Resources - Division of Environmental Resources Management (DERM) inspected and sampled the referenced site as a part of the ongoing evaluation of the areas surrounding the former Coconut Grove incinerator. DERM's inspection revealed the presence of solid waste, the physical characteristics of which were similar to the material documented at Blanche Park located 3045 Shipping Ave and Merrie Christmas Park located in the vicinity of SW 42 Avenue and Barbarossa Avenue. Additionally, preliminary laboratory results (received on November 20, 2013) for soil samples obtained on November 13, 2013 indicates the presence of antimony, arsenic, barium, copper, iron, and lead above screening criteria.

Be advised that the above-mentioned soil concentrations constitute violations of the Miami-Dade County Code, specifically, Sections 24-44, 24-27, 24-28, and 24-29. Therefore, DERM requires the City to:

1. Immediately implement measures to eliminate contact with the solid waste and exposure to the contaminated soil.

To ensure no exposure to the documented solid waste DERM recommends that the park be closed until such time as the assessment required in Item #2 below is completed,

2. Within thirty (30) day of receipt of this correspondence; submit to the DERM for review and approval:
 1. A solid waste delineation report. The report shall provide delineation (accomplished through trenching or the installation of soil borings) of the horizontal and vertical extent of the solid waste. At each trenching or soil boring location, the thickness of solid waste (including depth at which solid waste is first encountered and depth at which solid waste terminates), the

Delivering Excellence Every Day

Ms. Bravo
Re: City of Miami Douglas Park (HWR-773)
November 21, 2013
2 of 2

type(s) of solid waste encountered and the percentage of solid waste present shall be recorded and summarized in tabular format.

- II. Based on the solid waste delineation, submit a sampling plan that accomplishes delineation of the soil contamination (degree and extent). The plan shall be developed utilizing a random sampling grid pattern consisting of appropriately sized grids (e.g., 100 feet by 100 feet). The number of grids selected for sampling may be progressively minimized moving away from the footprint of the solid waste area(s). Within each selected sampling grid, a 12 point composite sample shall be collected from the 0-6" and 6"-24" intervals and the sample analyzed for As, Ba, Pb, Al, Cu, Sb and Fe. Based on the metal results, a plan for sampling and analyzing a subset of the grid locations for dioxins, PCBs, Hg, Cr, Cd, Ag and Se shall be submitted to DERM for review and approval. Additionally, a discrete soil boring shall be advanced in the center of each sampling grid and the 0-6", 6"-24" and 24"-48" intervals sampled and analyzed for the parameters listed above (including dioxins and PCBs as appropriate). Additional delineation, including vertical delineation below 48", may be required.

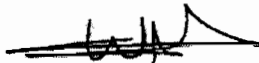
Depending on the thickness of solid waste encountered, the sampling plan shall include a representative number of monitoring wells to allow for groundwater assessment. At a minimum, any irrigation wells present at the site shall be sampled for the parameters listed above, including dioxins and PCBs.

The consultant collecting the samples shall perform field sampling work in accordance with the Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC). The laboratory analyzing the samples shall perform laboratory analyses pursuant to the National Environmental Laboratory Accreditation Program (NELAP) certification requirements.

DERM reserves the right to split samples with the consultant as deemed necessary; therefore, DERM shall be notified via email a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to bucknl@miamidade.gov as well as to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

If you have any questions concerning the above contact Lorna Bucknor (bucknl@miamidade.gov) or myself (mayorw@miamidade.gov) or via telephone at (305) 372-6700.

Sincerely,



Wilbur Mayorga, P.E. Chief
Environmental Monitoring and Restoration Division

ec: Jeovanny Rodriquez, City of Miami - jeovannyrodriguez@miamigov.com
Lee Hefty, Director, DERM

Appendix B

Photo Log

Appendix B: Photo Log
Douglas Park – Environmental Site Assessment
May 2014



Incinerator “ash fill” material at SB-9



Sand mixed with “ash fill” at SB-15 in the children’s playground

Appendix B: Photo Log
Douglas Park – Environmental Site Assessment
May 2014



Incinerator material at children's playground



Unrecognized incinerator material at SB-18

Appendix B: Photo Log

Douglas Park – Environmental Site Assessment

May 2014



At SB-22, the infield clay/sand mix was only 4" thick followed by incinerator ash fill material



Incinerator "ash fill" material and stained residues in the infield at SB-22

Appendix B: Photo Log

Douglas Park – Environmental Site Assessment

May 2014



Incinerator fill and stained residue material at SB-19



Methane gas probe installation activities at MP-4

Appendix B: Photo Log

Douglas Park – Environmental Site Assessment

May 2014



Monitoring well installation activities at MW-1



Monitoring well development activities at MW-2

Appendix C

Soil Boring Logs and Chains of Custody

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: SB-14	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Torsalich / URS	type: dia:
DATE(S): 4-23	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER:	type: from: to:
TOTAL BORING DEPTH:	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				Playground sandbox sand* *Sand with < 1% glass frag
	6-12"	---		---	* Sand w/ < 1% glass frag
	12-18"	---		---	** soil and sand with < 1% glass frag
	18-24"	---		---	55% soil, 35% sand, 5% linerock, < 1% debris
		---		---	
		---		---	** a black liner was observed, not intact.
		---		---	this liner was not found at any of the other
		---		---	playground soil boring locations.
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	
		---		---	

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1135

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: SB-15	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Torsalich/URS	type: dia:
DATE(S): 4-23	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER:	type: from: to:
TOTAL BORING DEPTH:	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				Playground sand sand* (0-6) 10. 45
	6-12"	---		---	10% sand, 40% soil F-11**
	12-18"	---		---	60% soil, 20% sand, 2% glass frag
	18-24"	---		---	60% debris composed of 2** 1045
		---		---	glass frags, a mud/clay
		---		---	material containing heterogeneity
		---		---	sized glass frag (0.1-0.25 inches)
		---		---	and other debris 30% sand
		---		---	10% other unrecognizable
		---		---	material
		---		---	** fill material
		---		---	Mixed sand + incinerator
		---		---	ash type material

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: SB-19	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Torsalek / URS	type: dia:
DATE(S): 4-23	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER:	type: from: to:
TOTAL BORING DEPTH:	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				0-3" Top soil w/ grass 3"-6" Red clay
	6-12"	---		---	6"-9" Red clay 11"-12" Limerock
	12-18"	---		---	Limerock with ~20% debris
	18-24"	---		---	Limerock " "
	2-4	---		---	" " " "
	4-6	---		---	Limerock with debris
	6-8	---		---	
	8-10	---		---	
	10-12	---		---	
	12-14	---		---	
	14-16	---		---	
	16-18	---		---	
	18-20	---		---	

1355

1355

Appendix D

Laboratory Analytical Results (Soils)

May 28, 2014

Vivek Kamath
URS Miami
7650 NW 19th St
Miami, FL 33126

RE: Project: Douglas Park
Pace Project No.: 35135312

Dear Vivek Kamath:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

cc: Babu Madabhushi, URS Miami
Paula Sessions, URS Miami



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Douglas Park
Pace Project No.: 35135312

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
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
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Washington Certification #: C955
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: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35135312001	SB-1 (0-6")	Solid	04/23/14 10:42	04/24/14 18:15
35135312002	SB-1 (6"-2)	Solid	04/23/14 10:50	04/24/14 18:15
35135312003	SB-2 (0-6")	Solid	04/23/14 10:55	04/24/14 18:15
35135312004	SB-2 (6"-2)	Solid	04/23/14 11:00	04/24/14 18:15
35135312005	SB-3 (0-6")	Solid	04/23/14 11:12	04/24/14 18:15
35135312006	SB-3 (6"-2)	Solid	04/23/14 11:19	04/24/14 18:15
35135312007	SB-4 (0-6")	Solid	04/23/14 11:20	04/24/14 18:15
35135312008	SB-4 (6"-2)	Solid	04/23/14 11:28	04/24/14 18:15
35135312009	SB-5 (0-6")	Solid	04/23/14 11:37	04/24/14 18:15
35135312010	SB-5 (6"-2)	Solid	04/23/14 11:45	04/24/14 18:15
35135312011	SB-6 (0-6")	Solid	04/23/14 11:51	04/24/14 18:15
35135312012	SB-6 (6"-2)	Solid	04/23/14 11:55	04/24/14 18:15
35135312013	SB-7 (0-6")	Solid	04/23/14 12:05	04/24/14 18:15
35135312014	SB-7 (6"-2)	Solid	04/23/14 12:12	04/24/14 18:15
35135312015	SB-8 (0-6")	Solid	04/23/14 12:17	04/24/14 18:15
35135312016	SB-8 (6"-2)	Solid	04/23/14 12:25	04/24/14 18:15
35135312017	SB-9 (0-6")	Solid	04/23/14 13:30	04/24/14 18:15
35135312018	SB-9 (6"-2)	Solid	04/23/14 13:35	04/24/14 18:15
35135312019	SB-10 (0-6")	Solid	04/23/14 13:18	04/24/14 18:15
35135312020	SB-10 (6"-2)	Solid	04/23/14 13:25	04/24/14 18:15
35135312021	SB-11 (0-6")	Solid	04/23/14 14:10	04/24/14 18:15
35135312022	SB-11 (6"-2)	Solid	04/23/14 14:10	04/24/14 18:15
35135312023	SB-12 (0-6")	Solid	04/23/14 10:50	04/24/14 18:15
35135312024	SB-12 (6"-2)	Solid	04/23/14 11:02	04/24/14 18:15
35135312025	SB-13 (0-6")	Solid	04/23/14 11:15	04/24/14 18:15
35135312026	SB-13 (6"-2)	Solid	04/23/14 11:15	04/24/14 18:15
35135312027	SB-14 (0-6")	Solid	04/23/14 11:40	04/24/14 18:15
35135312028	SB-14 (6"-2)	Solid	04/23/14 11:35	04/24/14 18:15
35135312029	SB-15 (0-6")	Solid	04/23/14 10:45	04/24/14 18:15
35135312030	SB-15 (6"-2)	Solid	04/23/14 10:45	04/24/14 18:15
35135312031	SB-16 (0-6")	Solid	04/23/14 12:06	04/24/14 18:15
35135312032	SB-16 (6"-2)	Solid	04/23/14 12:09	04/24/14 18:15
35135312033	SB-17 (0-6")	Solid	04/23/14 13:30	04/24/14 18:15
35135312034	SB-17 (6"-2)	Solid	04/23/14 13:35	04/24/14 18:15
35135312035	SB-18 (0-6")	Solid	04/23/14 13:45	04/24/14 18:15
35135312036	SB-18 (6"-2)	Solid	04/23/14 13:45	04/24/14 18:15
35135312037	SB-19 (0-6")	Solid	04/23/14 13:55	04/24/14 18:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35135312038	SB-19 (6"-2)	Solid	04/23/14 13:55	04/24/14 18:15
35135312039	SB-20 (0-6")	Solid	04/23/14 15:30	04/24/14 18:15
35135312040	SB-20 (6"-2)	Solid	04/23/14 15:35	04/24/14 18:15
35135312041	SB-21 (0-6")	Solid	04/23/14 15:42	04/24/14 18:15
35135312042	SB-21 (6"-2)	Solid	04/23/14 15:50	04/24/14 18:15
35135312043	SB-22 (0-6")	Solid	04/23/14 13:50	04/24/14 18:15
35135312044	SB-22 (6"-2)	Solid	04/23/14 13:55	04/24/14 18:15
35135312045	SB-23 (0-6")	Solid	04/23/14 14:40	04/24/14 18:15
35135312046	SB-23 (6"-2)	Solid	04/23/14 14:46	04/24/14 18:15
35135312047	SB-24 (0-6")	Solid	04/23/14 16:55	04/24/14 18:15
35135312048	SB-24 (6"-2)	Solid	04/23/14 17:00	04/24/14 18:15
35135312049	SB-25 (0-6")	Solid	04/23/14 14:52	04/24/14 18:15
35135312050	SB-25 (6"-2)	Solid	04/23/14 15:00	04/24/14 18:15
35135312051	SB-26 (0-6")	Solid	04/23/14 15:03	04/24/14 18:15
35135312052	SB-26 (6"-2)	Solid	04/23/14 15:08	04/24/14 18:15
35135312053	SB-27 (0-6")	Solid	04/23/14 14:28	04/24/14 18:15
35135312054	SB-27 (6"-2)	Solid	04/23/14 14:38	04/24/14 18:15
35135312055	SB-28 (0-6")	Solid	04/23/14 15:12	04/24/14 18:15
35135312056	SB-28 (6"-2)	Solid	04/23/14 15:18	04/24/14 18:15
35135312057	SB-29 (0-6")	Solid	04/23/14 14:10	04/24/14 18:15
35135312058	SB-29 (6"-2)	Solid	04/23/14 14:15	04/24/14 18:15
35135312059	SB-30 (0-6")	Solid	04/23/14 16:00	04/24/14 18:15
35135312060	SB-30 (6"-2)	Solid	04/23/14 16:10	04/24/14 18:15
35135312061	SB-31 (0-6")	Solid	04/23/14 17:07	04/24/14 18:15
35135312062	SB-31 (6"-2)	Solid	04/23/14 17:12	04/24/14 18:15
35135312063	SB-32 (0-6")	Solid	04/23/14 17:05	04/24/14 18:15
35135312064	SB-32 (6"-2)	Solid	04/23/14 17:05	04/24/14 18:15
35135312065	SB-33 (0-6")	Solid	04/23/14 17:13	04/24/14 18:15
35135312066	SB-33 (6"-2)	Solid	04/23/14 17:18	04/24/14 18:15
35135312067	SB-34 (0-6")	Solid	04/23/14 16:12	04/24/14 18:15
35135312068	SB-34 (6"-2)	Solid	04/23/14 16:18	04/24/14 18:15
35135312069	SB-35 (0-6")	Solid	04/23/14 16:22	04/24/14 18:15
35135312070	SB-35 (6"-2)	Solid	04/23/14 16:30	04/24/14 18:15
35135312071	SB-36 (0-6")	Solid	04/23/14 16:36	04/24/14 18:15
35135312072	SB-36 (6"-2)	Solid	04/23/14 16:45	04/24/14 18:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Douglas Park
Pace Project No.: 35135312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135312001	SB-1 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312002	SB-1 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312003	SB-2 (0-6")	EPA 6010	CRT	11	PASI-O
		EPA 7471	HEA	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312004	SB-2 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312005	SB-3 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312006	SB-3 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312007	SB-4 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312008	SB-4 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312009	SB-5 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312010	SB-5 (6"-2)	EPA 6010	CRT, HEA	11	PASI-O
		EPA 7471	HEA	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312011	SB-6 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312012	SB-6 (6"-2)	EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	HEA	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312013	SB-7 (0-6")	EPA 6010	HEA	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312014	SB-7 (6"-2)	EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT, HEA	11	PASI-O
		EPA 7471	HEA	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312015	SB-8 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312016	SB-8 (6"-2)	EPA 6010	CRT	7	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135312017	SB-9 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312018	SB-9 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312019	SB-10 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312020	SB-10 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312021	SB-11 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312022	SB-11 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312023	SB-12 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312024	SB-12 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312025	SB-13 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312026	SB-13 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312027	SB-14 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312028	SB-14 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312029	SB-15 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312030	SB-15 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312031	SB-16 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135312032	SB-16 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312033	SB-17 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312034	SB-17 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312035	SB-18 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312036	SB-18 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312037	SB-19 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312038	SB-19 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312039	SB-20 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312040	SB-20 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT, HEA	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312041	SB-21 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312042	SB-21 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312043	SB-22 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312044	SB-22 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312045	SB-23 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312046	SB-23 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Douglas Park
Pace Project No.: 35135312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135312047	SB-24 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312048	SB-24 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	HEA	7	PASI-O
35135312049	SB-25 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312050	SB-25 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312051	SB-26 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312052	SB-26 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312053	SB-27 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312054	SB-27 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312055	SB-28 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312056	SB-28 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312057	SB-29 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312058	SB-29 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312059	SB-30 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	7	PASI-O
35135312060	SB-30 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	9	PASI-O
35135312061	SB-31 (0-6")	ASTM D2974-87	GPW	1	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
35135312062	SB-31 (6"-2)	ASTM D2974-87	GPW	1	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135312063	SB-32 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312064	SB-32 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312065	SB-33 (0-6")	EPA 6010	HEA	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312066	SB-33 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312067	SB-34 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312068	SB-34 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312069	SB-35 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312070	SB-35 (6"-2)	EPA 6010	CRT	11	PASI-O
		EPA 7471	CRT	1	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312071	SB-36 (0-6")	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O
35135312072	SB-36 (6"-2)	EPA 6010	CRT	7	PASI-O
		ASTM D2974-87	GPW	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park

Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312001	SB-1 (0-6")					
EPA 6010	Aluminum	838 mg/kg		5.8	05/08/14 09:28	J(M1)
EPA 6010	Arsenic	0.88 mg/kg		0.58	05/08/14 09:28	
EPA 6010	Barium	13.8 mg/kg		0.58	05/08/14 09:28	
EPA 6010	Copper	9.8 mg/kg		0.29	05/08/14 09:28	
EPA 6010	Iron	1140 mg/kg		2.3	05/08/14 09:28	J(M1)
EPA 6010	Lead	33.0 mg/kg		0.58	05/08/14 09:28	J(M1)
ASTM D2974-87	Percent Moisture	11.5 %		0.10	05/07/14 09:14	
35135312002	SB-1 (6"-2)					
EPA 6010	Aluminum	868 mg/kg		5.3	05/08/14 09:40	
EPA 6010	Arsenic	0.38 l mg/kg		0.53	05/08/14 09:40	
EPA 6010	Barium	9.0 mg/kg		0.53	05/08/14 09:40	
EPA 6010	Copper	4.0 mg/kg		0.27	05/08/14 09:40	
EPA 6010	Iron	661 mg/kg		2.1	05/08/14 09:40	
EPA 6010	Lead	12.0 mg/kg		0.53	05/08/14 09:40	
ASTM D2974-87	Percent Moisture	10.1 %		0.10	05/07/14 09:15	
35135312003	SB-2 (0-6")					
EPA 6010	Aluminum	2180 mg/kg		5.8	05/08/14 11:59	
EPA 6010	Antimony	3.9 mg/kg		0.87	05/08/14 11:59	
EPA 6010	Arsenic	8.4 mg/kg		0.58	05/08/14 11:59	
EPA 6010	Barium	96.7 mg/kg		0.58	05/08/14 11:59	
EPA 6010	Cadmium	1.1 mg/kg		0.058	05/08/14 11:59	
EPA 6010	Chromium	21.0 mg/kg		0.29	05/08/14 11:59	
EPA 6010	Copper	128 mg/kg		0.29	05/08/14 11:59	
EPA 6010	Iron	14800 mg/kg		2.3	05/08/14 11:59	
EPA 6010	Lead	228 mg/kg		0.58	05/08/14 11:59	
EPA 6010	Silver	0.65 mg/kg		0.29	05/08/14 11:59	
EPA 7471	Mercury	0.30 mg/kg		0.0088	05/16/14 13:43	J(M1)
ASTM D2974-87	Percent Moisture	13.1 %		0.10	05/07/14 09:16	
35135312004	SB-2 (6"-2)					
EPA 6010	Aluminum	1350 mg/kg		5.5	05/08/14 12:14	
EPA 6010	Antimony	2.2 mg/kg		0.82	05/08/14 12:14	
EPA 6010	Arsenic	0.91 mg/kg		0.55	05/08/14 12:14	
EPA 6010	Barium	20.4 mg/kg		0.55	05/08/14 12:14	
EPA 6010	Copper	132 mg/kg		0.27	05/08/14 12:14	
EPA 6010	Iron	1270 mg/kg		2.2	05/08/14 12:14	
EPA 6010	Lead	79.8 mg/kg		0.55	05/08/14 12:14	
ASTM D2974-87	Percent Moisture	9.7 %		0.10	05/07/14 09:16	
35135312005	SB-3 (0-6")					
EPA 6010	Aluminum	1360 mg/kg		5.9	05/08/14 12:18	
EPA 6010	Antimony	0.64 l mg/kg		0.89	05/08/14 12:18	
EPA 6010	Arsenic	2.1 mg/kg		0.59	05/08/14 12:18	
EPA 6010	Barium	22.9 mg/kg		0.59	05/08/14 12:18	
EPA 6010	Copper	67.5 mg/kg		0.30	05/08/14 12:18	
EPA 6010	Iron	9480 mg/kg		2.4	05/08/14 12:18	
EPA 6010	Lead	40.0 mg/kg		0.59	05/08/14 12:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312005	SB-3 (0-6")					
ASTM D2974-87	Percent Moisture	14.5 %		0.10	05/07/14 09:17	
35135312006	SB-3 (6"-2)					
EPA 6010	Aluminum	1320 mg/kg		5.4	05/08/14 12:22	
EPA 6010	Arsenic	1.5 mg/kg		0.54	05/08/14 12:22	
EPA 6010	Barium	16.9 mg/kg		0.54	05/08/14 12:22	
EPA 6010	Copper	58.4 mg/kg		0.27	05/08/14 12:22	
EPA 6010	Iron	1900 mg/kg		2.2	05/08/14 12:22	
EPA 6010	Lead	31.2 mg/kg		0.54	05/08/14 12:22	
ASTM D2974-87	Percent Moisture	6.4 %		0.10	05/07/14 09:17	
35135312007	SB-4 (0-6")					
EPA 6010	Aluminum	1060 mg/kg		5.4	05/08/14 12:26	
EPA 6010	Antimony	0.71 l mg/kg		0.81	05/08/14 12:26	
EPA 6010	Arsenic	2.5 mg/kg		0.54	05/08/14 12:26	
EPA 6010	Barium	22.0 mg/kg		0.54	05/08/14 12:26	
EPA 6010	Copper	26.4 mg/kg		0.27	05/08/14 12:26	
EPA 6010	Iron	1680 mg/kg		2.2	05/08/14 12:26	
EPA 6010	Lead	139 mg/kg		0.54	05/08/14 12:26	
ASTM D2974-87	Percent Moisture	11.2 %		0.10	05/07/14 09:17	
35135312008	SB-4 (6"-2)					
EPA 6010	Aluminum	275 mg/kg		5.5	05/08/14 12:30	
EPA 6010	Barium	11.5 mg/kg		0.55	05/08/14 12:30	
EPA 6010	Copper	235 mg/kg		0.27	05/08/14 12:30	
EPA 6010	Iron	365 mg/kg		2.2	05/08/14 12:30	
EPA 6010	Lead	21.6 mg/kg		2.7	05/08/14 15:53	D3
ASTM D2974-87	Percent Moisture	8.0 %		0.10	05/07/14 09:18	
35135312009	SB-5 (0-6")					
EPA 6010	Aluminum	1760 mg/kg		5.8	04/28/14 11:54	J(M1)
EPA 6010	Antimony	1.8 mg/kg		0.87	04/28/14 11:54	J(R1)
EPA 6010	Arsenic	4.3 mg/kg		0.58	04/28/14 11:54	
EPA 6010	Barium	68.5 mg/kg		0.58	04/28/14 11:54	
EPA 6010	Copper	75.8 mg/kg		0.29	04/28/14 11:54	J(M1),J(R1)
EPA 6010	Iron	4570 mg/kg		2.3	04/28/14 11:54	J(M1)
EPA 6010	Lead	215 mg/kg		0.58	04/28/14 11:54	
ASTM D2974-87	Percent Moisture	13.2 %		0.10	04/29/14 09:46	
35135312010	SB-5 (6"-2)					
EPA 6010	Aluminum	4910 mg/kg		5.7	04/28/14 13:32	
EPA 6010	Antimony	32.7 mg/kg		0.86	04/28/14 13:32	
EPA 6010	Arsenic	25.6 mg/kg		0.57	04/28/14 13:32	
EPA 6010	Barium	829 mg/kg		0.57	04/28/14 13:32	
EPA 6010	Cadmium	3.8 mg/kg		0.057	04/28/14 13:32	
EPA 6010	Chromium	34.6 mg/kg		0.29	04/28/14 13:32	
EPA 6010	Copper	1020 mg/kg		0.29	04/28/14 13:32	
EPA 6010	Iron	52300 mg/kg		11.5	04/29/14 04:13	D4
EPA 6010	Lead	3000 mg/kg		2.9	04/29/14 04:13	D4

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312010	SB-5 (6"-2)					
EPA 6010	Silver	4.2	mg/kg	0.29	04/28/14 13:32	
EPA 7471	Mercury	0.23	mg/kg	0.0098	05/16/14 13:49	
ASTM D2974-87	Percent Moisture	16.4	%	0.10	04/29/14 09:47	
35135312011	SB-6 (0-6")					
EPA 6010	Aluminum	864	mg/kg	5.3	05/08/14 12:33	
EPA 6010	Antimony	0.64	l mg/kg	0.80	05/08/14 12:33	
EPA 6010	Arsenic	5.9	mg/kg	0.53	05/08/14 12:33	
EPA 6010	Barium	16.3	mg/kg	0.53	05/08/14 12:33	
EPA 6010	Copper	19.8	mg/kg	0.27	05/08/14 12:33	
EPA 6010	Iron	1790	mg/kg	2.1	05/08/14 12:33	
EPA 6010	Lead	89.8	mg/kg	0.53	05/08/14 12:33	
ASTM D2974-87	Percent Moisture	8.4	%	0.10	05/07/14 09:19	
35135312012	SB-6 (6"-2)					
EPA 6010	Aluminum	3870	mg/kg	5.8	05/08/14 12:37	
EPA 6010	Antimony	13.7	mg/kg	0.87	05/08/14 12:37	
EPA 6010	Arsenic	11.9	mg/kg	0.58	05/08/14 12:37	
EPA 6010	Barium	338	mg/kg	0.58	05/08/14 12:37	
EPA 6010	Cadmium	2.8	mg/kg	0.058	05/08/14 12:37	
EPA 6010	Chromium	29.5	mg/kg	0.29	05/08/14 12:37	
EPA 6010	Copper	288	mg/kg	0.29	05/08/14 12:37	
EPA 6010	Iron	41000	mg/kg	46.5	05/08/14 15:08	D4
EPA 6010	Lead	643	mg/kg	0.58	05/08/14 12:37	
EPA 6010	Silver	3.0	mg/kg	0.29	05/08/14 12:37	
EPA 7471	Mercury	0.18	mg/kg	0.0090	05/16/14 14:39	
ASTM D2974-87	Percent Moisture	12.6	%	0.10	05/07/14 09:19	
35135312013	SB-7 (0-6")					
EPA 6010	Aluminum	928	mg/kg	5.4	04/28/14 13:47	
EPA 6010	Antimony	1.0	mg/kg	0.82	04/28/14 13:47	
EPA 6010	Arsenic	4.8	mg/kg	0.54	04/28/14 13:47	
EPA 6010	Barium	38.8	mg/kg	0.54	04/28/14 13:47	
EPA 6010	Copper	60.8	mg/kg	0.27	04/28/14 13:47	
EPA 6010	Iron	3640	mg/kg	2.2	04/28/14 13:47	
EPA 6010	Lead	79.5	mg/kg	0.54	04/28/14 13:47	
ASTM D2974-87	Percent Moisture	9.3	%	0.10	04/29/14 09:47	
35135312014	SB-7 (6"-2)					
EPA 6010	Aluminum	12100	mg/kg	6.2	04/28/14 13:51	
EPA 6010	Antimony	112	mg/kg	0.93	04/28/14 13:51	
EPA 6010	Arsenic	23.2	mg/kg	0.62	04/28/14 13:51	
EPA 6010	Barium	1020	mg/kg	0.62	04/28/14 13:51	
EPA 6010	Cadmium	1800	mg/kg	0.062	04/28/14 13:51	
EPA 6010	Chromium	50.4	mg/kg	0.31	04/28/14 13:51	
EPA 6010	Copper	1060	mg/kg	0.31	04/28/14 13:51	
EPA 6010	Iron	37200	mg/kg	12.5	04/29/14 04:17	D4
EPA 6010	Lead	4360	mg/kg	3.1	04/29/14 04:17	D4
EPA 6010	Selenium	0.90	l mg/kg	0.93	04/28/14 13:51	

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312014	SB-7 (6"-2)					
EPA 6010	Silver	6.2	mg/kg	0.31	04/28/14 13:51	
EPA 7471	Mercury	0.30	mg/kg	0.0099	05/16/14 14:42	
ASTM D2974-87	Percent Moisture	20.5	%	0.10	04/29/14 09:47	
35135312015	SB-8 (0-6")					
EPA 6010	Aluminum	1810	mg/kg	5.5	05/08/14 12:42	
EPA 6010	Antimony	0.44	l mg/kg	0.83	05/08/14 12:42	
EPA 6010	Arsenic	11.5	mg/kg	0.55	05/08/14 12:42	
EPA 6010	Barium	18.2	mg/kg	0.55	05/08/14 12:42	
EPA 6010	Copper	10	mg/kg	0.28	05/08/14 12:42	
EPA 6010	Iron	7240	mg/kg	2.2	05/08/14 12:42	
EPA 6010	Lead	29.9	mg/kg	0.55	05/08/14 12:42	
ASTM D2974-87	Percent Moisture	10.5	%	0.10	05/07/14 09:20	
35135312016	SB-8 (6"-2)					
EPA 6010	Aluminum	1230	mg/kg	5.8	05/08/14 12:46	
EPA 6010	Antimony	1.9	mg/kg	0.87	05/08/14 12:46	
EPA 6010	Arsenic	4.3	mg/kg	0.58	05/08/14 12:46	
EPA 6010	Barium	71.3	mg/kg	0.58	05/08/14 12:46	
EPA 6010	Copper	82.6	mg/kg	0.29	05/08/14 12:46	
EPA 6010	Iron	4700	mg/kg	2.3	05/08/14 12:46	
EPA 6010	Lead	206	mg/kg	0.58	05/08/14 12:46	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	05/07/14 09:21	
35135312017	SB-9 (0-6")					
EPA 6010	Aluminum	876	mg/kg	5.6	05/08/14 12:49	
EPA 6010	Antimony	0.95	mg/kg	0.84	05/08/14 12:49	
EPA 6010	Arsenic	5.0	mg/kg	0.56	05/08/14 12:49	
EPA 6010	Barium	61.2	mg/kg	0.56	05/08/14 12:49	
EPA 6010	Copper	45.8	mg/kg	0.28	05/08/14 12:49	
EPA 6010	Iron	2750	mg/kg	2.2	05/08/14 12:49	
EPA 6010	Lead	184	mg/kg	0.56	05/08/14 12:49	
ASTM D2974-87	Percent Moisture	9.0	%	0.10	05/07/14 09:21	
35135312018	SB-9 (6"-2)					
EPA 6010	Aluminum	7590	mg/kg	5.8	05/08/14 13:04	
EPA 6010	Antimony	28.8	mg/kg	0.88	05/08/14 13:04	
EPA 6010	Arsenic	29.7	mg/kg	0.58	05/08/14 13:04	
EPA 6010	Barium	578	mg/kg	0.58	05/08/14 13:04	
EPA 6010	Cadmium	4.7	mg/kg	0.058	05/08/14 13:04	
EPA 6010	Chromium	37.6	mg/kg	0.29	05/08/14 13:04	
EPA 6010	Copper	1500	mg/kg	5.8	05/08/14 15:11	D4
EPA 6010	Iron	39400	mg/kg	46.7	05/08/14 15:11	D4
EPA 6010	Lead	1890	mg/kg	11.7	05/08/14 15:11	D4
EPA 6010	Silver	4.1	mg/kg	0.29	05/08/14 13:04	
EPA 7471	Mercury	0.46	mg/kg	0.0093	05/18/14 10:36	
ASTM D2974-87	Percent Moisture	14.8	%	0.10	05/07/14 09:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35135312019	SB-10 (0-6")					
EPA 6010	Aluminum	5940	mg/kg	5.7	05/08/14 13:09	
EPA 6010	Antimony	17.0	mg/kg	0.86	05/08/14 13:09	
EPA 6010	Arsenic	16.7	mg/kg	0.57	05/08/14 13:09	
EPA 6010	Barium	409	mg/kg	0.57	05/08/14 13:09	
EPA 6010	Cadmium	3.1	mg/kg	0.057	05/08/14 13:09	
EPA 6010	Chromium	31.8	mg/kg	0.29	05/08/14 13:09	
EPA 6010	Copper	515	mg/kg	0.29	05/08/14 13:09	
EPA 6010	Iron	21100	mg/kg	2.3	05/08/14 13:09	
EPA 6010	Lead	958	mg/kg	0.57	05/08/14 13:09	
EPA 6010	Silver	3.5	mg/kg	0.29	05/08/14 13:09	
EPA 7471	Mercury	0.11	mg/kg	0.0090	05/18/14 10:39	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	05/07/14 09:22	
35135312020	SB-10 (6"-2)					
EPA 6010	Aluminum	5080	mg/kg	5.8	05/08/14 13:13	
EPA 6010	Antimony	18.3	mg/kg	0.88	05/08/14 13:13	
EPA 6010	Arsenic	15.7	mg/kg	0.58	05/08/14 13:13	
EPA 6010	Barium	285	mg/kg	0.58	05/08/14 13:13	
EPA 6010	Cadmium	2.4	mg/kg	0.058	05/08/14 13:13	
EPA 6010	Chromium	26.3	mg/kg	0.29	05/08/14 13:13	
EPA 6010	Copper	454	mg/kg	0.29	05/08/14 13:13	
EPA 6010	Iron	17400	mg/kg	2.3	05/08/14 13:13	
EPA 6010	Lead	1860	mg/kg	11.7	05/08/14 16:11	D4
EPA 6010	Silver	3.0	mg/kg	0.29	05/08/14 13:13	
EPA 7471	Mercury	0.19	mg/kg	0.0092	05/18/14 10:41	
ASTM D2974-87	Percent Moisture	12.5	%	0.10	05/07/14 09:22	
35135312021	SB-11 (0-6")					
EPA 6010	Aluminum	587	mg/kg	5.1	04/28/14 13:56	
EPA 6010	Antimony	0.64	mg/kg	0.77	04/28/14 13:56	
EPA 6010	Arsenic	8.1	mg/kg	0.51	04/28/14 13:56	
EPA 6010	Barium	11.5	mg/kg	0.51	04/28/14 13:56	
EPA 6010	Copper	14.4	mg/kg	0.26	04/28/14 13:56	
EPA 6010	Iron	2010	mg/kg	2.1	04/28/14 13:56	
EPA 6010	Lead	37.2	mg/kg	0.51	04/28/14 13:56	
ASTM D2974-87	Percent Moisture	7.2	%	0.10	04/29/14 09:48	
35135312022	SB-11 (6"-2)					
EPA 6010	Aluminum	1070	mg/kg	5.4	04/28/14 14:00	
EPA 6010	Antimony	3.7	mg/kg	0.80	04/28/14 14:00	
EPA 6010	Arsenic	57.4	mg/kg	0.54	04/28/14 14:00	
EPA 6010	Barium	53.1	mg/kg	0.54	04/28/14 14:00	
EPA 6010	Copper	85.3	mg/kg	0.27	04/28/14 14:00	
EPA 6010	Iron	5820	mg/kg	2.1	04/28/14 14:00	
EPA 6010	Lead	234	mg/kg	0.54	04/28/14 14:00	
ASTM D2974-87	Percent Moisture	9.9	%	0.10	04/29/14 09:48	
35135312023	SB-12 (0-6")					
EPA 6010	Aluminum	1200	mg/kg	5.4	05/08/14 13:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park

Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312023	SB-12 (0-6")					
EPA 6010	Antimony	3.0	mg/kg	0.80	05/08/14 13:17	
EPA 6010	Arsenic	5.4	mg/kg	0.54	05/08/14 13:17	
EPA 6010	Barium	70.6	mg/kg	0.54	05/08/14 13:17	
EPA 6010	Copper	96.7	mg/kg	0.27	05/08/14 13:17	
EPA 6010	Iron	7330	mg/kg	2.1	05/08/14 13:17	
EPA 6010	Lead	345	mg/kg	0.54	05/08/14 13:17	
ASTM D2974-87	Percent Moisture	8.6	%	0.10	05/07/14 09:23	
35135312024	SB-12 (6"-2)					
EPA 6010	Aluminum	4270	mg/kg	5.5	05/08/14 13:21	
EPA 6010	Antimony	18.1	mg/kg	0.83	05/08/14 13:21	
EPA 6010	Arsenic	21.1	mg/kg	0.55	05/08/14 13:21	
EPA 6010	Barium	755	mg/kg	0.55	05/08/14 13:21	
EPA 6010	Cadmium	5.7	mg/kg	0.055	05/08/14 13:21	
EPA 6010	Chromium	30.2	mg/kg	0.28	05/08/14 13:21	
EPA 6010	Copper	647	mg/kg	0.28	05/08/14 13:21	
EPA 6010	Iron	61400	mg/kg	44.3	05/08/14 15:15	D4
EPA 6010	Lead	2840	mg/kg	11.1	05/08/14 15:15	D4
EPA 6010	Silver	3.7	mg/kg	0.28	05/08/14 13:21	
EPA 7471	Mercury	0.091	mg/kg	0.0093	05/18/14 10:43	
ASTM D2974-87	Percent Moisture	10.9	%	0.10	05/07/14 09:23	
35135312025	SB-13 (0-6")					
EPA 6010	Aluminum	606	mg/kg	5.6	05/08/14 13:25	
EPA 6010	Arsenic	0.88	mg/kg	0.56	05/08/14 13:25	
EPA 6010	Barium	11.8	mg/kg	0.56	05/08/14 13:25	
EPA 6010	Copper	11.0	mg/kg	0.28	05/08/14 13:25	
EPA 6010	Iron	1080	mg/kg	2.2	05/08/14 13:25	
EPA 6010	Lead	13.8	mg/kg	0.56	05/08/14 13:25	
ASTM D2974-87	Percent Moisture	11.0	%	0.10	05/07/14 09:24	
35135312026	SB-13 (6"-2)					
EPA 6010	Aluminum	514	mg/kg	5.3	05/08/14 13:28	
EPA 6010	Antimony	1.5	mg/kg	0.80	05/08/14 13:28	
EPA 6010	Arsenic	3.7	mg/kg	0.53	05/08/14 13:28	
EPA 6010	Barium	20.9	mg/kg	0.53	05/08/14 13:28	
EPA 6010	Copper	22.6	mg/kg	0.27	05/08/14 13:28	
EPA 6010	Iron	3480	mg/kg	2.1	05/08/14 13:28	
EPA 6010	Lead	95.4	mg/kg	0.53	05/08/14 13:28	
ASTM D2974-87	Percent Moisture	7.8	%	0.10	05/07/14 09:24	
35135312027	SB-14 (0-6")					
EPA 6010	Aluminum	117	mg/kg	4.9	05/08/14 07:10	J(M1)
EPA 6010	Arsenic	0.36	mg/kg	0.49	05/08/14 07:10	
EPA 6010	Barium	11.6	mg/kg	0.49	05/08/14 07:10	J(M1),J(R1)
EPA 6010	Copper	9.4	mg/kg	0.25	05/08/14 07:10	J(M1)
EPA 6010	Iron	1510	mg/kg	2.0	05/08/14 07:10	J(M1),J(R1)
EPA 6010	Lead	17.5	mg/kg	0.49	05/08/14 07:10	J(M1)
ASTM D2974-87	Percent Moisture	1.2	%	0.10	05/07/14 09:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312028	SB-14 (6"-2)					
EPA 6010	Aluminum	3250 mg/kg		5.6	05/08/14 07:32	
EPA 6010	Antimony	12.5 mg/kg		0.84	05/08/14 07:32	
EPA 6010	Arsenic	18.5 mg/kg		0.56	05/08/14 07:32	
EPA 6010	Barium	747 mg/kg		0.56	05/08/14 07:32	
EPA 6010	Cadmium	3.6 mg/kg		0.056	05/08/14 07:32	
EPA 6010	Chromium	30.0 mg/kg		0.28	05/08/14 07:32	
EPA 6010	Copper	437 mg/kg		0.28	05/08/14 07:32	
EPA 6010	Iron	46400 mg/kg		11.3	05/08/14 07:36	
EPA 6010	Lead	2160 mg/kg		2.8	05/08/14 07:36	
EPA 6010	Silver	3.1 mg/kg		0.28	05/08/14 07:32	
EPA 7471	Mercury	0.092 mg/kg		0.0088	05/18/14 10:45	
ASTM D2974-87	Percent Moisture	10.5 %		0.10	05/07/14 09:25	
35135312029	SB-15 (0-6")					
EPA 6010	Aluminum	138 mg/kg		5.1	05/08/14 07:48	
EPA 6010	Barium	3.5 mg/kg		0.51	05/08/14 07:48	
EPA 6010	Copper	2.0 mg/kg		0.26	05/08/14 07:48	
EPA 6010	Iron	256 mg/kg		2.0	05/08/14 07:48	
EPA 6010	Lead	5.4 mg/kg		0.51	05/08/14 07:48	
ASTM D2974-87	Percent Moisture	3.2 %		0.10	05/07/14 09:25	
35135312030	SB-15 (6"-2)					
EPA 6010	Aluminum	947 mg/kg		5.4	05/08/14 07:52	
EPA 6010	Antimony	6.2 mg/kg		0.81	05/08/14 07:52	
EPA 6010	Arsenic	4.2 mg/kg		0.54	05/08/14 07:52	
EPA 6010	Barium	137 mg/kg		0.54	05/08/14 07:52	
EPA 6010	Copper	106 mg/kg		0.27	05/08/14 07:52	
EPA 6010	Iron	10000 mg/kg		2.2	05/08/14 07:52	
EPA 6010	Lead	339 mg/kg		0.54	05/08/14 07:52	
ASTM D2974-87	Percent Moisture	6.4 %		0.10	05/07/14 09:26	
35135312031	SB-16 (0-6")					
EPA 6010	Aluminum	1370 mg/kg		5.4	04/28/14 14:04	
EPA 6010	Arsenic	1.6 mg/kg		0.54	04/28/14 14:04	
EPA 6010	Barium	20.1 mg/kg		0.54	04/28/14 14:04	
EPA 6010	Copper	3.2 mg/kg		0.27	04/28/14 14:04	
EPA 6010	Iron	862 mg/kg		2.2	04/28/14 14:04	
EPA 6010	Lead	6.7 mg/kg		0.54	04/28/14 14:04	
ASTM D2974-87	Percent Moisture	6.7 %		0.10	04/29/14 09:49	
35135312032	SB-16 (6"-2)					
EPA 6010	Aluminum	328 mg/kg		5.2	04/28/14 14:07	
EPA 6010	Arsenic	5.4 mg/kg		0.52	04/28/14 14:07	
EPA 6010	Barium	6.3 mg/kg		0.52	04/28/14 14:07	
EPA 6010	Copper	3.1 mg/kg		0.26	04/28/14 14:07	
EPA 6010	Iron	1540 mg/kg		2.1	04/28/14 14:07	
EPA 6010	Lead	12.1 mg/kg		0.52	04/28/14 14:07	
ASTM D2974-87	Percent Moisture	4.9 %		0.10	04/29/14 09:49	J(D6)

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312033	SB-17 (0-6")					
EPA 6010	Aluminum	623 mg/kg		5.3	05/08/14 07:56	
EPA 6010	Arsenic	0.97 mg/kg		0.53	05/08/14 07:56	
EPA 6010	Barium	5.5 mg/kg		0.53	05/08/14 07:56	
EPA 6010	Copper	6.5 mg/kg		0.26	05/08/14 07:56	
EPA 6010	Iron	937 mg/kg		2.1	05/08/14 07:56	
EPA 6010	Lead	20.5 mg/kg		0.53	05/08/14 07:56	
ASTM D2974-87	Percent Moisture	3.9 %		0.10	05/07/14 09:26	
35135312034	SB-17 (6"-2)					
EPA 6010	Aluminum	1300 mg/kg		5.6	05/08/14 07:59	
EPA 6010	Antimony	0.57 mg/kg		0.84	05/08/14 07:59	
EPA 6010	Arsenic	3.2 mg/kg		0.56	05/08/14 07:59	
EPA 6010	Barium	19.7 mg/kg		0.56	05/08/14 07:59	
EPA 6010	Copper	15.4 mg/kg		0.28	05/08/14 07:59	
EPA 6010	Iron	2020 mg/kg		2.2	05/08/14 07:59	
EPA 6010	Lead	46.6 mg/kg		0.56	05/08/14 07:59	
ASTM D2974-87	Percent Moisture	10.1 %		0.10	05/07/14 09:27	
35135312035	SB-18 (0-6")					
EPA 6010	Aluminum	1000 mg/kg		5.5	05/08/14 08:14	
EPA 6010	Arsenic	3.6 mg/kg		0.55	05/08/14 08:14	
EPA 6010	Barium	11.8 mg/kg		0.55	05/08/14 08:14	
EPA 6010	Copper	19.1 mg/kg		0.27	05/08/14 08:14	
EPA 6010	Iron	2050 mg/kg		2.2	05/08/14 08:14	
EPA 6010	Lead	43.4 mg/kg		0.55	05/08/14 08:14	
ASTM D2974-87	Percent Moisture	7.9 %		0.10	05/08/14 08:52	
35135312036	SB-18 (6"-2)					
EPA 6010	Aluminum	4380 mg/kg		5.6	05/08/14 08:18	
EPA 6010	Antimony	20.8 mg/kg		0.84	05/08/14 08:18	
EPA 6010	Arsenic	12.2 mg/kg		0.56	05/08/14 08:18	
EPA 6010	Barium	346 mg/kg		0.56	05/08/14 08:18	
EPA 6010	Cadmium	3.8 mg/kg		0.056	05/08/14 08:18	
EPA 6010	Chromium	31.1 mg/kg		0.28	05/08/14 08:18	
EPA 6010	Copper	833 mg/kg		0.28	05/08/14 08:18	
EPA 6010	Iron	21700 mg/kg		2.2	05/08/14 08:18	
EPA 6010	Lead	1380 mg/kg		2.8	05/08/14 15:01	D4
EPA 6010	Silver	33.9 mg/kg		0.28	05/08/14 08:18	
EPA 7471	Mercury	0.21 mg/kg		0.0088	05/18/14 10:47	
ASTM D2974-87	Percent Moisture	9.4 %		0.10	05/08/14 08:53	
35135312037	SB-19 (0-6")					
EPA 6010	Aluminum	2660 mg/kg		5.3	05/08/14 08:23	
EPA 6010	Arsenic	2.5 mg/kg		0.53	05/08/14 08:23	
EPA 6010	Barium	3.4 mg/kg		0.53	05/08/14 08:23	
EPA 6010	Copper	2.9 mg/kg		0.27	05/08/14 08:23	
EPA 6010	Iron	7180 mg/kg		2.1	05/08/14 08:23	
EPA 6010	Lead	3.5 mg/kg		0.53	05/08/14 08:23	
ASTM D2974-87	Percent Moisture	9.1 %		0.10	05/08/14 08:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312038	SB-19 (6"-2)					
EPA 6010	Aluminum	6880 mg/kg		6.4	05/08/14 08:26	
EPA 6010	Antimony	304 mg/kg		0.96	05/08/14 08:26	
EPA 6010	Arsenic	30.0 mg/kg		0.64	05/08/14 08:26	
EPA 6010	Barium	702 mg/kg		0.64	05/08/14 08:26	
EPA 6010	Cadmium	3.6 mg/kg		0.064	05/08/14 08:26	
EPA 6010	Chromium	36.7 mg/kg		0.32	05/08/14 08:26	
EPA 6010	Copper	608 mg/kg		0.32	05/08/14 08:26	
EPA 6010	Iron	30100 mg/kg		12.9	05/08/14 15:04	D4
EPA 6010	Lead	5400 mg/kg		3.2	05/08/14 15:04	D4
EPA 6010	Silver	6.0 mg/kg		0.32	05/08/14 08:26	
EPA 7471	Mercury	0.17 mg/kg		0.010	05/18/14 10:49	
ASTM D2974-87	Percent Moisture	20.6 %		0.10	05/08/14 08:54	
35135312039	SB-20 (0-6")					
EPA 6010	Aluminum	1520 mg/kg		5.7	04/28/14 14:11	
EPA 6010	Antimony	2.9 mg/kg		0.85	04/28/14 14:11	
EPA 6010	Arsenic	14.7 mg/kg		0.57	04/28/14 14:11	
EPA 6010	Barium	95.4 mg/kg		0.57	04/28/14 14:11	
EPA 6010	Copper	114 mg/kg		0.28	04/28/14 14:11	
EPA 6010	Iron	3910 mg/kg		2.3	04/28/14 14:11	
EPA 6010	Lead	288 mg/kg		0.57	04/28/14 14:11	
ASTM D2974-87	Percent Moisture	11.5 %		0.10	04/29/14 09:50	
35135312040	SB-20 (6"-2)					
EPA 6010	Aluminum	9200 mg/kg		5.8	04/28/14 14:15	
EPA 6010	Antimony	39.1 mg/kg		0.86	04/28/14 14:15	
EPA 6010	Arsenic	31.1 mg/kg		0.58	04/28/14 14:15	
EPA 6010	Barium	572 mg/kg		0.58	04/28/14 14:15	
EPA 6010	Cadmium	5.2 mg/kg		0.058	04/28/14 14:15	
EPA 6010	Chromium	35.1 mg/kg		0.29	04/28/14 14:15	
EPA 6010	Copper	1130 mg/kg		0.29	04/28/14 14:15	
EPA 6010	Iron	50200 mg/kg		11.5	04/29/14 04:31	D4
EPA 6010	Lead	2000 mg/kg		2.9	04/29/14 04:31	D4
EPA 6010	Selenium	1.0 mg/kg		0.86	04/28/14 14:15	
EPA 6010	Silver	5.0 mg/kg		0.29	04/28/14 14:15	
EPA 7471	Mercury	0.25 mg/kg		0.0088	05/18/14 10:56	
ASTM D2974-87	Percent Moisture	12.9 %		0.10	04/29/14 09:50	
35135312041	SB-21 (0-6")					
EPA 6010	Aluminum	2050 mg/kg		5.8	05/08/14 08:30	
EPA 6010	Antimony	2.1 mg/kg		0.87	05/08/14 08:30	
EPA 6010	Arsenic	13.4 mg/kg		0.58	05/08/14 08:30	
EPA 6010	Barium	55.6 mg/kg		0.58	05/08/14 08:30	
EPA 6010	Copper	57.1 mg/kg		0.29	05/08/14 08:30	
EPA 6010	Iron	3670 mg/kg		2.3	05/08/14 08:30	
EPA 6010	Lead	192 mg/kg		0.58	05/08/14 08:30	
ASTM D2974-87	Percent Moisture	16.1 %		0.10	05/08/14 08:55	

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SUMMARY OF DETECTION

Project: Douglas Park

Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312042	SB-21 (6"-2)					
EPA 6010	Aluminum	2720	mg/kg	5.9	05/08/14 08:34	
EPA 6010	Antimony	2.8	mg/kg	0.88	05/08/14 08:34	
EPA 6010	Arsenic	19.9	mg/kg	0.59	05/08/14 08:34	
EPA 6010	Barium	85.4	mg/kg	0.59	05/08/14 08:34	
EPA 6010	Cadmium	0.98	mg/kg	0.059	05/08/14 08:34	
EPA 6010	Chromium	28.8	mg/kg	0.29	05/08/14 08:34	
EPA 6010	Copper	85.9	mg/kg	0.29	05/08/14 08:34	
EPA 6010	Iron	7170	mg/kg	2.4	05/08/14 08:34	
EPA 6010	Lead	588	mg/kg	0.59	05/08/14 08:34	
EPA 6010	Silver	0.66	mg/kg	0.29	05/08/14 08:34	
EPA 7471	Mercury	0.14	mg/kg	0.0090	05/18/14 10:58	
ASTM D2974-87	Percent Moisture	13.3	%	0.10	05/08/14 08:55	
35135312043	SB-22 (0-6")					
EPA 6010	Aluminum	3150	mg/kg	5.3	04/28/14 14:20	
EPA 6010	Antimony	0.40	mg/kg	0.80	04/28/14 14:20	
EPA 6010	Arsenic	4.6	mg/kg	0.53	04/28/14 14:20	
EPA 6010	Barium	13.7	mg/kg	0.53	04/28/14 14:20	
EPA 6010	Copper	10.8	mg/kg	0.27	04/28/14 14:20	
EPA 6010	Iron	8880	mg/kg	2.1	04/28/14 14:20	
EPA 6010	Lead	35.6	mg/kg	0.53	04/28/14 14:20	
ASTM D2974-87	Percent Moisture	6.4	%	0.10	04/29/14 09:51	
35135312044	SB-22 (6"-2)					
EPA 6010	Aluminum	4340	mg/kg	5.7	04/28/14 14:24	
EPA 6010	Antimony	13.2	mg/kg	0.86	04/28/14 14:24	
EPA 6010	Arsenic	161	mg/kg	0.57	04/28/14 14:24	
EPA 6010	Barium	248	mg/kg	0.57	04/28/14 14:24	
EPA 6010	Cadmium	2.3	mg/kg	0.057	04/28/14 14:24	
EPA 6010	Chromium	51.2	mg/kg	0.29	04/28/14 14:24	
EPA 6010	Copper	758	mg/kg	0.29	04/28/14 14:24	
EPA 6010	Iron	17400	mg/kg	2.3	04/28/14 14:24	
EPA 6010	Lead	1020	mg/kg	0.57	04/28/14 14:24	
EPA 6010	Selenium	0.64	mg/kg	0.86	04/28/14 14:24	
EPA 6010	Silver	3.3	mg/kg	0.29	04/28/14 14:24	
EPA 7471	Mercury	0.25	mg/kg	0.0092	05/18/14 11:00	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	04/29/14 09:52	
35135312045	SB-23 (0-6")					
EPA 6010	Aluminum	544	mg/kg	5.4	05/08/14 08:38	
EPA 6010	Arsenic	3.8	mg/kg	0.54	05/08/14 08:38	
EPA 6010	Barium	9.1	mg/kg	0.54	05/08/14 08:38	
EPA 6010	Copper	6.2	mg/kg	0.27	05/08/14 08:38	
EPA 6010	Iron	1150	mg/kg	2.2	05/08/14 08:38	
EPA 6010	Lead	20.3	mg/kg	0.54	05/08/14 08:38	
ASTM D2974-87	Percent Moisture	9.9	%	0.10	05/08/14 08:56	
35135312046	SB-23 (6"-2)					
EPA 6010	Aluminum	1020	mg/kg	5.5	05/08/14 08:42	

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312046	SB-23 (6"-2)					
EPA 6010	Arsenic	1.4	mg/kg	0.55	05/08/14 08:42	
EPA 6010	Barium	13.4	mg/kg	0.55	05/08/14 08:42	
EPA 6010	Copper	15.3	mg/kg	0.27	05/08/14 08:42	
EPA 6010	Iron	1290	mg/kg	2.2	05/08/14 08:42	
EPA 6010	Lead	43.5	mg/kg	0.55	05/08/14 08:42	
ASTM D2974-87	Percent Moisture	9.4	%	0.10	05/08/14 08:56	
35135312047	SB-24 (0-6")					
EPA 6010	Aluminum	557	mg/kg	6.1	04/28/14 14:39	
EPA 6010	Arsenic	1.6	mg/kg	0.61	04/28/14 14:39	
EPA 6010	Barium	43.6	mg/kg	0.61	04/28/14 14:39	
EPA 6010	Copper	34.5	mg/kg	0.30	04/28/14 14:39	
EPA 6010	Iron	1390	mg/kg	2.4	04/28/14 14:39	
EPA 6010	Lead	32.1	mg/kg	0.61	04/28/14 14:39	
ASTM D2974-87	Percent Moisture	16.5	%	0.10	04/29/14 09:52	
35135312048	SB-24 (6"-2)					
EPA 6010	Aluminum	1140	mg/kg	5.6	04/28/14 14:43	
EPA 6010	Antimony	1.9	mg/kg	0.84	04/28/14 14:43	
EPA 6010	Arsenic	7.5	mg/kg	0.56	04/28/14 14:43	
EPA 6010	Barium	49.9	mg/kg	0.56	04/28/14 14:43	
EPA 6010	Copper	62.2	mg/kg	0.28	04/28/14 14:43	
EPA 6010	Iron	6270	mg/kg	2.2	04/28/14 14:43	
EPA 6010	Lead	197	mg/kg	0.56	04/28/14 14:43	
ASTM D2974-87	Percent Moisture	10.5	%	0.10	04/29/14 09:53	
35135312049	SB-25 (0-6")					
EPA 6010	Aluminum	906	mg/kg	5.6	05/08/14 08:46	
EPA 6010	Antimony	0.53	mg/kg	0.83	05/08/14 08:46	
EPA 6010	Arsenic	4.4	mg/kg	0.56	05/08/14 08:46	
EPA 6010	Barium	12.7	mg/kg	0.56	05/08/14 08:46	
EPA 6010	Copper	15.8	mg/kg	0.28	05/08/14 08:46	
EPA 6010	Iron	1980	mg/kg	2.2	05/08/14 08:46	
EPA 6010	Lead	112	mg/kg	0.56	05/08/14 08:46	
ASTM D2974-87	Percent Moisture	6.9	%	0.10	05/08/14 08:57	
35135312050	SB-25 (6"-2)					
EPA 6010	Aluminum	2100	mg/kg	5.6	05/08/14 08:50	
EPA 6010	Antimony	4.8	mg/kg	0.84	05/08/14 08:50	
EPA 6010	Arsenic	9.6	mg/kg	0.56	05/08/14 08:50	
EPA 6010	Barium	148	mg/kg	0.56	05/08/14 08:50	
EPA 6010	Cadmium	3.1	mg/kg	0.056	05/08/14 08:50	
EPA 6010	Chromium	37.4	mg/kg	0.28	05/08/14 08:50	
EPA 6010	Copper	224	mg/kg	0.28	05/08/14 08:50	
EPA 6010	Iron	21800	mg/kg	2.2	05/08/14 08:50	
EPA 6010	Lead	400	mg/kg	0.56	05/08/14 08:50	
EPA 6010	Silver	1.5	mg/kg	0.28	05/08/14 08:50	
EPA 7471	Mercury	0.83	mg/kg	0.045	05/18/14 12:36	D4
ASTM D2974-87	Percent Moisture	13.0	%	0.10	05/08/14 08:58	J(D6)

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312051	SB-26 (0-6")					
EPA 6010	Aluminum	208 mg/kg		5.8	05/08/14 09:05	
EPA 6010	Arsenic	6.6 mg/kg		0.58	05/08/14 09:05	
EPA 6010	Barium	11.1 mg/kg		0.58	05/08/14 09:05	
EPA 6010	Copper	3.6 mg/kg		0.29	05/08/14 09:05	
EPA 6010	Iron	608 mg/kg		2.3	05/08/14 09:05	
EPA 6010	Lead	3.9 mg/kg		0.58	05/08/14 09:05	
ASTM D2974-87	Percent Moisture	12.6 %		0.10	05/08/14 08:59	
35135312052	SB-26 (6"-2)					
EPA 6010	Aluminum	1040 mg/kg		5.3	05/08/14 09:09	
EPA 6010	Antimony	0.50 l mg/kg		0.79	05/08/14 09:09	
EPA 6010	Arsenic	3.3 mg/kg		0.53	05/08/14 09:09	
EPA 6010	Barium	22.8 mg/kg		0.53	05/08/14 09:09	
EPA 6010	Copper	8.1 mg/kg		0.26	05/08/14 09:09	
EPA 6010	Iron	1350 mg/kg		2.1	05/08/14 09:09	
EPA 6010	Lead	41.0 mg/kg		0.53	05/08/14 09:09	
ASTM D2974-87	Percent Moisture	9.0 %		0.10	05/08/14 08:59	
35135312053	SB-27 (0-6")					
EPA 6010	Aluminum	636 mg/kg		5.4	05/08/14 09:13	
EPA 6010	Antimony	0.45 l mg/kg		0.80	05/08/14 09:13	
EPA 6010	Arsenic	3.4 mg/kg		0.54	05/08/14 09:13	
EPA 6010	Barium	11.8 mg/kg		0.54	05/08/14 09:13	
EPA 6010	Copper	14.5 mg/kg		0.27	05/08/14 09:13	
EPA 6010	Iron	2860 mg/kg		2.1	05/08/14 09:13	
EPA 6010	Lead	39.3 mg/kg		0.54	05/08/14 09:13	
ASTM D2974-87	Percent Moisture	7.4 %		0.10	05/08/14 08:59	
35135312054	SB-27 (6"-2)					
EPA 6010	Aluminum	1070 mg/kg		5.4	05/08/14 09:17	
EPA 6010	Antimony	1.3 mg/kg		0.80	05/08/14 09:17	
EPA 6010	Arsenic	4.7 mg/kg		0.54	05/08/14 09:17	
EPA 6010	Barium	32.4 mg/kg		0.54	05/08/14 09:17	
EPA 6010	Copper	45.8 mg/kg		0.27	05/08/14 09:17	
EPA 6010	Iron	3460 mg/kg		2.1	05/08/14 09:17	
EPA 6010	Lead	92.1 mg/kg		0.54	05/08/14 09:17	
ASTM D2974-87	Percent Moisture	5.8 %		0.10	05/08/14 09:00	
35135312055	SB-28 (0-6")					
EPA 6010	Aluminum	2000 mg/kg		5.5	05/08/14 10:54	J(M1),J(R1)
EPA 6010	Antimony	0.50 l mg/kg		0.83	05/08/14 10:54	
EPA 6010	Arsenic	5.5 mg/kg		0.55	05/08/14 10:54	
EPA 6010	Barium	21.3 mg/kg		0.55	05/08/14 10:54	J(M1)
EPA 6010	Copper	12.9 mg/kg		0.28	05/08/14 10:54	J(M1)
EPA 6010	Iron	4960 mg/kg		2.2	05/08/14 10:54	J(M1),J(R1)
EPA 6010	Lead	38.9 mg/kg		0.55	05/08/14 10:54	J(M1)
ASTM D2974-87	Percent Moisture	8.2 %		0.10	05/08/14 09:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312056	SB-28 (6"-2)					
EPA 6010	Aluminum	1560	mg/kg	5.6	05/08/14 11:05	
EPA 6010	Antimony	0.49 l	mg/kg	0.84	05/08/14 11:05	
EPA 6010	Arsenic	4.8	mg/kg	0.56	05/08/14 11:05	
EPA 6010	Barium	35.3	mg/kg	0.56	05/08/14 11:05	
EPA 6010	Copper	10.1	mg/kg	0.28	05/08/14 11:05	
EPA 6010	Iron	2420	mg/kg	2.2	05/08/14 11:05	
EPA 6010	Lead	58.4	mg/kg	0.56	05/08/14 11:05	
ASTM D2974-87	Percent Moisture	9.7	%	0.10	05/08/14 09:01	
35135312057	SB-29 (0-6")					
EPA 6010	Aluminum	2000	mg/kg	5.3	05/08/14 13:32	
EPA 6010	Arsenic	1.7	mg/kg	0.53	05/08/14 13:32	
EPA 6010	Barium	1.9	mg/kg	0.53	05/08/14 13:32	
EPA 6010	Copper	1.1	mg/kg	0.26	05/08/14 13:32	
EPA 6010	Iron	5940	mg/kg	2.1	05/08/14 13:32	
EPA 6010	Lead	9.3	mg/kg	0.53	05/08/14 13:32	
ASTM D2974-87	Percent Moisture	5.0	%	0.10	05/08/14 09:01	
35135312058	SB-29 (6"-2)					
EPA 6010	Aluminum	1370	mg/kg	5.4	05/08/14 13:36	
EPA 6010	Arsenic	0.98	mg/kg	0.54	05/08/14 13:36	
EPA 6010	Barium	7.8	mg/kg	0.54	05/08/14 13:36	
EPA 6010	Copper	4.5	mg/kg	0.27	05/08/14 13:36	
EPA 6010	Iron	2040	mg/kg	2.2	05/08/14 13:36	
EPA 6010	Lead	25.9	mg/kg	0.54	05/08/14 13:36	
ASTM D2974-87	Percent Moisture	8.2	%	0.10	05/08/14 09:02	
35135312059	SB-30 (0-6")					
EPA 6010	Aluminum	1200	mg/kg	6.0	05/08/14 13:40	
EPA 6010	Antimony	0.53 l	mg/kg	0.90	05/08/14 13:40	
EPA 6010	Arsenic	11.1	mg/kg	0.60	05/08/14 13:40	
EPA 6010	Barium	21.8	mg/kg	0.60	05/08/14 13:40	
EPA 6010	Copper	17.1	mg/kg	0.30	05/08/14 13:40	
EPA 6010	Iron	1910	mg/kg	2.4	05/08/14 13:40	
EPA 6010	Lead	40.4	mg/kg	0.60	05/08/14 13:40	
ASTM D2974-87	Percent Moisture	14.6	%	0.10	05/08/14 09:03	
35135312060	SB-30 (6"-2)					
EPA 6010	Aluminum	1880	mg/kg	5.9	05/08/14 13:55	
EPA 6010	Antimony	0.72 l	mg/kg	0.89	05/08/14 13:55	
EPA 6010	Arsenic	25.9	mg/kg	0.59	05/08/14 13:55	
EPA 6010	Barium	53.4	mg/kg	0.59	05/08/14 13:55	
EPA 6010	Cadmium	0.37	mg/kg	0.059	05/08/14 13:55	
EPA 6010	Chromium	8.1	mg/kg	0.30	05/08/14 13:55	
EPA 6010	Copper	21.5	mg/kg	0.30	05/08/14 13:55	
EPA 6010	Iron	2270	mg/kg	2.4	05/08/14 13:55	
EPA 6010	Lead	48.4	mg/kg	0.59	05/08/14 13:55	
ASTM D2974-87	Percent Moisture	13.7	%	0.10	05/08/14 09:03	J(D6)

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312061	SB-31 (0-6")					
EPA 6010	Aluminum	1840 mg/kg		5.4	05/08/14 13:59	
EPA 6010	Antimony	4.3 mg/kg		0.81	05/08/14 13:59	
EPA 6010	Arsenic	8.7 mg/kg		0.54	05/08/14 13:59	
EPA 6010	Barium	179 mg/kg		0.54	05/08/14 13:59	
EPA 6010	Cadmium	1.7 mg/kg		0.054	05/08/14 13:59	
EPA 6010	Chromium	28.6 mg/kg		0.27	05/08/14 13:59	
EPA 6010	Copper	105 mg/kg		0.27	05/08/14 13:59	
EPA 6010	Iron	16300 mg/kg		2.2	05/08/14 13:59	
EPA 6010	Lead	437 mg/kg		0.54	05/08/14 13:59	
EPA 6010	Silver	1.3 mg/kg		0.27	05/08/14 13:59	
EPA 7471	Mercury	0.14 mg/kg		0.0086	05/18/14 11:08	
ASTM D2974-87	Percent Moisture	8.5 %		0.10	05/08/14 09:04	
35135312062	SB-31 (6"-2)					
EPA 6010	Aluminum	6580 mg/kg		5.7	05/08/14 14:03	
EPA 6010	Antimony	16.3 mg/kg		0.86	05/08/14 14:03	
EPA 6010	Arsenic	21.9 mg/kg		0.57	05/08/14 14:03	
EPA 6010	Barium	925 mg/kg		0.57	05/08/14 14:03	
EPA 6010	Cadmium	6.4 mg/kg		0.057	05/08/14 14:03	
EPA 6010	Chromium	31.9 mg/kg		0.29	05/08/14 14:03	
EPA 6010	Copper	623 mg/kg		0.29	05/08/14 14:03	
EPA 6010	Iron	78200 mg/kg		45.7	05/08/14 14:57	D4
EPA 6010	Lead	2720 mg/kg		11.4	05/08/14 14:57	D4
EPA 6010	Silver	3.5 mg/kg		0.29	05/08/14 14:03	
EPA 7471	Mercury	0.20 mg/kg		0.0087	05/18/14 11:12	
ASTM D2974-87	Percent Moisture	12.0 %		0.10	05/08/14 09:04	
35135312063	SB-32 (0-6")					
EPA 6010	Aluminum	542 mg/kg		5.8	05/08/14 14:07	
EPA 6010	Antimony	0.47 l mg/kg		0.87	05/08/14 14:07	
EPA 6010	Arsenic	4.1 mg/kg		0.58	05/08/14 14:07	
EPA 6010	Barium	21.1 mg/kg		0.58	05/08/14 14:07	
EPA 6010	Copper	30.2 mg/kg		0.29	05/08/14 14:07	
EPA 6010	Iron	1910 mg/kg		2.3	05/08/14 14:07	
EPA 6010	Lead	171 mg/kg		0.58	05/08/14 14:07	
ASTM D2974-87	Percent Moisture	10.9 %		0.10	05/08/14 09:05	
35135312064	SB-32 (6"-2)					
EPA 6010	Aluminum	1170 mg/kg		5.4	05/08/14 14:11	
EPA 6010	Antimony	0.79 l mg/kg		0.81	05/08/14 14:11	
EPA 6010	Arsenic	3.4 mg/kg		0.54	05/08/14 14:11	
EPA 6010	Barium	28.7 mg/kg		0.54	05/08/14 14:11	
EPA 6010	Copper	24.6 mg/kg		0.27	05/08/14 14:11	
EPA 6010	Iron	2060 mg/kg		2.2	05/08/14 14:11	
EPA 6010	Lead	44.0 mg/kg		0.54	05/08/14 14:11	
ASTM D2974-87	Percent Moisture	8.7 %		0.10	05/08/14 09:06	
35135312065	SB-33 (0-6")					
EPA 6010	Aluminum	1210 mg/kg		5.8	04/28/14 14:47	

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SUMMARY OF DETECTION

Project: Douglas Park

Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312065	SB-33 (0-6")					
EPA 6010	Antimony	1.3 mg/kg		0.87	04/28/14 14:47	
EPA 6010	Arsenic	4.5 mg/kg		0.58	04/28/14 14:47	
EPA 6010	Barium	48.8 mg/kg		0.58	04/28/14 14:47	
EPA 6010	Copper	66.0 mg/kg		0.29	04/28/14 14:47	
EPA 6010	Iron	5590 mg/kg		2.3	04/28/14 14:47	
EPA 6010	Lead	248 mg/kg		0.58	04/28/14 14:47	
ASTM D2974-87	Percent Moisture	13.0 %		0.10	04/29/14 09:54	
35135312066	SB-33 (6"-2)					
EPA 6010	Aluminum	1240 mg/kg		6.1	04/30/14 06:32	J(M1)
EPA 6010	Antimony	1.2 mg/kg		0.91	04/30/14 06:32	
EPA 6010	Arsenic	4.0 mg/kg		0.61	04/30/14 06:32	
EPA 6010	Barium	44.9 mg/kg		0.61	04/30/14 06:32	J(M1),J(R1)
EPA 6010	Copper	59.7 mg/kg		0.30	04/30/14 06:32	J(M1)
EPA 6010	Iron	3940 mg/kg		2.4	04/30/14 06:32	J(M1),J(R1)
EPA 6010	Lead	246 mg/kg		0.61	04/30/14 06:32	J(M1)
ASTM D2974-87	Percent Moisture	18.0 %		0.10	04/29/14 09:55	
35135312067	SB-34 (0-6")					
EPA 6010	Aluminum	1930 mg/kg		5.5	05/08/14 14:15	
EPA 6010	Antimony	0.52 mg/kg		0.82	05/08/14 14:15	
EPA 6010	Arsenic	10.4 mg/kg		0.55	05/08/14 14:15	
EPA 6010	Barium	28.0 mg/kg		0.55	05/08/14 14:15	
EPA 6010	Copper	14.5 mg/kg		0.27	05/08/14 14:15	
EPA 6010	Iron	4830 mg/kg		2.2	05/08/14 14:15	
EPA 6010	Lead	44.7 mg/kg		0.55	05/08/14 14:15	
ASTM D2974-87	Percent Moisture	8.8 %		0.10	05/08/14 09:16	
35135312068	SB-34 (6"-2)					
EPA 6010	Aluminum	1060 mg/kg		5.3	05/08/14 14:26	
EPA 6010	Arsenic	3.9 mg/kg		0.53	05/08/14 14:26	
EPA 6010	Barium	14.3 mg/kg		0.53	05/08/14 14:26	
EPA 6010	Copper	10.2 mg/kg		0.27	05/08/14 14:26	
EPA 6010	Iron	1740 mg/kg		2.1	05/08/14 14:26	
EPA 6010	Lead	23.8 mg/kg		0.53	05/08/14 14:26	
ASTM D2974-87	Percent Moisture	6.0 %		0.10	05/08/14 09:18	
35135312069	SB-35 (0-6")					
EPA 6010	Aluminum	1040 mg/kg		5.1	04/30/14 06:43	
EPA 6010	Arsenic	4.8 mg/kg		0.51	04/30/14 06:43	
EPA 6010	Barium	12.0 mg/kg		0.51	04/30/14 06:43	
EPA 6010	Copper	12.0 mg/kg		0.26	04/30/14 06:43	
EPA 6010	Iron	2750 mg/kg		2.0	04/30/14 06:43	
EPA 6010	Lead	29.7 mg/kg		0.51	04/30/14 06:43	
ASTM D2974-87	Percent Moisture	4.7 %		0.10	04/29/14 09:56	
35135312070	SB-35 (6"-2)					
EPA 6010	Aluminum	2910 mg/kg		6.0	04/30/14 07:10	
EPA 6010	Antimony	10.9 mg/kg		0.90	04/30/14 07:10	

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135312

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
35135312070	SB-35 (6"-2)					
EPA 6010	Arsenic	8.1	mg/kg	0.60	04/30/14 07:10	
EPA 6010	Barium	128	mg/kg	0.60	04/30/14 07:10	
EPA 6010	Cadmium	1.0	mg/kg	0.060	04/30/14 07:10	
EPA 6010	Chromium	13.5	mg/kg	0.30	04/30/14 07:10	
EPA 6010	Copper	119	mg/kg	0.30	04/30/14 07:10	
EPA 6010	Iron	5000	mg/kg	2.4	04/30/14 07:10	
EPA 6010	Lead	1020	mg/kg	0.60	04/30/14 07:10	
EPA 6010	Selenium	0.75	l mg/kg	0.90	04/30/14 07:10	
EPA 6010	Silver	1.3	mg/kg	0.30	04/30/14 07:10	
EPA 7471	Mercury	0.22	mg/kg	0.0096	05/18/14 11:14	
ASTM D2974-87	Percent Moisture	15.9	%	0.10	04/29/14 09:56	
35135312071	SB-36 (0-6")					
EPA 6010	Aluminum	984	mg/kg	5.5	05/08/14 14:30	
EPA 6010	Antimony	0.95	mg/kg	0.82	05/08/14 14:30	
EPA 6010	Arsenic	3.7	mg/kg	0.55	05/08/14 14:30	
EPA 6010	Barium	35.9	mg/kg	0.55	05/08/14 14:30	
EPA 6010	Copper	27.6	mg/kg	0.27	05/08/14 14:30	
EPA 6010	Iron	3260	mg/kg	2.2	05/08/14 14:30	
EPA 6010	Lead	107	mg/kg	0.55	05/08/14 14:30	
ASTM D2974-87	Percent Moisture	8.1	%	0.10	05/08/14 09:19	
35135312072	SB-36 (6"-2)					
EPA 6010	Aluminum	1170	mg/kg	5.6	05/08/14 14:45	
EPA 6010	Antimony	0.61	l mg/kg	0.84	05/08/14 14:45	
EPA 6010	Arsenic	1.2	mg/kg	0.56	05/08/14 14:45	
EPA 6010	Barium	144	mg/kg	0.56	05/08/14 14:45	
EPA 6010	Copper	12.6	mg/kg	0.28	05/08/14 14:45	
EPA 6010	Iron	8240	mg/kg	2.2	05/08/14 14:45	
EPA 6010	Lead	408	mg/kg	0.56	05/08/14 14:45	
ASTM D2974-87	Percent Moisture	10.1	%	0.10	05/08/14 09:19	

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-1 (0-6") **Lab ID: 35135312001** Collected: 04/23/14 10:42 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	838	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 09:28	7429-90-5	J(M1)
Antimony	0.43U	mg/kg	0.87	0.43	1	05/07/14 13:53	05/08/14 09:28	7440-36-0	
Arsenic	0.88	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:28	7440-38-2	
Barium	13.8	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:28	7440-39-3	
Copper	9.8	mg/kg	0.29	0.14	1	05/07/14 13:53	05/08/14 09:28	7440-50-8	
Iron	1140	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 09:28	7439-89-6	J(M1)
Lead	33.0	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:28	7439-92-1	J(M1)
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.5	%	0.10	0.10	1		05/07/14 09:14		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-1 (6"-2) **Lab ID: 35135312002** Collected: 04/23/14 10:50 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	868	mg/kg	5.3	2.7	1	05/07/14 13:53	05/08/14 09:40	7429-90-5	
Antimony	0.40U	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 09:40	7440-36-0	
Arsenic	0.38 I	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 09:40	7440-38-2	
Barium	9.0	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 09:40	7440-39-3	
Copper	4.0	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 09:40	7440-50-8	
Iron	661	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 09:40	7439-89-6	
Lead	12.0	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 09:40	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.1	%	0.10	0.10	1		05/07/14 09:15		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: **SB-2 (0-6")** Lab ID: **35135312003** Collected: 04/23/14 10:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2180	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 11:59	7429-90-5	
Antimony	3.9	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 11:59	7440-36-0	
Arsenic	8.4	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 11:59	7440-38-2	
Barium	96.7	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 11:59	7440-39-3	
Cadmium	1.1	mg/kg	0.058	0.029	1	05/07/14 13:53	05/08/14 11:59	7440-43-9	
Chromium	21.0	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 11:59	7440-47-3	
Copper	128	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 11:59	7440-50-8	
Iron	14800	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 11:59	7439-89-6	
Lead	228	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 11:59	7439-92-1	
Selenium	0.44U	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 11:59	7782-49-2	
Silver	0.65	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 11:59	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.30	mg/kg	0.0088	0.0044	1	05/16/14 09:00	05/16/14 13:43	7439-97-6	J(M1)
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.1	%	0.10	0.10	1		05/07/14 09:16		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-2 (6"-2) **Lab ID: 35135312004** Collected: 04/23/14 11:00 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1350	mg/kg	5.5	2.7	1	05/07/14 13:53	05/08/14 12:14	7429-90-5	
Antimony	2.2	mg/kg	0.82	0.41	1	05/07/14 13:53	05/08/14 12:14	7440-36-0	
Arsenic	0.91	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 12:14	7440-38-2	
Barium	20.4	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 12:14	7440-39-3	
Copper	132	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 12:14	7440-50-8	
Iron	1270	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:14	7439-89-6	
Lead	79.8	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 12:14	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.7	%	0.10	0.10	1		05/07/14 09:16		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-3 (0-6") **Lab ID: 35135312005** Collected: 04/23/14 11:12 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1360	mg/kg	5.9	3.0	1	05/07/14 13:53	05/08/14 12:18	7429-90-5	
Antimony	0.64	mg/kg	0.89	0.44	1	05/07/14 13:53	05/08/14 12:18	7440-36-0	
Arsenic	2.1	mg/kg	0.59	0.30	1	05/07/14 13:53	05/08/14 12:18	7440-38-2	
Barium	22.9	mg/kg	0.59	0.30	1	05/07/14 13:53	05/08/14 12:18	7440-39-3	
Copper	67.5	mg/kg	0.30	0.15	1	05/07/14 13:53	05/08/14 12:18	7440-50-8	
Iron	9480	mg/kg	2.4	1.2	1	05/07/14 13:53	05/08/14 12:18	7439-89-6	
Lead	40.0	mg/kg	0.59	0.30	1	05/07/14 13:53	05/08/14 12:18	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.5	%	0.10	0.10	1		05/07/14 09:17		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-3 (6"-2) **Lab ID: 35135312006** Collected: 04/23/14 11:19 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1320	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 12:22	7429-90-5	
Antimony	0.41U	mg/kg	0.81	0.41	1	05/07/14 13:53	05/08/14 12:22	7440-36-0	
Arsenic	1.5	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:22	7440-38-2	
Barium	16.9	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:22	7440-39-3	
Copper	58.4	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 12:22	7440-50-8	
Iron	1900	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:22	7439-89-6	
Lead	31.2	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:22	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.4	%	0.10	0.10	1		05/07/14 09:17		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-4 (0-6") **Lab ID: 35135312007** Collected: 04/23/14 11:20 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1060	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 12:26	7429-90-5	
Antimony	0.71	mg/kg	0.81	0.41	1	05/07/14 13:53	05/08/14 12:26	7440-36-0	
Arsenic	2.5	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:26	7440-38-2	
Barium	22.0	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:26	7440-39-3	
Copper	26.4	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 12:26	7440-50-8	
Iron	1680	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:26	7439-89-6	
Lead	139	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 12:26	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.2	%	0.10	0.10	1		05/07/14 09:17		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-4 (6"-2) **Lab ID: 35135312008** Collected: 04/23/14 11:28 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	275	mg/kg	5.5	2.7	1	05/07/14 13:53	05/08/14 12:30	7429-90-5	
Antimony	0.41U	mg/kg	0.82	0.41	1	05/07/14 13:53	05/08/14 12:30	7440-36-0	J(IS)
Arsenic	1.4U	mg/kg	2.7	1.4	5	05/07/14 13:53	05/08/14 15:53	7440-38-2	D3
Barium	11.5	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 12:30	7440-39-3	
Copper	235	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 12:30	7440-50-8	
Iron	365	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:30	7439-89-6	
Lead	21.6	mg/kg	2.7	1.4	5	05/07/14 13:53	05/08/14 15:53	7439-92-1	D3
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.0	%	0.10	0.10	1		05/07/14 09:18		

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ANALYTICAL RESULTS

Project: Douglas Park
 Pace Project No.: 35135312

Sample: SB-5 (0-6") Lab ID: 35135312009 Collected: 04/23/14 11:37 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1760	mg/kg	5.8	2.9	1	04/28/14 03:47	04/28/14 11:54	7429-90-5	J(M1)
Antimony	1.8	mg/kg	0.87	0.44	1	04/28/14 03:47	04/28/14 11:54	7440-36-0	J(R1)
Arsenic	4.3	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 11:54	7440-38-2	
Barium	68.5	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 11:54	7440-39-3	
Copper	75.8	mg/kg	0.29	0.15	1	04/28/14 03:47	04/28/14 11:54	7440-50-8	J(M1), J(R1)
Iron	4570	mg/kg	2.3	1.2	1	04/28/14 03:47	04/28/14 11:54	7439-89-6	J(M1)
Lead	215	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 11:54	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.2	%	0.10	0.10	1		04/29/14 09:46		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-5 (6"-2) **Lab ID: 35135312010** Collected: 04/23/14 11:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	4910	mg/kg	5.7	2.9	1	04/28/14 03:47	04/28/14 13:32	7429-90-5	
Antimony	32.7	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 13:32	7440-36-0	
Arsenic	25.6	mg/kg	0.57	0.29	1	04/28/14 03:47	04/28/14 13:32	7440-38-2	
Barium	829	mg/kg	0.57	0.29	1	04/28/14 03:47	04/28/14 13:32	7440-39-3	
Cadmium	3.8	mg/kg	0.057	0.029	1	04/28/14 03:47	04/28/14 13:32	7440-43-9	
Chromium	34.6	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 13:32	7440-47-3	
Copper	1020	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 13:32	7440-50-8	
Iron	52300	mg/kg	11.5	5.7	5	04/28/14 03:47	04/29/14 04:13	7439-89-6	D4
Lead	3000	mg/kg	2.9	1.4	5	04/28/14 03:47	04/29/14 04:13	7439-92-1	D4
Selenium	0.43U	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 13:32	7782-49-2	
Silver	4.2	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 13:32	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.23	mg/kg	0.0098	0.0049	1	05/16/14 09:00	05/16/14 13:49	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.4	%	0.10	0.10	1		04/29/14 09:47		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-6 (0-6") **Lab ID: 35135312011** Collected: 04/23/14 11:51 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	864	mg/kg	5.3	2.7	1	05/07/14 13:53	05/08/14 12:33	7429-90-5	
Antimony	0.64	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 12:33	7440-36-0	
Arsenic	5.9	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 12:33	7440-38-2	
Barium	16.3	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 12:33	7440-39-3	
Copper	19.8	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 12:33	7440-50-8	
Iron	1790	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 12:33	7439-89-6	
Lead	89.8	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 12:33	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.4	%	0.10	0.10	1		05/07/14 09:19		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-6 (6"-2) **Lab ID: 35135312012** Collected: 04/23/14 11:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.012U	mg/kg	0.019	0.012	1	05/05/14 20:00	05/06/14 03:19	12674-11-2	
PCB-1221 (Aroclor 1221)	0.0092U	mg/kg	0.019	0.0092	1	05/05/14 20:00	05/06/14 03:19	11104-28-2	
PCB-1232 (Aroclor 1232)	0.0096U	mg/kg	0.019	0.0096	1	05/05/14 20:00	05/06/14 03:19	11141-16-5	
PCB-1242 (Aroclor 1242)	0.0032U	mg/kg	0.019	0.0032	1	05/05/14 20:00	05/06/14 03:19	53469-21-9	
PCB-1248 (Aroclor 1248)	0.012U	mg/kg	0.019	0.012	1	05/05/14 20:00	05/06/14 03:19	12672-29-6	
PCB-1254 (Aroclor 1254)	0.0078U	mg/kg	0.019	0.0078	1	05/05/14 20:00	05/06/14 03:19	11097-69-1	
PCB-1260 (Aroclor 1260)	0.012U	mg/kg	0.019	0.012	1	05/05/14 20:00	05/06/14 03:19	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	27 %		19.6-135		1	05/05/14 20:00	05/06/14 03:19	877-09-8	
Decachlorobiphenyl (S)	40 %		24.5-162		1	05/05/14 20:00	05/06/14 03:19	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	3870	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 12:37	7429-90-5	
Antimony	13.7	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 12:37	7440-36-0	
Arsenic	11.9	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:37	7440-38-2	
Barium	338	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:37	7440-39-3	
Cadmium	2.8	mg/kg	0.058	0.029	1	05/07/14 13:53	05/08/14 12:37	7440-43-9	
Chromium	29.5	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 12:37	7440-47-3	
Copper	288	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 12:37	7440-50-8	
Iron	41000	mg/kg	46.5	23.2	20	05/07/14 13:53	05/08/14 15:08	7439-89-6	D4
Lead	643	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:37	7439-92-1	
Selenium	0.44U	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 12:37	7782-49-2	
Silver	3.0	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 12:37	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.18	mg/kg	0.0090	0.0045	1	05/16/14 09:00	05/16/14 14:39	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.6	%	0.10	0.10	1		05/07/14 09:19		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-7 (0-6") **Lab ID: 35135312013** Collected: 04/23/14 12:05 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	928	mg/kg	5.4	2.7	1	04/28/14 03:47	04/28/14 13:47	7429-90-5	
Antimony	1.0	mg/kg	0.82	0.41	1	04/28/14 03:47	04/28/14 13:47	7440-36-0	
Arsenic	4.8	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 13:47	7440-38-2	
Barium	38.8	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 13:47	7440-39-3	
Copper	60.8	mg/kg	0.27	0.14	1	04/28/14 03:47	04/28/14 13:47	7440-50-8	
Iron	3640	mg/kg	2.2	1.1	1	04/28/14 03:47	04/28/14 13:47	7439-89-6	
Lead	79.5	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 13:47	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.3	%	0.10	0.10	1		04/29/14 09:47		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-7 (6"-2) **Lab ID: 35135312014** Collected: 04/23/14 12:12 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.076U	mg/kg	0.12	0.076	1	05/05/14 20:00	05/06/14 07:10	12674-11-2	
PCB-1221 (Aroclor 1221)	0.059U	mg/kg	0.12	0.059	1	05/05/14 20:00	05/06/14 07:10	11104-28-2	
PCB-1232 (Aroclor 1232)	0.062U	mg/kg	0.12	0.062	1	05/05/14 20:00	05/06/14 07:10	11141-16-5	
PCB-1242 (Aroclor 1242)	0.021U	mg/kg	0.12	0.021	1	05/05/14 20:00	05/06/14 07:10	53469-21-9	
PCB-1248 (Aroclor 1248)	0.079U	mg/kg	0.12	0.079	1	05/05/14 20:00	05/06/14 07:10	12672-29-6	
PCB-1254 (Aroclor 1254)	0.050U	mg/kg	0.12	0.050	1	05/05/14 20:00	05/06/14 07:10	11097-69-1	
PCB-1260 (Aroclor 1260)	0.076U	mg/kg	0.12	0.076	1	05/05/14 20:00	05/06/14 07:10	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	98 %		19.6-135		1	05/05/14 20:00	05/06/14 07:10	877-09-8	
Decachlorobiphenyl (S)	96 %		24.5-162		1	05/05/14 20:00	05/06/14 07:10	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	12100	mg/kg	6.2	3.1	1	04/28/14 03:47	04/28/14 13:51	7429-90-5	
Antimony	112	mg/kg	0.93	0.47	1	04/28/14 03:47	04/28/14 13:51	7440-36-0	
Arsenic	23.2	mg/kg	0.62	0.31	1	04/28/14 03:47	04/28/14 13:51	7440-38-2	
Barium	1020	mg/kg	0.62	0.31	1	04/28/14 03:47	04/28/14 13:51	7440-39-3	
Cadmium	1800	mg/kg	0.062	0.031	1	04/28/14 03:47	04/28/14 13:51	7440-43-9	
Chromium	50.4	mg/kg	0.31	0.16	1	04/28/14 03:47	04/28/14 13:51	7440-47-3	
Copper	1060	mg/kg	0.31	0.16	1	04/28/14 03:47	04/28/14 13:51	7440-50-8	
Iron	37200	mg/kg	12.5	6.2	5	04/28/14 03:47	04/29/14 04:17	7439-89-6	D4
Lead	4360	mg/kg	3.1	1.6	5	04/28/14 03:47	04/29/14 04:17	7439-92-1	D4
Selenium	0.90 I	mg/kg	0.93	0.47	1	04/28/14 03:47	04/28/14 13:51	7782-49-2	
Silver	6.2	mg/kg	0.31	0.16	1	04/28/14 03:47	04/28/14 13:51	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.30	mg/kg	0.0099	0.0049	1	05/16/14 09:00	05/16/14 14:42	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.5	%	0.10	0.10	1		04/29/14 09:47		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-8 (0-6") **Lab ID: 35135312015** Collected: 04/23/14 12:17 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1810	mg/kg	5.5	2.8	1	05/07/14 13:53	05/08/14 12:42	7429-90-5	
Antimony	0.44	mg/kg	0.83	0.42	1	05/07/14 13:53	05/08/14 12:42	7440-36-0	
Arsenic	11.5	mg/kg	0.55	0.28	1	05/07/14 13:53	05/08/14 12:42	7440-38-2	
Barium	18.2	mg/kg	0.55	0.28	1	05/07/14 13:53	05/08/14 12:42	7440-39-3	
Copper	10	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 12:42	7440-50-8	
Iron	7240	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:42	7439-89-6	
Lead	29.9	mg/kg	0.55	0.28	1	05/07/14 13:53	05/08/14 12:42	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.5	%	0.10	0.10	1		05/07/14 09:20		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-8 (6"-2) **Lab ID: 35135312016** Collected: 04/23/14 12:25 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1230	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 12:46	7429-90-5	
Antimony	1.9	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 12:46	7440-36-0	
Arsenic	4.3	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:46	7440-38-2	
Barium	71.3	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:46	7440-39-3	
Copper	82.6	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 12:46	7440-50-8	
Iron	4700	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 12:46	7439-89-6	
Lead	206	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 12:46	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.2	%	0.10	0.10	1		05/07/14 09:21		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-9 (0-6") **Lab ID: 35135312017** Collected: 04/23/14 13:30 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	876	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 12:49	7429-90-5	
Antimony	0.95	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 12:49	7440-36-0	
Arsenic	5.0	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 12:49	7440-38-2	
Barium	61.2	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 12:49	7440-39-3	
Copper	45.8	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 12:49	7440-50-8	
Iron	2750	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 12:49	7439-89-6	
Lead	184	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 12:49	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.0	%	0.10	0.10	1		05/07/14 09:21		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-9 (6"-2) **Lab ID: 35135312018** Collected: 04/23/14 13:35 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	7590	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 13:04	7429-90-5	
Antimony	28.8	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 13:04	7440-36-0	
Arsenic	29.7	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 13:04	7440-38-2	
Barium	578	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 13:04	7440-39-3	
Cadmium	4.7	mg/kg	0.058	0.029	1	05/07/14 13:53	05/08/14 13:04	7440-43-9	
Chromium	37.6	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 13:04	7440-47-3	
Copper	1500	mg/kg	5.8	2.9	20	05/07/14 13:53	05/08/14 15:11	7440-50-8	D4
Iron	39400	mg/kg	46.7	23.3	20	05/07/14 13:53	05/08/14 15:11	7439-89-6	D4
Lead	1890	mg/kg	11.7	5.8	20	05/07/14 13:53	05/08/14 15:11	7439-92-1	D4
Selenium	0.44U	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 13:04	7782-49-2	
Silver	4.1	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 13:04	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.46	mg/kg	0.0093	0.0046	1	05/16/14 14:58	05/18/14 10:36	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.8	%	0.10	0.10	1		05/07/14 09:21		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: **SB-10 (0-6")** Lab ID: **35135312019** Collected: 04/23/14 13:18 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	5940	mg/kg	5.7	2.9	1	05/07/14 13:53	05/08/14 13:09	7429-90-5	
Antimony	17.0	mg/kg	0.86	0.43	1	05/07/14 13:53	05/08/14 13:09	7440-36-0	
Arsenic	16.7	mg/kg	0.57	0.29	1	05/07/14 13:53	05/08/14 13:09	7440-38-2	
Barium	409	mg/kg	0.57	0.29	1	05/07/14 13:53	05/08/14 13:09	7440-39-3	
Cadmium	3.1	mg/kg	0.057	0.029	1	05/07/14 13:53	05/08/14 13:09	7440-43-9	
Chromium	31.8	mg/kg	0.29	0.14	1	05/07/14 13:53	05/08/14 13:09	7440-47-3	
Copper	515	mg/kg	0.29	0.14	1	05/07/14 13:53	05/08/14 13:09	7440-50-8	
Iron	21100	mg/kg	2.3	1.1	1	05/07/14 13:53	05/08/14 13:09	7439-89-6	
Lead	958	mg/kg	0.57	0.29	1	05/07/14 13:53	05/08/14 13:09	7439-92-1	
Selenium	0.43U	mg/kg	0.86	0.43	1	05/07/14 13:53	05/08/14 13:09	7782-49-2	
Silver	3.5	mg/kg	0.29	0.14	1	05/07/14 13:53	05/08/14 13:09	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.11	mg/kg	0.0090	0.0045	1	05/16/14 14:58	05/18/14 10:39	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.7	%	0.10	0.10	1		05/07/14 09:22		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-10 (6"-2) **Lab ID: 35135312020** Collected: 04/23/14 13:25 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.035U	mg/kg	0.058	0.035	1	05/05/14 20:00	05/06/14 06:54	12674-11-2	
PCB-1221 (Aroclor 1221)	0.027U	mg/kg	0.058	0.027	1	05/05/14 20:00	05/06/14 06:54	11104-28-2	
PCB-1232 (Aroclor 1232)	0.029U	mg/kg	0.058	0.029	1	05/05/14 20:00	05/06/14 06:54	11141-16-5	
PCB-1242 (Aroclor 1242)	0.0095U	mg/kg	0.058	0.0095	1	05/05/14 20:00	05/06/14 06:54	53469-21-9	
PCB-1248 (Aroclor 1248)	0.037U	mg/kg	0.058	0.037	1	05/05/14 20:00	05/06/14 06:54	12672-29-6	
PCB-1254 (Aroclor 1254)	0.023U	mg/kg	0.058	0.023	1	05/05/14 20:00	05/06/14 06:54	11097-69-1	
PCB-1260 (Aroclor 1260)	0.035U	mg/kg	0.058	0.035	1	05/05/14 20:00	05/06/14 06:54	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	85 %		19.6-135		1	05/05/14 20:00	05/06/14 06:54	877-09-8	
Decachlorobiphenyl (S)	83 %		24.5-162		1	05/05/14 20:00	05/06/14 06:54	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	5080	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 13:13	7429-90-5	
Antimony	18.3	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 13:13	7440-36-0	
Arsenic	15.7	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 13:13	7440-38-2	
Barium	285	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 13:13	7440-39-3	
Cadmium	2.4	mg/kg	0.058	0.029	1	05/07/14 13:53	05/08/14 13:13	7440-43-9	
Chromium	26.3	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 13:13	7440-47-3	
Copper	454	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 13:13	7440-50-8	
Iron	17400	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 13:13	7439-89-6	
Lead	1860	mg/kg	11.7	5.8	20	05/07/14 13:53	05/08/14 16:11	7439-92-1	D4
Selenium	0.44U	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 13:13	7782-49-2	
Silver	3.0	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 13:13	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.19	mg/kg	0.0092	0.0046	1	05/16/14 14:58	05/18/14 10:41	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.5	%	0.10	0.10	1		05/07/14 09:22		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-11 (0-6") **Lab ID: 35135312021** Collected: 04/23/14 14:10 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	587	mg/kg	5.1	2.6	1	04/28/14 03:47	04/28/14 13:56	7429-90-5	
Antimony	0.64	mg/kg	0.77	0.39	1	04/28/14 03:47	04/28/14 13:56	7440-36-0	
Arsenic	8.1	mg/kg	0.51	0.26	1	04/28/14 03:47	04/28/14 13:56	7440-38-2	
Barium	11.5	mg/kg	0.51	0.26	1	04/28/14 03:47	04/28/14 13:56	7440-39-3	
Copper	14.4	mg/kg	0.26	0.13	1	04/28/14 03:47	04/28/14 13:56	7440-50-8	
Iron	2010	mg/kg	2.1	1.0	1	04/28/14 03:47	04/28/14 13:56	7439-89-6	
Lead	37.2	mg/kg	0.51	0.26	1	04/28/14 03:47	04/28/14 13:56	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	7.2	%	0.10	0.10	1		04/29/14 09:48		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-11 (6"-2) **Lab ID: 35135312022** Collected: 04/23/14 14:10 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1070	mg/kg	5.4	2.7	1	04/28/14 03:47	04/28/14 14:00	7429-90-5	
Antimony	3.7	mg/kg	0.80	0.40	1	04/28/14 03:47	04/28/14 14:00	7440-36-0	
Arsenic	57.4	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:00	7440-38-2	
Barium	53.1	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:00	7440-39-3	
Copper	85.3	mg/kg	0.27	0.13	1	04/28/14 03:47	04/28/14 14:00	7440-50-8	
Iron	5820	mg/kg	2.1	1.1	1	04/28/14 03:47	04/28/14 14:00	7439-89-6	
Lead	234	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:00	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.9	%	0.10	0.10	1		04/29/14 09:48		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-12 (0-6") **Lab ID: 35135312023** Collected: 04/23/14 10:50 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1200	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 13:17	7429-90-5	
Antimony	3.0	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 13:17	7440-36-0	
Arsenic	5.4	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 13:17	7440-38-2	
Barium	70.6	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 13:17	7440-39-3	
Copper	96.7	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 13:17	7440-50-8	
Iron	7330	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 13:17	7439-89-6	
Lead	345	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 13:17	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.6	%	0.10	0.10	1		05/07/14 09:23		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: **SB-12 (6"-2)** Lab ID: **35135312024** Collected: 04/23/14 11:02 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.035U	mg/kg	0.057	0.035	1	05/05/14 20:00	05/06/14 06:39	12674-11-2	
PCB-1221 (Aroclor 1221)	0.027U	mg/kg	0.057	0.027	1	05/05/14 20:00	05/06/14 06:39	11104-28-2	
PCB-1232 (Aroclor 1232)	0.028U	mg/kg	0.057	0.028	1	05/05/14 20:00	05/06/14 06:39	11141-16-5	
PCB-1242 (Aroclor 1242)	0.0094U	mg/kg	0.057	0.0094	1	05/05/14 20:00	05/06/14 06:39	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036U	mg/kg	0.057	0.036	1	05/05/14 20:00	05/06/14 06:39	12672-29-6	
PCB-1254 (Aroclor 1254)	0.023U	mg/kg	0.057	0.023	1	05/05/14 20:00	05/06/14 06:39	11097-69-1	
PCB-1260 (Aroclor 1260)	0.035U	mg/kg	0.057	0.035	1	05/05/14 20:00	05/06/14 06:39	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	51 %		19.6-135		1	05/05/14 20:00	05/06/14 06:39	877-09-8	
Decachlorobiphenyl (S)	51 %		24.5-162		1	05/05/14 20:00	05/06/14 06:39	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4270	mg/kg	5.5	2.8	1	05/07/14 13:53	05/08/14 13:21	7429-90-5	
Antimony	18.1	mg/kg	0.83	0.42	1	05/07/14 13:53	05/08/14 13:21	7440-36-0	
Arsenic	21.1	mg/kg	0.55	0.28	1	05/07/14 13:53	05/08/14 13:21	7440-38-2	
Barium	755	mg/kg	0.55	0.28	1	05/07/14 13:53	05/08/14 13:21	7440-39-3	
Cadmium	5.7	mg/kg	0.055	0.028	1	05/07/14 13:53	05/08/14 13:21	7440-43-9	
Chromium	30.2	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 13:21	7440-47-3	
Copper	647	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 13:21	7440-50-8	
Iron	61400	mg/kg	44.3	22.2	20	05/07/14 13:53	05/08/14 15:15	7439-89-6	D4
Lead	2840	mg/kg	11.1	5.5	20	05/07/14 13:53	05/08/14 15:15	7439-92-1	D4
Selenium	8.3U	mg/kg	16.6	8.3	20	05/07/14 13:53	05/08/14 15:15	7782-49-2	D3
Silver	3.7	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 13:21	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.091	mg/kg	0.0093	0.0047	1	05/16/14 14:58	05/18/14 10:43	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.9	%	0.10	0.10	1		05/07/14 09:23		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-13 (0-6") **Lab ID: 35135312025** Collected: 04/23/14 11:15 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	606	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 13:25	7429-90-5	
Antimony	0.42U	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 13:25	7440-36-0	
Arsenic	0.88	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 13:25	7440-38-2	
Barium	11.8	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 13:25	7440-39-3	
Copper	11.0	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 13:25	7440-50-8	
Iron	1080	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 13:25	7439-89-6	
Lead	13.8	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 13:25	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.0	%	0.10	0.10	1		05/07/14 09:24		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-13 (6"-2) **Lab ID: 35135312026** Collected: 04/23/14 11:15 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	514	mg/kg	5.3	2.7	1	05/07/14 13:53	05/08/14 13:28	7429-90-5	
Antimony	1.5	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 13:28	7440-36-0	
Arsenic	3.7	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 13:28	7440-38-2	
Barium	20.9	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 13:28	7440-39-3	
Copper	22.6	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 13:28	7440-50-8	
Iron	3480	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 13:28	7439-89-6	
Lead	95.4	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 13:28	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	7.8	%	0.10	0.10	1		05/07/14 09:24		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-14 (0-6") **Lab ID: 35135312027** Collected: 04/23/14 11:40 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	117	mg/kg	4.9	2.5	1	05/07/14 13:53	05/08/14 07:10	7429-90-5	J(M1)
Antimony	0.37U	mg/kg	0.74	0.37	1	05/07/14 13:53	05/08/14 07:10	7440-36-0	
Arsenic	0.36 I	mg/kg	0.49	0.25	1	05/07/14 13:53	05/08/14 07:10	7440-38-2	
Barium	11.6	mg/kg	0.49	0.25	1	05/07/14 13:53	05/08/14 07:10	7440-39-3	J(M1), J(R1)
Copper	9.4	mg/kg	0.25	0.12	1	05/07/14 13:53	05/08/14 07:10	7440-50-8	J(M1)
Iron	1510	mg/kg	2.0	0.98	1	05/07/14 13:53	05/08/14 07:10	7439-89-6	J(M1), J(R1)
Lead	17.5	mg/kg	0.49	0.25	1	05/07/14 13:53	05/08/14 07:10	7439-92-1	J(M1)
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	1.2	%	0.10	0.10	1		05/07/14 09:25		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: **SB-14 (6"-2)** Lab ID: **35135312028** Collected: 04/23/14 11:35 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	3250	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 07:32	7429-90-5	
Antimony	12.5	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 07:32	7440-36-0	
Arsenic	18.5	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 07:32	7440-38-2	
Barium	747	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 07:32	7440-39-3	
Cadmium	3.6	mg/kg	0.056	0.028	1	05/07/14 13:53	05/08/14 07:32	7440-43-9	
Chromium	30.0	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 07:32	7440-47-3	
Copper	437	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 07:32	7440-50-8	
Iron	46400	mg/kg	11.3	5.6	5	05/07/14 13:53	05/08/14 07:36	7439-89-6	
Lead	2160	mg/kg	2.8	1.4	5	05/07/14 13:53	05/08/14 07:36	7439-92-1	
Selenium	0.42U	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 07:32	7782-49-2	
Silver	3.1	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 07:32	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.092	mg/kg	0.0088	0.0044	1	05/16/14 14:58	05/18/14 10:45	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.5	%	0.10	0.10	1		05/07/14 09:25		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-15 (0-6") **Lab ID: 35135312029** Collected: 04/23/14 10:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	138	mg/kg	5.1	2.6	1	05/07/14 13:53	05/08/14 07:48	7429-90-5	
Antimony	0.38U	mg/kg	0.77	0.38	1	05/07/14 13:53	05/08/14 07:48	7440-36-0	
Arsenic	0.26U	mg/kg	0.51	0.26	1	05/07/14 13:53	05/08/14 07:48	7440-38-2	
Barium	3.5	mg/kg	0.51	0.26	1	05/07/14 13:53	05/08/14 07:48	7440-39-3	
Copper	2.0	mg/kg	0.26	0.13	1	05/07/14 13:53	05/08/14 07:48	7440-50-8	
Iron	256	mg/kg	2.0	1.0	1	05/07/14 13:53	05/08/14 07:48	7439-89-6	
Lead	5.4	mg/kg	0.51	0.26	1	05/07/14 13:53	05/08/14 07:48	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	3.2	%	0.10	0.10	1		05/07/14 09:25		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-15 (6"-2) **Lab ID: 35135312030** Collected: 04/23/14 10:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	947	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 07:52	7429-90-5	
Antimony	6.2	mg/kg	0.81	0.40	1	05/07/14 13:53	05/08/14 07:52	7440-36-0	
Arsenic	4.2	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 07:52	7440-38-2	
Barium	137	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 07:52	7440-39-3	
Copper	106	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 07:52	7440-50-8	
Iron	10000	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 07:52	7439-89-6	
Lead	339	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 07:52	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.4	%	0.10	0.10	1		05/07/14 09:26		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: **SB-16 (0-6")** Lab ID: **35135312031** Collected: 04/23/14 12:06 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1370	mg/kg	5.4	2.7	1	04/28/14 03:47	04/28/14 14:04	7429-90-5	
Antimony	0.41U	mg/kg	0.81	0.41	1	04/28/14 03:47	04/28/14 14:04	7440-36-0	
Arsenic	1.6	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:04	7440-38-2	
Barium	20.1	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:04	7440-39-3	
Copper	3.2	mg/kg	0.27	0.14	1	04/28/14 03:47	04/28/14 14:04	7440-50-8	
Iron	862	mg/kg	2.2	1.1	1	04/28/14 03:47	04/28/14 14:04	7439-89-6	
Lead	6.7	mg/kg	0.54	0.27	1	04/28/14 03:47	04/28/14 14:04	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.7	%	0.10	0.10	1		04/29/14 09:49		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-16 (6"-2) **Lab ID: 35135312032** Collected: 04/23/14 12:09 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	328	mg/kg	5.2	2.6	1	04/28/14 03:47	04/28/14 14:07	7429-90-5	
Antimony	0.39U	mg/kg	0.79	0.39	1	04/28/14 03:47	04/28/14 14:07	7440-36-0	
Arsenic	5.4	mg/kg	0.52	0.26	1	04/28/14 03:47	04/28/14 14:07	7440-38-2	
Barium	6.3	mg/kg	0.52	0.26	1	04/28/14 03:47	04/28/14 14:07	7440-39-3	
Copper	3.1	mg/kg	0.26	0.13	1	04/28/14 03:47	04/28/14 14:07	7440-50-8	
Iron	1540	mg/kg	2.1	1.0	1	04/28/14 03:47	04/28/14 14:07	7439-89-6	
Lead	12.1	mg/kg	0.52	0.26	1	04/28/14 03:47	04/28/14 14:07	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	4.9	%	0.10	0.10	1		04/29/14 09:49		J(D6)

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-17 (0-6") **Lab ID: 35135312033** Collected: 04/23/14 13:30 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	623	mg/kg	5.3	2.6	1	05/07/14 13:53	05/08/14 07:56	7429-90-5	
Antimony	0.40U	mg/kg	0.79	0.40	1	05/07/14 13:53	05/08/14 07:56	7440-36-0	
Arsenic	0.97	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 07:56	7440-38-2	
Barium	5.5	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 07:56	7440-39-3	
Copper	6.5	mg/kg	0.26	0.13	1	05/07/14 13:53	05/08/14 07:56	7440-50-8	
Iron	937	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 07:56	7439-89-6	
Lead	20.5	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 07:56	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	3.9	%	0.10	0.10	1		05/07/14 09:26		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-17 (6"-2) **Lab ID: 35135312034** Collected: 04/23/14 13:35 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1300	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 07:59	7429-90-5	
Antimony	0.57	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 07:59	7440-36-0	
Arsenic	3.2	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 07:59	7440-38-2	
Barium	19.7	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 07:59	7440-39-3	
Copper	15.4	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 07:59	7440-50-8	
Iron	2020	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 07:59	7439-89-6	
Lead	46.6	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 07:59	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.1	%	0.10	0.10	1		05/07/14 09:27		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-18 (0-6") **Lab ID: 35135312035** Collected: 04/23/14 13:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1000	mg/kg	5.5	2.7	1	05/07/14 13:53	05/08/14 08:14	7429-90-5	
Antimony	0.41U	mg/kg	0.82	0.41	1	05/07/14 13:53	05/08/14 08:14	7440-36-0	
Arsenic	3.6	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:14	7440-38-2	
Barium	11.8	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:14	7440-39-3	
Copper	19.1	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 08:14	7440-50-8	
Iron	2050	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:14	7439-89-6	
Lead	43.4	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:14	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	7.9	%	0.10	0.10	1		05/08/14 08:52		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-18 (6"-2) **Lab ID: 35135312036** Collected: 04/23/14 13:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.011U	mg/kg	0.019	0.011	1	05/05/14 20:00	05/06/14 03:35	12674-11-2	
PCB-1221 (Aroclor 1221)	0.0088U	mg/kg	0.019	0.0088	1	05/05/14 20:00	05/06/14 03:35	11104-28-2	
PCB-1232 (Aroclor 1232)	0.0093U	mg/kg	0.019	0.0093	1	05/05/14 20:00	05/06/14 03:35	11141-16-5	
PCB-1242 (Aroclor 1242)	0.0031U	mg/kg	0.019	0.0031	1	05/05/14 20:00	05/06/14 03:35	53469-21-9	
PCB-1248 (Aroclor 1248)	0.012U	mg/kg	0.019	0.012	1	05/05/14 20:00	05/06/14 03:35	12672-29-6	
PCB-1254 (Aroclor 1254)	0.0075U	mg/kg	0.019	0.0075	1	05/05/14 20:00	05/06/14 03:35	11097-69-1	
PCB-1260 (Aroclor 1260)	0.011U	mg/kg	0.019	0.011	1	05/05/14 20:00	05/06/14 03:35	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	41 %		19.6-135		1	05/05/14 20:00	05/06/14 03:35	877-09-8	
Decachlorobiphenyl (S)	49 %		24.5-162		1	05/05/14 20:00	05/06/14 03:35	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4380	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 08:18	7429-90-5	
Antimony	20.8	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 08:18	7440-36-0	
Arsenic	12.2	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:18	7440-38-2	
Barium	346	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:18	7440-39-3	
Cadmium	3.8	mg/kg	0.056	0.028	1	05/07/14 13:53	05/08/14 08:18	7440-43-9	
Chromium	31.1	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:18	7440-47-3	
Copper	833	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:18	7440-50-8	
Iron	21700	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:18	7439-89-6	
Lead	1380	mg/kg	2.8	1.4	5	05/07/14 13:53	05/08/14 15:01	7439-92-1	D4
Selenium	0.42U	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 08:18	7782-49-2	
Silver	33.9	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:18	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.21	mg/kg	0.0088	0.0044	1	05/16/14 14:58	05/18/14 10:47	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.4	%	0.10	0.10	1		05/08/14 08:53		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-19 (0-6") **Lab ID: 35135312037** Collected: 04/23/14 13:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2660	mg/kg	5.3	2.7	1	05/07/14 13:53	05/08/14 08:23	7429-90-5	
Antimony	0.40U	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 08:23	7440-36-0	
Arsenic	2.5	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 08:23	7440-38-2	
Barium	3.4	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 08:23	7440-39-3	
Copper	2.9	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 08:23	7440-50-8	
Iron	7180	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 08:23	7439-89-6	
Lead	3.5	mg/kg	0.53	0.27	1	05/07/14 13:53	05/08/14 08:23	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.1	%	0.10	0.10	1		05/08/14 08:53		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: **SB-19 (6"-2)** Lab ID: **35135312038** Collected: 04/23/14 13:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	6880	mg/kg	6.4	3.2	1	05/07/14 13:53	05/08/14 08:26	7429-90-5	
Antimony	304	mg/kg	0.96	0.48	1	05/07/14 13:53	05/08/14 08:26	7440-36-0	
Arsenic	30.0	mg/kg	0.64	0.32	1	05/07/14 13:53	05/08/14 08:26	7440-38-2	
Barium	702	mg/kg	0.64	0.32	1	05/07/14 13:53	05/08/14 08:26	7440-39-3	
Cadmium	3.6	mg/kg	0.064	0.032	1	05/07/14 13:53	05/08/14 08:26	7440-43-9	
Chromium	36.7	mg/kg	0.32	0.16	1	05/07/14 13:53	05/08/14 08:26	7440-47-3	
Copper	608	mg/kg	0.32	0.16	1	05/07/14 13:53	05/08/14 08:26	7440-50-8	
Iron	30100	mg/kg	12.9	6.4	5	05/07/14 13:53	05/08/14 15:04	7439-89-6	D4
Lead	5400	mg/kg	3.2	1.6	5	05/07/14 13:53	05/08/14 15:04	7439-92-1	D4
Selenium	0.48U	mg/kg	0.96	0.48	1	05/07/14 13:53	05/08/14 08:26	7782-49-2	
Silver	6.0	mg/kg	0.32	0.16	1	05/07/14 13:53	05/08/14 08:26	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.17	mg/kg	0.010	0.0051	1	05/16/14 14:58	05/18/14 10:49	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.6	%	0.10	0.10	1		05/08/14 08:54		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-20 (0-6") Lab ID: 35135312039 Collected: 04/23/14 15:30 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1520	mg/kg	5.7	2.8	1	04/28/14 03:47	04/28/14 14:11	7429-90-5	
Antimony	2.9	mg/kg	0.85	0.43	1	04/28/14 03:47	04/28/14 14:11	7440-36-0	
Arsenic	14.7	mg/kg	0.57	0.28	1	04/28/14 03:47	04/28/14 14:11	7440-38-2	
Barium	95.4	mg/kg	0.57	0.28	1	04/28/14 03:47	04/28/14 14:11	7440-39-3	
Copper	114	mg/kg	0.28	0.14	1	04/28/14 03:47	04/28/14 14:11	7440-50-8	
Iron	3910	mg/kg	2.3	1.1	1	04/28/14 03:47	04/28/14 14:11	7439-89-6	
Lead	288	mg/kg	0.57	0.28	1	04/28/14 03:47	04/28/14 14:11	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.5	%	0.10	0.10	1		04/29/14 09:50		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-20 (6"-2) **Lab ID: 35135312040** Collected: 04/23/14 15:35 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.069U	mg/kg	0.11	0.069	1	05/05/14 20:00	05/06/14 07:25	12674-11-2	
PCB-1221 (Aroclor 1221)	0.054U	mg/kg	0.11	0.054	1	05/05/14 20:00	05/06/14 07:25	11104-28-2	
PCB-1232 (Aroclor 1232)	0.057U	mg/kg	0.11	0.057	1	05/05/14 20:00	05/06/14 07:25	11141-16-5	
PCB-1242 (Aroclor 1242)	0.019U	mg/kg	0.11	0.019	1	05/05/14 20:00	05/06/14 07:25	53469-21-9	
PCB-1248 (Aroclor 1248)	0.073U	mg/kg	0.11	0.073	1	05/05/14 20:00	05/06/14 07:25	12672-29-6	
PCB-1254 (Aroclor 1254)	0.046U	mg/kg	0.11	0.046	1	05/05/14 20:00	05/06/14 07:25	11097-69-1	
PCB-1260 (Aroclor 1260)	0.070U	mg/kg	0.11	0.070	1	05/05/14 20:00	05/06/14 07:25	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	89 %		19.6-135		1	05/05/14 20:00	05/06/14 07:25	877-09-8	
Decachlorobiphenyl (S)	81 %		24.5-162		1	05/05/14 20:00	05/06/14 07:25	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	9200	mg/kg	5.8	2.9	1	04/28/14 03:47	04/28/14 14:15	7429-90-5	
Antimony	39.1	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 14:15	7440-36-0	
Arsenic	31.1	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 14:15	7440-38-2	
Barium	572	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 14:15	7440-39-3	
Cadmium	5.2	mg/kg	0.058	0.029	1	04/28/14 03:47	04/28/14 14:15	7440-43-9	
Chromium	35.1	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:15	7440-47-3	
Copper	1130	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:15	7440-50-8	
Iron	50200	mg/kg	11.5	5.8	5	04/28/14 03:47	04/29/14 04:31	7439-89-6	D4
Lead	2000	mg/kg	2.9	1.4	5	04/28/14 03:47	04/29/14 04:31	7439-92-1	D4
Selenium	1.0	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 14:15	7782-49-2	
Silver	5.0	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:15	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.25	mg/kg	0.0088	0.0044	1	05/16/14 14:58	05/18/14 10:56	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.9	%	0.10	0.10	1		04/29/14 09:50		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-21 (0-6") **Lab ID: 35135312041** Collected: 04/23/14 15:42 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2050	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 08:30	7429-90-5	
Antimony	2.1	mg/kg	0.87	0.44	1	05/07/14 13:53	05/08/14 08:30	7440-36-0	
Arsenic	13.4	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 08:30	7440-38-2	
Barium	55.6	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 08:30	7440-39-3	
Copper	57.1	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 08:30	7440-50-8	
Iron	3670	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 08:30	7439-89-6	
Lead	192	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 08:30	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.1	%	0.10	0.10	1		05/08/14 08:55		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: **SB-21 (6"-2)** Lab ID: **35135312042** Collected: 04/23/14 15:50 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2720	mg/kg	5.9	2.9	1	05/07/14 13:53	05/08/14 08:34	7429-90-5	
Antimony	2.8	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 08:34	7440-36-0	
Arsenic	19.9	mg/kg	0.59	0.29	1	05/07/14 13:53	05/08/14 08:34	7440-38-2	
Barium	85.4	mg/kg	0.59	0.29	1	05/07/14 13:53	05/08/14 08:34	7440-39-3	
Cadmium	0.98	mg/kg	0.059	0.029	1	05/07/14 13:53	05/08/14 08:34	7440-43-9	
Chromium	28.8	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 08:34	7440-47-3	
Copper	85.9	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 08:34	7440-50-8	
Iron	7170	mg/kg	2.4	1.2	1	05/07/14 13:53	05/08/14 08:34	7439-89-6	
Lead	588	mg/kg	0.59	0.29	1	05/07/14 13:53	05/08/14 08:34	7439-92-1	
Selenium	0.44U	mg/kg	0.88	0.44	1	05/07/14 13:53	05/08/14 08:34	7782-49-2	
Silver	0.66	mg/kg	0.29	0.15	1	05/07/14 13:53	05/08/14 08:34	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.14	mg/kg	0.0090	0.0045	1	05/16/14 14:58	05/18/14 10:58	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.3	%	0.10	0.10	1		05/08/14 08:55		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-22 (0-6") **Lab ID: 35135312043** Collected: 04/23/14 13:50 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	3150	mg/kg	5.3	2.7	1	04/28/14 03:47	04/28/14 14:20	7429-90-5	
Antimony	0.40	mg/kg	0.80	0.40	1	04/28/14 03:47	04/28/14 14:20	7440-36-0	
Arsenic	4.6	mg/kg	0.53	0.27	1	04/28/14 03:47	04/28/14 14:20	7440-38-2	
Barium	13.7	mg/kg	0.53	0.27	1	04/28/14 03:47	04/28/14 14:20	7440-39-3	
Copper	10.8	mg/kg	0.27	0.13	1	04/28/14 03:47	04/28/14 14:20	7440-50-8	
Iron	8880	mg/kg	2.1	1.1	1	04/28/14 03:47	04/28/14 14:20	7439-89-6	
Lead	35.6	mg/kg	0.53	0.27	1	04/28/14 03:47	04/28/14 14:20	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.4	%	0.10	0.10	1		04/29/14 09:51		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-22 (6"-2) Lab ID: 35135312044 Collected: 04/23/14 13:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	4340	mg/kg	5.7	2.9	1	04/28/14 03:47	04/28/14 14:24	7429-90-5	
Antimony	13.2	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 14:24	7440-36-0	
Arsenic	161	mg/kg	0.57	0.29	1	04/28/14 03:47	04/28/14 14:24	7440-38-2	
Barium	248	mg/kg	0.57	0.29	1	04/28/14 03:47	04/28/14 14:24	7440-39-3	
Cadmium	2.3	mg/kg	0.057	0.029	1	04/28/14 03:47	04/28/14 14:24	7440-43-9	
Chromium	51.2	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:24	7440-47-3	
Copper	758	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:24	7440-50-8	
Iron	17400	mg/kg	2.3	1.1	1	04/28/14 03:47	04/28/14 14:24	7439-89-6	
Lead	1020	mg/kg	0.57	0.29	1	04/28/14 03:47	04/28/14 14:24	7439-92-1	
Selenium	0.64	mg/kg	0.86	0.43	1	04/28/14 03:47	04/28/14 14:24	7782-49-2	
Silver	3.3	mg/kg	0.29	0.14	1	04/28/14 03:47	04/28/14 14:24	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.25	mg/kg	0.0092	0.0046	1	05/16/14 14:58	05/18/14 11:00	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.0	%	0.10	0.10	1		04/29/14 09:52		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-23 (0-6") **Lab ID: 35135312045** Collected: 04/23/14 14:40 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	544	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 08:38	7429-90-5	
Antimony	0.41U	mg/kg	0.81	0.41	1	05/07/14 13:53	05/08/14 08:38	7440-36-0	
Arsenic	3.8	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 08:38	7440-38-2	
Barium	9.1	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 08:38	7440-39-3	
Copper	6.2	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 08:38	7440-50-8	
Iron	1150	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:38	7439-89-6	
Lead	20.3	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 08:38	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.9	%	0.10	0.10	1		05/08/14 08:56		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: **SB-23 (6"-2)** Lab ID: **35135312046** Collected: 04/23/14 14:46 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1020	mg/kg	5.5	2.7	1	05/07/14 13:53	05/08/14 08:42	7429-90-5	
Antimony	0.41U	mg/kg	0.82	0.41	1	05/07/14 13:53	05/08/14 08:42	7440-36-0	
Arsenic	1.4	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:42	7440-38-2	
Barium	13.4	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:42	7440-39-3	
Copper	15.3	mg/kg	0.27	0.14	1	05/07/14 13:53	05/08/14 08:42	7440-50-8	
Iron	1290	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:42	7439-89-6	
Lead	43.5	mg/kg	0.55	0.27	1	05/07/14 13:53	05/08/14 08:42	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.4	%	0.10	0.10	1		05/08/14 08:56		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-24 (0-6") **Lab ID: 35135312047** Collected: 04/23/14 16:55 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	557	mg/kg	6.1	3.0	1	04/28/14 03:47	04/28/14 14:39	7429-90-5	
Antimony	0.46U	mg/kg	0.91	0.46	1	04/28/14 03:47	04/28/14 14:39	7440-36-0	
Arsenic	1.6	mg/kg	0.61	0.30	1	04/28/14 03:47	04/28/14 14:39	7440-38-2	
Barium	43.6	mg/kg	0.61	0.30	1	04/28/14 03:47	04/28/14 14:39	7440-39-3	
Copper	34.5	mg/kg	0.30	0.15	1	04/28/14 03:47	04/28/14 14:39	7440-50-8	
Iron	1390	mg/kg	2.4	1.2	1	04/28/14 03:47	04/28/14 14:39	7439-89-6	
Lead	32.1	mg/kg	0.61	0.30	1	04/28/14 03:47	04/28/14 14:39	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.5	%	0.10	0.10	1		04/29/14 09:52		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-24 (6"-2) **Lab ID: 35135312048** Collected: 04/23/14 17:00 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1140	mg/kg	5.6	2.8	1	04/28/14 03:47	04/28/14 14:43	7429-90-5	
Antimony	1.9	mg/kg	0.84	0.42	1	04/28/14 03:47	04/28/14 14:43	7440-36-0	
Arsenic	7.5	mg/kg	0.56	0.28	1	04/28/14 03:47	04/28/14 14:43	7440-38-2	
Barium	49.9	mg/kg	0.56	0.28	1	04/28/14 03:47	04/28/14 14:43	7440-39-3	
Copper	62.2	mg/kg	0.28	0.14	1	04/28/14 03:47	04/28/14 14:43	7440-50-8	
Iron	6270	mg/kg	2.2	1.1	1	04/28/14 03:47	04/28/14 14:43	7439-89-6	
Lead	197	mg/kg	0.56	0.28	1	04/28/14 03:47	04/28/14 14:43	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.5	%	0.10	0.10	1		04/29/14 09:53		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-25 (0-6") **Lab ID: 35135312049** Collected: 04/23/14 14:52 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	906	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 08:46	7429-90-5	
Antimony	0.53 l	mg/kg	0.83	0.42	1	05/07/14 13:53	05/08/14 08:46	7440-36-0	
Arsenic	4.4	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:46	7440-38-2	
Barium	12.7	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:46	7440-39-3	
Copper	15.8	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:46	7440-50-8	
Iron	1980	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:46	7439-89-6	
Lead	112	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:46	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.9	%	0.10	0.10	1		05/08/14 08:57		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-25 (6"-2) Lab ID: 35135312050 Collected: 04/23/14 15:00 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2100	mg/kg	5.6	2.8	1	05/07/14 13:53	05/08/14 08:50	7429-90-5	
Antimony	4.8	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 08:50	7440-36-0	
Arsenic	9.6	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:50	7440-38-2	
Barium	148	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:50	7440-39-3	
Cadmium	3.1	mg/kg	0.056	0.028	1	05/07/14 13:53	05/08/14 08:50	7440-43-9	
Chromium	37.4	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:50	7440-47-3	
Copper	224	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:50	7440-50-8	
Iron	21800	mg/kg	2.2	1.1	1	05/07/14 13:53	05/08/14 08:50	7439-89-6	
Lead	400	mg/kg	0.56	0.28	1	05/07/14 13:53	05/08/14 08:50	7439-92-1	
Selenium	0.42U	mg/kg	0.84	0.42	1	05/07/14 13:53	05/08/14 08:50	7782-49-2	
Silver	1.5	mg/kg	0.28	0.14	1	05/07/14 13:53	05/08/14 08:50	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.83	mg/kg	0.045	0.023	5	05/16/14 14:58	05/18/14 12:36	7439-97-6	D4
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.0	%	0.10	0.10	1		05/08/14 08:58		J(D6)

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-26 (0-6") **Lab ID: 35135312051** Collected: 04/23/14 15:03 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	208	mg/kg	5.8	2.9	1	05/07/14 13:53	05/08/14 09:05	7429-90-5	
Antimony	0.43U	mg/kg	0.86	0.43	1	05/07/14 13:53	05/08/14 09:05	7440-36-0	
Arsenic	6.6	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:05	7440-38-2	
Barium	11.1	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:05	7440-39-3	
Copper	3.6	mg/kg	0.29	0.14	1	05/07/14 13:53	05/08/14 09:05	7440-50-8	
Iron	608	mg/kg	2.3	1.2	1	05/07/14 13:53	05/08/14 09:05	7439-89-6	
Lead	3.9	mg/kg	0.58	0.29	1	05/07/14 13:53	05/08/14 09:05	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.6	%	0.10	0.10	1		05/08/14 08:59		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-26 (6"-2) **Lab ID: 35135312052** Collected: 04/23/14 15:08 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1040	mg/kg	5.3	2.6	1	05/07/14 13:53	05/08/14 09:09	7429-90-5	
Antimony	0.50	mg/kg	0.79	0.40	1	05/07/14 13:53	05/08/14 09:09	7440-36-0	
Arsenic	3.3	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 09:09	7440-38-2	
Barium	22.8	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 09:09	7440-39-3	
Copper	8.1	mg/kg	0.26	0.13	1	05/07/14 13:53	05/08/14 09:09	7440-50-8	
Iron	1350	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 09:09	7439-89-6	
Lead	41.0	mg/kg	0.53	0.26	1	05/07/14 13:53	05/08/14 09:09	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.0	%	0.10	0.10	1		05/08/14 08:59		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-27 (0-6") **Lab ID: 35135312053** Collected: 04/23/14 14:28 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	636	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 09:13	7429-90-5	
Antimony	0.45	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 09:13	7440-36-0	
Arsenic	3.4	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:13	7440-38-2	
Barium	11.8	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:13	7440-39-3	
Copper	14.5	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 09:13	7440-50-8	
Iron	2860	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 09:13	7439-89-6	
Lead	39.3	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:13	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	7.4	%	0.10	0.10	1		05/08/14 08:59		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-27 (6"-2) **Lab ID: 35135312054** Collected: 04/23/14 14:38 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1070	mg/kg	5.4	2.7	1	05/07/14 13:53	05/08/14 09:17	7429-90-5	
Antimony	1.3	mg/kg	0.80	0.40	1	05/07/14 13:53	05/08/14 09:17	7440-36-0	
Arsenic	4.7	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:17	7440-38-2	
Barium	32.4	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:17	7440-39-3	
Copper	45.8	mg/kg	0.27	0.13	1	05/07/14 13:53	05/08/14 09:17	7440-50-8	
Iron	3460	mg/kg	2.1	1.1	1	05/07/14 13:53	05/08/14 09:17	7439-89-6	
Lead	92.1	mg/kg	0.54	0.27	1	05/07/14 13:53	05/08/14 09:17	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	5.8	%	0.10	0.10	1		05/08/14 09:00		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-28 (0-6") Lab ID: 35135312055 Collected: 04/23/14 15:12 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2000	mg/kg	5.5	2.8	1	05/08/14 05:08	05/08/14 10:54	7429-90-5	J(M1), J(R1)
Antimony	0.50	mg/kg	0.83	0.41	1	05/08/14 05:08	05/08/14 10:54	7440-36-0	
Arsenic	5.5	mg/kg	0.55	0.28	1	05/08/14 05:08	05/08/14 10:54	7440-38-2	
Barium	21.3	mg/kg	0.55	0.28	1	05/08/14 05:08	05/08/14 10:54	7440-39-3	J(M1)
Copper	12.9	mg/kg	0.28	0.14	1	05/08/14 05:08	05/08/14 10:54	7440-50-8	J(M1)
Iron	4960	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 10:54	7439-89-6	J(M1), J(R1)
Lead	38.9	mg/kg	0.55	0.28	1	05/08/14 05:08	05/08/14 10:54	7439-92-1	J(M1)
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.2	%	0.10	0.10	1		05/08/14 09:00		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-28 (6"-2) **Lab ID: 35135312056** Collected: 04/23/14 15:18 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1560	mg/kg	5.6	2.8	1	05/08/14 05:08	05/08/14 11:05	7429-90-5	
Antimony	0.49	mg/kg	0.84	0.42	1	05/08/14 05:08	05/08/14 11:05	7440-36-0	
Arsenic	4.8	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 11:05	7440-38-2	
Barium	35.3	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 11:05	7440-39-3	
Copper	10.1	mg/kg	0.28	0.14	1	05/08/14 05:08	05/08/14 11:05	7440-50-8	
Iron	2420	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 11:05	7439-89-6	
Lead	58.4	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 11:05	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.7	%	0.10	0.10	1		05/08/14 09:01		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-29 (0-6") **Lab ID: 35135312057** Collected: 04/23/14 14:10 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2000	mg/kg	5.3	2.6	1	05/08/14 05:08	05/08/14 13:32	7429-90-5	
Antimony	0.40U	mg/kg	0.79	0.40	1	05/08/14 05:08	05/08/14 13:32	7440-36-0	
Arsenic	1.7	mg/kg	0.53	0.26	1	05/08/14 05:08	05/08/14 13:32	7440-38-2	
Barium	1.9	mg/kg	0.53	0.26	1	05/08/14 05:08	05/08/14 13:32	7440-39-3	
Copper	1.1	mg/kg	0.26	0.13	1	05/08/14 05:08	05/08/14 13:32	7440-50-8	
Iron	5940	mg/kg	2.1	1.1	1	05/08/14 05:08	05/08/14 13:32	7439-89-6	
Lead	9.3	mg/kg	0.53	0.26	1	05/08/14 05:08	05/08/14 13:32	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	5.0	%	0.10	0.10	1		05/08/14 09:01		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: **SB-29 (6"-2)** Lab ID: **35135312058** Collected: 04/23/14 14:15 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1370	mg/kg	5.4	2.7	1	05/08/14 05:08	05/08/14 13:36	7429-90-5	
Antimony	0.41U	mg/kg	0.81	0.41	1	05/08/14 05:08	05/08/14 13:36	7440-36-0	
Arsenic	0.98	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:36	7440-38-2	
Barium	7.8	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:36	7440-39-3	
Copper	4.5	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 13:36	7440-50-8	
Iron	2040	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 13:36	7439-89-6	
Lead	25.9	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:36	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.2	%	0.10	0.10	1		05/08/14 09:02		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-30 (0-6") **Lab ID: 35135312059** Collected: 04/23/14 16:00 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1200	mg/kg	6.0	3.0	1	05/08/14 05:08	05/08/14 13:40	7429-90-5	
Antimony	0.53	mg/kg	0.90	0.45	1	05/08/14 05:08	05/08/14 13:40	7440-36-0	
Arsenic	11.1	mg/kg	0.60	0.30	1	05/08/14 05:08	05/08/14 13:40	7440-38-2	
Barium	21.8	mg/kg	0.60	0.30	1	05/08/14 05:08	05/08/14 13:40	7440-39-3	
Copper	17.1	mg/kg	0.30	0.15	1	05/08/14 05:08	05/08/14 13:40	7440-50-8	
Iron	1910	mg/kg	2.4	1.2	1	05/08/14 05:08	05/08/14 13:40	7439-89-6	
Lead	40.4	mg/kg	0.60	0.30	1	05/08/14 05:08	05/08/14 13:40	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.6	%	0.10	0.10	1		05/08/14 09:03		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-30 (6"-2) **Lab ID: 35135312060** Collected: 04/23/14 16:10 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1880	mg/kg	5.9	3.0	1	05/08/14 05:08	05/08/14 13:55	7429-90-5	
Antimony	0.72	mg/kg	0.89	0.45	1	05/08/14 05:08	05/08/14 13:55	7440-36-0	
Arsenic	25.9	mg/kg	0.59	0.30	1	05/08/14 05:08	05/08/14 13:55	7440-38-2	
Barium	53.4	mg/kg	0.59	0.30	1	05/08/14 05:08	05/08/14 13:55	7440-39-3	
Cadmium	0.37	mg/kg	0.059	0.030	1	05/08/14 05:08	05/08/14 13:55	7440-43-9	
Chromium	8.1	mg/kg	0.30	0.15	1	05/08/14 05:08	05/08/14 13:55	7440-47-3	
Copper	21.5	mg/kg	0.30	0.15	1	05/08/14 05:08	05/08/14 13:55	7440-50-8	
Iron	2270	mg/kg	2.4	1.2	1	05/08/14 05:08	05/08/14 13:55	7439-89-6	
Lead	48.4	mg/kg	0.59	0.30	1	05/08/14 05:08	05/08/14 13:55	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.7	%	0.10	0.10	1		05/08/14 09:03		J(D6)

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-31 (0-6") Lab ID: 35135312061 Collected: 04/23/14 17:07 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1840	mg/kg	5.4	2.7	1	05/08/14 05:08	05/08/14 13:59	7429-90-5	
Antimony	4.3	mg/kg	0.81	0.41	1	05/08/14 05:08	05/08/14 13:59	7440-36-0	
Arsenic	8.7	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:59	7440-38-2	
Barium	179	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:59	7440-39-3	
Cadmium	1.7	mg/kg	0.054	0.027	1	05/08/14 05:08	05/08/14 13:59	7440-43-9	
Chromium	28.6	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 13:59	7440-47-3	
Copper	105	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 13:59	7440-50-8	
Iron	16300	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 13:59	7439-89-6	
Lead	437	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 13:59	7439-92-1	
Selenium	0.41U	mg/kg	0.81	0.41	1	05/08/14 05:08	05/08/14 13:59	7782-49-2	
Silver	1.3	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 13:59	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.14	mg/kg	0.0086	0.0043	1	05/16/14 14:58	05/18/14 11:08	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.5	%	0.10	0.10	1		05/08/14 09:04		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-31 (6"-2) **Lab ID: 35135312062** Collected: 04/23/14 17:12 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	0.035U	mg/kg	0.057	0.035	1	05/05/14 20:00	05/06/14 06:08	12674-11-2	
PCB-1221 (Aroclor 1221)	0.027U	mg/kg	0.057	0.027	1	05/05/14 20:00	05/06/14 06:08	11104-28-2	
PCB-1232 (Aroclor 1232)	0.029U	mg/kg	0.057	0.029	1	05/05/14 20:00	05/06/14 06:08	11141-16-5	
PCB-1242 (Aroclor 1242)	0.0094U	mg/kg	0.057	0.0094	1	05/05/14 20:00	05/06/14 06:08	53469-21-9	
PCB-1248 (Aroclor 1248)	0.036U	mg/kg	0.057	0.036	1	05/05/14 20:00	05/06/14 06:08	12672-29-6	
PCB-1254 (Aroclor 1254)	0.023U	mg/kg	0.057	0.023	1	05/05/14 20:00	05/06/14 06:08	11097-69-1	
PCB-1260 (Aroclor 1260)	0.035U	mg/kg	0.057	0.035	1	05/05/14 20:00	05/06/14 06:08	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	47 %		19.6-135		1	05/05/14 20:00	05/06/14 06:08	877-09-8	
Decachlorobiphenyl (S)	42 %		24.5-162		1	05/05/14 20:00	05/06/14 06:08	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	6580	mg/kg	5.7	2.9	1	05/08/14 05:08	05/08/14 14:03	7429-90-5	
Antimony	16.3	mg/kg	0.86	0.43	1	05/08/14 05:08	05/08/14 14:03	7440-36-0	
Arsenic	21.9	mg/kg	0.57	0.29	1	05/08/14 05:08	05/08/14 14:03	7440-38-2	
Barium	925	mg/kg	0.57	0.29	1	05/08/14 05:08	05/08/14 14:03	7440-39-3	
Cadmium	6.4	mg/kg	0.057	0.029	1	05/08/14 05:08	05/08/14 14:03	7440-43-9	
Chromium	31.9	mg/kg	0.29	0.14	1	05/08/14 05:08	05/08/14 14:03	7440-47-3	
Copper	623	mg/kg	0.29	0.14	1	05/08/14 05:08	05/08/14 14:03	7440-50-8	
Iron	78200	mg/kg	45.7	22.8	20	05/08/14 05:08	05/08/14 14:57	7439-89-6	D4
Lead	2720	mg/kg	11.4	5.7	20	05/08/14 05:08	05/08/14 14:57	7439-92-1	D4
Selenium	8.6U	mg/kg	17.1	8.6	20	05/08/14 05:08	05/08/14 14:57	7782-49-2	D3
Silver	3.5	mg/kg	0.29	0.14	1	05/08/14 05:08	05/08/14 14:03	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.20	mg/kg	0.0087	0.0044	1	05/16/14 14:58	05/18/14 11:12	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.0	%	0.10	0.10	1		05/08/14 09:04		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-32 (0-6") Lab ID: 35135312063 Collected: 04/23/14 17:05 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	542	mg/kg	5.8	2.9	1	05/08/14 05:08	05/08/14 14:07	7429-90-5	
Antimony	0.47	mg/kg	0.87	0.43	1	05/08/14 05:08	05/08/14 14:07	7440-36-0	
Arsenic	4.1	mg/kg	0.58	0.29	1	05/08/14 05:08	05/08/14 14:07	7440-38-2	
Barium	21.1	mg/kg	0.58	0.29	1	05/08/14 05:08	05/08/14 14:07	7440-39-3	
Copper	30.2	mg/kg	0.29	0.14	1	05/08/14 05:08	05/08/14 14:07	7440-50-8	
Iron	1910	mg/kg	2.3	1.2	1	05/08/14 05:08	05/08/14 14:07	7439-89-6	
Lead	171	mg/kg	0.58	0.29	1	05/08/14 05:08	05/08/14 14:07	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.9	%	0.10	0.10	1		05/08/14 09:05		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: **SB-32 (6"-2)** Lab ID: **35135312064** Collected: 04/23/14 17:05 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1170	mg/kg	5.4	2.7	1	05/08/14 05:08	05/08/14 14:11	7429-90-5	
Antimony	0.79	mg/kg	0.81	0.41	1	05/08/14 05:08	05/08/14 14:11	7440-36-0	
Arsenic	3.4	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 14:11	7440-38-2	
Barium	28.7	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 14:11	7440-39-3	
Copper	24.6	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 14:11	7440-50-8	
Iron	2060	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 14:11	7439-89-6	
Lead	44.0	mg/kg	0.54	0.27	1	05/08/14 05:08	05/08/14 14:11	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.7	%	0.10	0.10	1		05/08/14 09:06		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-33 (0-6") **Lab ID: 35135312065** Collected: 04/23/14 17:13 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1210	mg/kg	5.8	2.9	1	04/28/14 03:47	04/28/14 14:47	7429-90-5	
Antimony	1.3	mg/kg	0.87	0.44	1	04/28/14 03:47	04/28/14 14:47	7440-36-0	
Arsenic	4.5	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 14:47	7440-38-2	
Barium	48.8	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 14:47	7440-39-3	
Copper	66.0	mg/kg	0.29	0.15	1	04/28/14 03:47	04/28/14 14:47	7440-50-8	
Iron	5590	mg/kg	2.3	1.2	1	04/28/14 03:47	04/28/14 14:47	7439-89-6	
Lead	248	mg/kg	0.58	0.29	1	04/28/14 03:47	04/28/14 14:47	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.0	%	0.10	0.10	1		04/29/14 09:54		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-33 (6"-2) Lab ID: 35135312066 Collected: 04/23/14 17:18 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1240	mg/kg	6.1	3.0	1	04/29/14 15:23	04/30/14 06:32	7429-90-5	J(M1)
Antimony	1.2	mg/kg	0.91	0.46	1	04/29/14 15:23	04/30/14 06:32	7440-36-0	
Arsenic	4.0	mg/kg	0.61	0.30	1	04/29/14 15:23	04/30/14 06:32	7440-38-2	
Barium	44.9	mg/kg	0.61	0.30	1	04/29/14 15:23	04/30/14 06:32	7440-39-3	J(M1), J(R1)
Copper	59.7	mg/kg	0.30	0.15	1	04/29/14 15:23	04/30/14 06:32	7440-50-8	J(M1)
Iron	3940	mg/kg	2.4	1.2	1	04/29/14 15:23	04/30/14 06:32	7439-89-6	J(M1), J(R1)
Lead	246	mg/kg	0.61	0.30	1	04/29/14 15:23	04/30/14 06:32	7439-92-1	J(M1)
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	18.0	%	0.10	0.10	1		04/29/14 09:55		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-34 (0-6") **Lab ID: 35135312067** Collected: 04/23/14 16:12 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1930	mg/kg	5.5	2.7	1	05/08/14 05:08	05/08/14 14:15	7429-90-5	
Antimony	0.52	mg/kg	0.82	0.41	1	05/08/14 05:08	05/08/14 14:15	7440-36-0	
Arsenic	10.4	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:15	7440-38-2	
Barium	28.0	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:15	7440-39-3	
Copper	14.5	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 14:15	7440-50-8	
Iron	4830	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 14:15	7439-89-6	
Lead	44.7	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:15	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.8	%	0.10	0.10	1		05/08/14 09:16		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-34 (6"-2) **Lab ID: 35135312068** Collected: 04/23/14 16:18 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1060	mg/kg	5.3	2.7	1	05/08/14 05:08	05/08/14 14:26	7429-90-5	
Antimony	0.40U	mg/kg	0.80	0.40	1	05/08/14 05:08	05/08/14 14:26	7440-36-0	
Arsenic	3.9	mg/kg	0.53	0.27	1	05/08/14 05:08	05/08/14 14:26	7440-38-2	
Barium	14.3	mg/kg	0.53	0.27	1	05/08/14 05:08	05/08/14 14:26	7440-39-3	
Copper	10.2	mg/kg	0.27	0.13	1	05/08/14 05:08	05/08/14 14:26	7440-50-8	
Iron	1740	mg/kg	2.1	1.1	1	05/08/14 05:08	05/08/14 14:26	7439-89-6	
Lead	23.8	mg/kg	0.53	0.27	1	05/08/14 05:08	05/08/14 14:26	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.0	%	0.10	0.10	1		05/08/14 09:18		

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135312

Sample: SB-35 (0-6") **Lab ID: 35135312069** Collected: 04/23/14 16:22 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1040	mg/kg	5.1	2.6	1	04/29/14 15:23	04/30/14 06:43	7429-90-5	
Antimony	0.38U	mg/kg	0.77	0.38	1	04/29/14 15:23	04/30/14 06:43	7440-36-0	
Arsenic	4.8	mg/kg	0.51	0.26	1	04/29/14 15:23	04/30/14 06:43	7440-38-2	
Barium	12.0	mg/kg	0.51	0.26	1	04/29/14 15:23	04/30/14 06:43	7440-39-3	
Copper	12.0	mg/kg	0.26	0.13	1	04/29/14 15:23	04/30/14 06:43	7440-50-8	
Iron	2750	mg/kg	2.0	1.0	1	04/29/14 15:23	04/30/14 06:43	7439-89-6	
Lead	29.7	mg/kg	0.51	0.26	1	04/29/14 15:23	04/30/14 06:43	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	4.7	%	0.10	0.10	1		04/29/14 09:56		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-35 (6"-2) **Lab ID: 35135312070** Collected: 04/23/14 16:30 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	2910	mg/kg	6.0	3.0	1	04/29/14 15:23	04/30/14 07:10	7429-90-5	
Antimony	10.9	mg/kg	0.90	0.45	1	04/29/14 15:23	04/30/14 07:10	7440-36-0	
Arsenic	8.1	mg/kg	0.60	0.30	1	04/29/14 15:23	04/30/14 07:10	7440-38-2	
Barium	128	mg/kg	0.60	0.30	1	04/29/14 15:23	04/30/14 07:10	7440-39-3	
Cadmium	1.0	mg/kg	0.060	0.030	1	04/29/14 15:23	04/30/14 07:10	7440-43-9	
Chromium	13.5	mg/kg	0.30	0.15	1	04/29/14 15:23	04/30/14 07:10	7440-47-3	
Copper	119	mg/kg	0.30	0.15	1	04/29/14 15:23	04/30/14 07:10	7440-50-8	
Iron	5000	mg/kg	2.4	1.2	1	04/29/14 15:23	04/30/14 07:10	7439-89-6	
Lead	1020	mg/kg	0.60	0.30	1	04/29/14 15:23	04/30/14 07:10	7439-92-1	
Selenium	0.75	mg/kg	0.90	0.45	1	04/29/14 15:23	04/30/14 07:10	7782-49-2	
Silver	1.3	mg/kg	0.30	0.15	1	04/29/14 15:23	04/30/14 07:10	7440-22-4	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.22	mg/kg	0.0096	0.0048	1	05/16/14 14:58	05/18/14 11:14	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.9	%	0.10	0.10	1		04/29/14 09:56		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-36 (0-6") **Lab ID: 35135312071** Collected: 04/23/14 16:36 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	984	mg/kg	5.5	2.7	1	05/08/14 05:08	05/08/14 14:30	7429-90-5	
Antimony	0.95	mg/kg	0.82	0.41	1	05/08/14 05:08	05/08/14 14:30	7440-36-0	
Arsenic	3.7	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:30	7440-38-2	
Barium	35.9	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:30	7440-39-3	
Copper	27.6	mg/kg	0.27	0.14	1	05/08/14 05:08	05/08/14 14:30	7440-50-8	
Iron	3260	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 14:30	7439-89-6	
Lead	107	mg/kg	0.55	0.27	1	05/08/14 05:08	05/08/14 14:30	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.1	%	0.10	0.10	1		05/08/14 09:19		

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ANALYTICAL RESULTS

Project: Douglas Park

Pace Project No.: 35135312

Sample: SB-36 (6"-2) **Lab ID: 35135312072** Collected: 04/23/14 16:45 Received: 04/24/14 18:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	1170	mg/kg	5.6	2.8	1	05/08/14 05:08	05/08/14 14:45	7429-90-5	
Antimony	0.61	mg/kg	0.84	0.42	1	05/08/14 05:08	05/08/14 14:45	7440-36-0	
Arsenic	1.2	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 14:45	7440-38-2	
Barium	144	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 14:45	7440-39-3	
Copper	12.6	mg/kg	0.28	0.14	1	05/08/14 05:08	05/08/14 14:45	7440-50-8	
Iron	8240	mg/kg	2.2	1.1	1	05/08/14 05:08	05/08/14 14:45	7439-89-6	
Lead	408	mg/kg	0.56	0.28	1	05/08/14 05:08	05/08/14 14:45	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.1	%	0.10	0.10	1		05/08/14 09:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135312

QC Batch: MERP/4632 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 35135312003, 35135312010, 35135312012, 35135312014

METHOD BLANK: 903288 Matrix: Solid
 Associated Lab Samples: 35135312003, 35135312010, 35135312012, 35135312014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0041U	0.0081	05/16/14 13:38	

LABORATORY CONTROL SAMPLE: 903289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.08	0.067	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 903290 903291

Parameter	Units	35135312003		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/kg	0.30	.09	.09	0.24	0.20	-63	-112	85-115	20	20	J(M1)		

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135312

QC Batch: MERP/4635 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 35135312018, 35135312019, 35135312020, 35135312024, 35135312028, 35135312036, 35135312038, 35135312040, 35135312042, 35135312044, 35135312050, 35135312061, 35135312062, 35135312070

METHOD BLANK: 904290 Matrix: Solid
 Associated Lab Samples: 35135312018, 35135312019, 35135312020, 35135312024, 35135312028, 35135312036, 35135312038, 35135312040, 35135312042, 35135312044, 35135312050, 35135312061, 35135312062, 35135312070

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0040U	0.0080	05/18/14 10:13	

LABORATORY CONTROL SAMPLE: 904291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.082	0.069	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 904292 904293

Parameter	Units	35137647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.014	.081	.083	0.077	0.089	78	90	85-115	14	20	J(M1)

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: MPRP/18205 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35135312009, 35135312010, 35135312013, 35135312014, 35135312021, 35135312022, 35135312031, 35135312032, 35135312039, 35135312040, 35135312043, 35135312044, 35135312047, 35135312048, 35135312065

METHOD BLANK: 888642 Matrix: Solid
Associated Lab Samples: 35135312009, 35135312010, 35135312013, 35135312014, 35135312021, 35135312022, 35135312031, 35135312032, 35135312039, 35135312040, 35135312043, 35135312044, 35135312047, 35135312048, 35135312065

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	2.5U	5.0	04/28/14 11:25	
Antimony	mg/kg	0.38U	0.75	04/28/14 11:25	
Arsenic	mg/kg	0.25U	0.50	04/28/14 11:25	
Barium	mg/kg	0.25U	0.50	04/28/14 11:25	
Cadmium	mg/kg	0.025U	0.050	04/28/14 11:25	
Chromium	mg/kg	0.13U	0.25	04/28/14 11:25	
Copper	mg/kg	0.13U	0.25	04/28/14 11:25	
Iron	mg/kg	1.0U	2.0	04/28/14 11:25	
Lead	mg/kg	0.25U	0.50	04/28/14 11:25	
Selenium	mg/kg	0.38U	0.75	04/28/14 11:25	
Silver	mg/kg	0.13U	0.25	04/28/14 11:25	

LABORATORY CONTROL SAMPLE: 888643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	126	125	99	80-120	
Antimony	mg/kg	12.6	12.8	102	80-120	
Arsenic	mg/kg	12.6	12.4	99	80-120	
Barium	mg/kg	12.6	13.0	103	80-120	
Cadmium	mg/kg	1.3	1.3	104	80-120	
Chromium	mg/kg	12.6	13.3	106	80-120	
Copper	mg/kg	12.6	13.2	105	80-120	
Iron	mg/kg	126	127	101	80-120	
Lead	mg/kg	12.6	13.1	104	80-120	
Selenium	mg/kg	12.6	13.1	104	80-120	
Silver	mg/kg	1.3	1.4	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 888644 888645

Parameter	Units	35135312009		888645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Aluminum	mg/kg	1760	145	145	3030	2860	874	757	75-125	6	20	J(M1)
Antimony	mg/kg	1.8	14.5	14.5	18.1	14.6	112	88	75-125	22	20	J(R1)
Arsenic	mg/kg	4.3	14.5	14.5	18.6	18.6	98	99	75-125	.3	20	
Barium	mg/kg	68.5	14.5	14.5	85.3	82.7	115	97	75-125	3	20	

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135312

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 888644			888645									
Parameter	Units	35135312009 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Cadmium	mg/kg	0.89	1.5	1.5	2.2	2.3	91	95	75-125	2	20	
Chromium	mg/kg	27.7	14.5	14.5	39.7	41.1	82	92	75-125	3	20	
Copper	mg/kg	75.8	14.5	14.5	126	97.1	342	147	75-125	26	20	J(M1), J(R1)
Iron	mg/kg	4570	145	145	4490	4160	-58	-284	75-125	8	20	J(M1)
Lead	mg/kg	215	14.5	14.5	233	229	118	96	75-125	1	20	
Selenium	mg/kg	0.44U	14.5	14.5	13.8	13.8	92	93	75-125	.5	20	
Silver	mg/kg	0.81	1.5	1.5	2.4	2.4	109	109	75-125	.4	20	

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: MPRP/18212 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35135312066, 35135312069, 35135312070

METHOD BLANK: 889302 Matrix: Solid
Associated Lab Samples: 35135312066, 35135312069, 35135312070

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	2.5U	5.0	04/30/14 06:24	
Antimony	mg/kg	0.37U	0.75	04/30/14 06:24	
Arsenic	mg/kg	0.25U	0.50	04/30/14 06:24	
Barium	mg/kg	0.25U	0.50	04/30/14 06:24	
Cadmium	mg/kg	0.025U	0.050	04/30/14 06:24	
Chromium	mg/kg	0.12U	0.25	04/30/14 06:24	
Copper	mg/kg	0.12U	0.25	04/30/14 06:24	
Iron	mg/kg	0.99U	2.0	04/30/14 06:24	
Lead	mg/kg	0.25U	0.50	04/30/14 06:24	
Selenium	mg/kg	0.37U	0.75	04/30/14 06:24	
Silver	mg/kg	0.12U	0.25	04/30/14 06:24	

LABORATORY CONTROL SAMPLE: 889303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	123	128	103	80-120	
Antimony	mg/kg	12.3	12.7	103	80-120	
Arsenic	mg/kg	12.3	12.6	102	80-120	
Barium	mg/kg	12.3	12.9	105	80-120	
Cadmium	mg/kg	1.2	1.3	105	80-120	
Chromium	mg/kg	12.3	13.1	106	80-120	
Copper	mg/kg	12.3	13.0	105	80-120	
Iron	mg/kg	123	130	105	80-120	
Lead	mg/kg	12.3	13.3	107	80-120	
Selenium	mg/kg	12.3	13.0	106	80-120	
Silver	mg/kg	1.2	1.4	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 889304 889305

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35135312066 Result	Spike Conc.	Spike Conc.	Result							
Aluminum	mg/kg	1240	148	155	2420	2260	800	660	75-125	7	20	J(M1)
Antimony	mg/kg	1.2	14.8	15.5	16.1	15.9	101	95	75-125	1	20	
Arsenic	mg/kg	4.0	14.8	15.5	22.2	21.3	123	112	75-125	4	20	
Barium	mg/kg	44.9	14.8	15.5	95.7	70.1	344	162	75-125	31	20	J(M1), J(R1)
Cadmium	mg/kg	0.68	1.5	1.6	2.3	2.4	112	114	75-125	5	20	
Chromium	mg/kg	16.4	14.8	15.5	34.5	33.9	122	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135312

Parameter	Units	889304		889305		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35135312066 Result	MS Spike Conc.	MSD Spike Conc.									
Copper	mg/kg	59.7	14.8	15.5	105	107	306	304	75-125	2	20	J(M1)	
Iron	mg/kg	3940	148	155	14800	5340	7330	900	75-125	94	20	J(M1), J(R1)	
Lead	mg/kg	246	14.8	15.5	665	643	2840	2550	75-125	3	20	J(M1)	
Selenium	mg/kg	0.46U	14.8	15.5	13.7	15.8	92	101	75-125	15	20		
Silver	mg/kg	0.72	1.5	1.6	2.1	2.4	95	106	75-125	11	20		

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: MPRP/18321 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35135312001, 35135312002, 35135312003, 35135312004, 35135312005, 35135312006, 35135312007, 35135312008, 35135312011, 35135312012, 35135312015, 35135312016, 35135312017, 35135312018, 35135312019, 35135312020, 35135312023, 35135312024, 35135312025, 35135312026

METHOD BLANK: 894826 Matrix: Solid
Associated Lab Samples: 35135312001, 35135312002, 35135312003, 35135312004, 35135312005, 35135312006, 35135312007, 35135312008, 35135312011, 35135312012, 35135312015, 35135312016, 35135312017, 35135312018, 35135312019, 35135312020, 35135312023, 35135312024, 35135312025, 35135312026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	2.5U	5.0	05/08/14 09:21	
Antimony	mg/kg	0.37U	0.75	05/08/14 09:21	
Arsenic	mg/kg	0.25U	0.50	05/08/14 09:21	
Barium	mg/kg	0.25U	0.50	05/08/14 09:21	
Cadmium	mg/kg	0.025U	0.050	05/08/14 09:21	
Chromium	mg/kg	0.12U	0.25	05/08/14 09:21	
Copper	mg/kg	0.12U	0.25	05/08/14 09:21	
Iron	mg/kg	1.0U	2.0	05/08/14 09:21	
Lead	mg/kg	0.25U	0.50	05/08/14 09:21	
Selenium	mg/kg	0.37U	0.75	05/08/14 09:21	
Silver	mg/kg	0.12U	0.25	05/08/14 09:21	

LABORATORY CONTROL SAMPLE: 894827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	125	128	102	80-120	
Antimony	mg/kg	12.5	13.0	104	80-120	
Arsenic	mg/kg	12.5	12.6	100	80-120	
Barium	mg/kg	12.5	13.4	107	80-120	
Cadmium	mg/kg	1.3	1.3	107	80-120	
Chromium	mg/kg	12.5	13.5	108	80-120	
Copper	mg/kg	12.5	13.3	106	80-120	
Iron	mg/kg	125	131	105	80-120	
Lead	mg/kg	12.5	13.5	108	80-120	
Selenium	mg/kg	12.5	13.3	106	80-120	
Silver	mg/kg	1.3	1.3	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 894828 894829

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Aluminum	mg/kg	838	142	142	1570	1400	513	396	75-125	11	20	J(M1)	
Antimony	mg/kg	0.43U	14.2	14.2	14.9	14.9	103	103	75-125	.4	20		
Arsenic	mg/kg	0.88	14.2	14.2	16.1	16.3	106	108	75-125	1	20		
Barium	mg/kg	13.8	14.2	14.2	28.4	27.3	102	94	75-125	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135312

Parameter	Units	894828		894829		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35135312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Cadmium	mg/kg	0.18	1.5	1.5	1.5	1.5	1.5	93	94	75-125	.02	20
Chromium	mg/kg	4.6	14.2	14.2	19.8	19.1	106	102	75-125	3	20	
Copper	mg/kg	9.8	14.2	14.2	25.9	25.2	113	109	75-125	3	20	
Iron	mg/kg	1140	142	142	1380	1290	165	104	75-125	7	20	J(M1)
Lead	mg/kg	33.0	14.2	14.2	45.7	42.0	89	64	75-125	8	20	J(M1)
Selenium	mg/kg	0.43U	14.2	14.2	15.1	15.3	104	106	75-125	2	20	
Silver	mg/kg	0.14U	1.5	1.5	1.5	1.6	104	110	75-125	6	20	

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: MPRP/18322 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35135312027, 35135312028, 35135312029, 35135312030, 35135312033, 35135312034, 35135312035, 35135312036, 35135312037, 35135312038, 35135312041, 35135312042, 35135312045, 35135312046, 35135312049, 35135312050, 35135312051, 35135312052, 35135312053, 35135312054

METHOD BLANK: 894830 Matrix: Solid
Associated Lab Samples: 35135312027, 35135312028, 35135312029, 35135312030, 35135312033, 35135312034, 35135312035, 35135312036, 35135312037, 35135312038, 35135312041, 35135312042, 35135312045, 35135312046, 35135312049, 35135312050, 35135312051, 35135312052, 35135312053, 35135312054

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	2.5U	5.0	05/08/14 07:02	
Antimony	mg/kg	0.37U	0.74	05/08/14 07:02	
Arsenic	mg/kg	0.25U	0.50	05/08/14 07:02	
Barium	mg/kg	0.25U	0.50	05/08/14 07:02	
Cadmium	mg/kg	0.025U	0.050	05/08/14 07:02	
Chromium	mg/kg	0.12U	0.25	05/08/14 07:02	
Copper	mg/kg	0.12U	0.25	05/08/14 07:02	
Iron	mg/kg	0.99U	2.0	05/08/14 07:02	
Lead	mg/kg	0.25U	0.50	05/08/14 07:02	
Selenium	mg/kg	0.37U	0.74	05/08/14 07:02	
Silver	mg/kg	0.12U	0.25	05/08/14 07:02	

LABORATORY CONTROL SAMPLE: 894831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	127	126	99	80-120	
Antimony	mg/kg	12.7	13.1	103	80-120	
Arsenic	mg/kg	12.7	12.7	100	80-120	
Barium	mg/kg	12.7	13.0	102	80-120	
Cadmium	mg/kg	1.3	1.3	106	80-120	
Chromium	mg/kg	12.7	13.4	106	80-120	
Copper	mg/kg	12.7	13.1	103	80-120	
Iron	mg/kg	127	130	102	80-120	
Lead	mg/kg	12.7	13.6	107	80-120	
Selenium	mg/kg	12.7	13.3	105	80-120	
Silver	mg/kg	1.3	1.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 894832 894833

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Spike Conc.	Result	Spike Conc.	Result							
Aluminum	mg/kg	117	125	129	393	403	220	223	75-125	3	20	J(M1)
Antimony	mg/kg	0.37U	12.5	12.9	12.8	13.1	99	100	75-125	2	20	
Arsenic	mg/kg	0.36 l	12.5	12.9	12.6	12.9	98	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

Parameter	Units	894832		894833		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35135312027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/kg	11.6	12.5	12.9	17.7	22.7	49	86	75-125	24	20	J(M1), J(R1)	
Cadmium	mg/kg	0.049	1.2	1.3	1.3	1.4	101	102	75-125	3	20		
Chromium	mg/kg	1.0	12.5	12.9	13.8	14.3	102	103	75-125	3	20		
Copper	mg/kg	9.4	12.5	12.9	15.8	16.0	51	52	75-125	1	20	J(M1)	
Iron	mg/kg	1510	125	129	1040	382	-378	-878	75-125	92	20	J(M1), J(R1)	
Lead	mg/kg	17.5	12.5	12.9	24.6	23.6	57	48	75-125	4	20	J(M1)	
Selenium	mg/kg	0.37U	12.5	12.9	12.9	13.3	102	103	75-125	4	20		
Silver	mg/kg	0.12U	1.2	1.3	1.3	1.4	102	104	75-125	4	20		

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: MPRP/18323 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET Solid
Associated Lab Samples: 35135312055, 35135312056, 35135312057, 35135312058, 35135312059, 35135312060, 35135312061, 35135312062, 35135312063, 35135312064, 35135312067, 35135312068, 35135312071, 35135312072

METHOD BLANK: 894837 Matrix: Solid
Associated Lab Samples: 35135312055, 35135312056, 35135312057, 35135312058, 35135312059, 35135312060, 35135312061, 35135312062, 35135312063, 35135312064, 35135312067, 35135312068, 35135312071, 35135312072

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	2.5U	5.0	05/08/14 10:46	
Antimony	mg/kg	0.37U	0.75	05/08/14 10:46	
Arsenic	mg/kg	0.25U	0.50	05/08/14 10:46	
Barium	mg/kg	0.25U	0.50	05/08/14 10:46	
Cadmium	mg/kg	0.025U	0.050	05/08/14 10:46	
Chromium	mg/kg	0.12U	0.25	05/08/14 10:46	
Copper	mg/kg	0.12U	0.25	05/08/14 10:46	
Iron	mg/kg	1.0U	2.0	05/08/14 10:46	
Lead	mg/kg	0.25U	0.50	05/08/14 10:46	
Selenium	mg/kg	0.37U	0.75	05/08/14 10:46	
Silver	mg/kg	0.12U	0.25	05/08/14 10:46	

LABORATORY CONTROL SAMPLE: 894838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	126	125	99	80-120	
Antimony	mg/kg	12.6	13.2	105	80-120	
Arsenic	mg/kg	12.6	12.6	100	80-120	
Barium	mg/kg	12.6	13.0	103	80-120	
Cadmium	mg/kg	1.3	1.3	106	80-120	
Chromium	mg/kg	12.6	13.2	105	80-120	
Copper	mg/kg	12.6	12.9	103	80-120	
Iron	mg/kg	126	128	102	80-120	
Lead	mg/kg	12.6	13.6	108	80-120	
Selenium	mg/kg	12.6	13.4	106	80-120	
Silver	mg/kg	1.3	1.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 894839 894840

Parameter	Units	35135312055 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/kg	2000	136	139	4380	3300	1750	934	75-125	28	20	J(M1), J(R1)
Antimony	mg/kg	0.50 l	13.6	13.9	12.6	13.0	89	90	75-125	3	20	
Arsenic	mg/kg	5.5	13.6	13.9	19.4	19.0	103	97	75-125	2	20	
Barium	mg/kg	21.3	13.6	13.9	39.7	42.4	136	152	75-125	7	20	J(M1)
Cadmium	mg/kg	0.24	1.3	1.4	1.6	1.6	99	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

Parameter	Units	894839		894840		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35135312055 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chromium	mg/kg	8.4	13.6	13.9	22.3	22.8	102	103	75-125	2	20		
Copper	mg/kg	12.9	13.6	13.9	34.0	31.4	156	133	75-125	8	20	J(M1)	
Iron	mg/kg	4960	136	139	7590	4290	1940	-484	75-125	56	20	J(M1), J(R1)	
Lead	mg/kg	38.9	13.6	13.9	57.0	68.5	133	213	75-125	18	20	J(M1)	
Selenium	mg/kg	0.41U	13.6	13.9	12.9	13.2	94	94	75-125	2	20		
Silver	mg/kg	0.23 l	1.3	1.4	1.6	1.8	101	110	75-125	10	20		

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135312

QC Batch: OEXT/17157 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 35135312012, 35135312014, 35135312020, 35135312024, 35135312036, 35135312040, 35135312062

METHOD BLANK: 892721 Matrix: Solid
Associated Lab Samples: 35135312012, 35135312014, 35135312020, 35135312024, 35135312036, 35135312040, 35135312062

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	0.010U	0.017	05/06/14 02:03	
PCB-1221 (Aroclor 1221)	mg/kg	0.0080U	0.017	05/06/14 02:03	
PCB-1232 (Aroclor 1232)	mg/kg	0.0085U	0.017	05/06/14 02:03	
PCB-1242 (Aroclor 1242)	mg/kg	0.0028U	0.017	05/06/14 02:03	
PCB-1248 (Aroclor 1248)	mg/kg	0.011U	0.017	05/06/14 02:03	
PCB-1254 (Aroclor 1254)	mg/kg	0.0068U	0.017	05/06/14 02:03	
PCB-1260 (Aroclor 1260)	mg/kg	0.010U	0.017	05/06/14 02:03	
Decachlorobiphenyl (S)	%	81	24.5-162	05/06/14 02:03	
Tetrachloro-m-xylene (S)	%	81	19.6-135	05/06/14 02:03	

LABORATORY CONTROL SAMPLE: 892722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.083	0.078	94	62.4-118	
PCB-1260 (Aroclor 1260)	mg/kg	.083	0.079	95	14.4-190	
Decachlorobiphenyl (S)	%			95	24.5-162	
Tetrachloro-m-xylene (S)	%			94	19.6-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 893715 893716

Parameter	Units	35135312068		893716		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
PCB-1016 (Aroclor 1016)	mg/kg				0.062	0.063				2	40	
PCB-1260 (Aroclor 1260)	mg/kg				0.065	0.062				6	40	
Decachlorobiphenyl (S)	%						73	70	24.5-162			
Tetrachloro-m-xylene (S)	%						74	72	19.6-135			

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QUALIFIERS

Project: Douglas Park

Pace Project No.: 35135312

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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(IS) Estimated Value. The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135312012	SB-6 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312014	SB-7 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312020	SB-10 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312024	SB-12 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312036	SB-18 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312040	SB-20 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312062	SB-31 (6"-2)	EPA 3546	OEXT/17157	EPA 8082	GCSV/11235
35135312001	SB-1 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312002	SB-1 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312003	SB-2 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312004	SB-2 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312005	SB-3 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312006	SB-3 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312007	SB-4 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312008	SB-4 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312009	SB-5 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312010	SB-5 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312011	SB-6 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312012	SB-6 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312013	SB-7 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312014	SB-7 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312015	SB-8 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312016	SB-8 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312017	SB-9 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312018	SB-9 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312019	SB-10 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312020	SB-10 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312021	SB-11 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312022	SB-11 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312023	SB-12 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312024	SB-12 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312025	SB-13 (0-6")	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312026	SB-13 (6"-2)	EPA 3050	MPRP/18321	EPA 6010	ICP/11344
35135312027	SB-14 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312028	SB-14 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312029	SB-15 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312030	SB-15 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312031	SB-16 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312032	SB-16 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312033	SB-17 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312034	SB-17 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312035	SB-18 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312036	SB-18 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312037	SB-19 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135312038	SB-19 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312039	SB-20 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312040	SB-20 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312041	SB-21 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312042	SB-21 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312043	SB-22 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312044	SB-22 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312045	SB-23 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312046	SB-23 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312047	SB-24 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312048	SB-24 (6"-2)	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312049	SB-25 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312050	SB-25 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312051	SB-26 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312052	SB-26 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312053	SB-27 (0-6")	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312054	SB-27 (6"-2)	EPA 3050	MPRP/18322	EPA 6010	ICP/11343
35135312055	SB-28 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312056	SB-28 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312057	SB-29 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312058	SB-29 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312059	SB-30 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312060	SB-30 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312061	SB-31 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312062	SB-31 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312063	SB-32 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312064	SB-32 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312065	SB-33 (0-6")	EPA 3050	MPRP/18205	EPA 6010	ICP/11275
35135312066	SB-33 (6"-2)	EPA 3050	MPRP/18212	EPA 6010	ICP/11283
35135312067	SB-34 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312068	SB-34 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312069	SB-35 (0-6")	EPA 3050	MPRP/18212	EPA 6010	ICP/11283
35135312070	SB-35 (6"-2)	EPA 3050	MPRP/18212	EPA 6010	ICP/11283
35135312071	SB-36 (0-6")	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312072	SB-36 (6"-2)	EPA 3050	MPRP/18323	EPA 6010	ICP/11346
35135312003	SB-2 (0-6")	EPA 7471	MERP/4632	EPA 7471	MERC/4630
35135312010	SB-5 (6"-2)	EPA 7471	MERP/4632	EPA 7471	MERC/4630
35135312012	SB-6 (6"-2)	EPA 7471	MERP/4632	EPA 7471	MERC/4630
35135312014	SB-7 (6"-2)	EPA 7471	MERP/4632	EPA 7471	MERC/4630
35135312018	SB-9 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312019	SB-10 (0-6")	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312020	SB-10 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135312024	SB-12 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312028	SB-14 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312036	SB-18 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312038	SB-19 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312040	SB-20 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312042	SB-21 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312044	SB-22 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312050	SB-25 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312061	SB-31 (0-6")	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312062	SB-31 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312070	SB-35 (6"-2)	EPA 7471	MERP/4635	EPA 7471	MERC/4635
35135312001	SB-1 (0-6")	ASTM D2974-87	PMST/2508		
35135312002	SB-1 (6"-2)	ASTM D2974-87	PMST/2508		
35135312003	SB-2 (0-6")	ASTM D2974-87	PMST/2508		
35135312004	SB-2 (6"-2)	ASTM D2974-87	PMST/2508		
35135312005	SB-3 (0-6")	ASTM D2974-87	PMST/2508		
35135312006	SB-3 (6"-2)	ASTM D2974-87	PMST/2508		
35135312007	SB-4 (0-6")	ASTM D2974-87	PMST/2508		
35135312008	SB-4 (6"-2)	ASTM D2974-87	PMST/2508		
35135312009	SB-5 (0-6")	ASTM D2974-87	PMST/2495		
35135312010	SB-5 (6"-2)	ASTM D2974-87	PMST/2495		
35135312011	SB-6 (0-6")	ASTM D2974-87	PMST/2508		
35135312012	SB-6 (6"-2)	ASTM D2974-87	PMST/2508		
35135312013	SB-7 (0-6")	ASTM D2974-87	PMST/2495		
35135312014	SB-7 (6"-2)	ASTM D2974-87	PMST/2495		
35135312015	SB-8 (0-6")	ASTM D2974-87	PMST/2508		
35135312016	SB-8 (6"-2)	ASTM D2974-87	PMST/2508		
35135312017	SB-9 (0-6")	ASTM D2974-87	PMST/2508		
35135312018	SB-9 (6"-2)	ASTM D2974-87	PMST/2508		
35135312019	SB-10 (0-6")	ASTM D2974-87	PMST/2508		
35135312020	SB-10 (6"-2)	ASTM D2974-87	PMST/2508		
35135312021	SB-11 (0-6")	ASTM D2974-87	PMST/2495		
35135312022	SB-11 (6"-2)	ASTM D2974-87	PMST/2495		
35135312023	SB-12 (0-6")	ASTM D2974-87	PMST/2508		
35135312024	SB-12 (6"-2)	ASTM D2974-87	PMST/2508		
35135312025	SB-13 (0-6")	ASTM D2974-87	PMST/2508		
35135312026	SB-13 (6"-2)	ASTM D2974-87	PMST/2508		
35135312027	SB-14 (0-6")	ASTM D2974-87	PMST/2508		
35135312028	SB-14 (6"-2)	ASTM D2974-87	PMST/2508		
35135312029	SB-15 (0-6")	ASTM D2974-87	PMST/2508		
35135312030	SB-15 (6"-2)	ASTM D2974-87	PMST/2508		
35135312031	SB-16 (0-6")	ASTM D2974-87	PMST/2495		
35135312032	SB-16 (6"-2)	ASTM D2974-87	PMST/2495		
35135312033	SB-17 (0-6")	ASTM D2974-87	PMST/2508		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Douglas Park

Pace Project No.: 35135312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135312034	SB-17 (6"-2)	ASTM D2974-87	PMST/2508		
35135312035	SB-18 (0-6")	ASTM D2974-87	PMST/2509		
35135312036	SB-18 (6"-2)	ASTM D2974-87	PMST/2509		
35135312037	SB-19 (0-6")	ASTM D2974-87	PMST/2509		
35135312038	SB-19 (6"-2)	ASTM D2974-87	PMST/2509		
35135312039	SB-20 (0-6")	ASTM D2974-87	PMST/2495		
35135312040	SB-20 (6"-2)	ASTM D2974-87	PMST/2495		
35135312041	SB-21 (0-6")	ASTM D2974-87	PMST/2509		
35135312042	SB-21 (6"-2)	ASTM D2974-87	PMST/2509		
35135312043	SB-22 (0-6")	ASTM D2974-87	PMST/2495		
35135312044	SB-22 (6"-2)	ASTM D2974-87	PMST/2495		
35135312045	SB-23 (0-6")	ASTM D2974-87	PMST/2509		
35135312046	SB-23 (6"-2)	ASTM D2974-87	PMST/2509		
35135312047	SB-24 (0-6")	ASTM D2974-87	PMST/2495		
35135312048	SB-24 (6"-2)	ASTM D2974-87	PMST/2495		
35135312049	SB-25 (0-6")	ASTM D2974-87	PMST/2509		
35135312050	SB-25 (6"-2)	ASTM D2974-87	PMST/2509		
35135312051	SB-26 (0-6")	ASTM D2974-87	PMST/2509		
35135312052	SB-26 (6"-2)	ASTM D2974-87	PMST/2509		
35135312053	SB-27 (0-6")	ASTM D2974-87	PMST/2509		
35135312054	SB-27 (6"-2)	ASTM D2974-87	PMST/2509		
35135312055	SB-28 (0-6")	ASTM D2974-87	PMST/2509		
35135312056	SB-28 (6"-2)	ASTM D2974-87	PMST/2509		
35135312057	SB-29 (0-6")	ASTM D2974-87	PMST/2509		
35135312058	SB-29 (6"-2)	ASTM D2974-87	PMST/2509		
35135312059	SB-30 (0-6")	ASTM D2974-87	PMST/2509		
35135312060	SB-30 (6"-2)	ASTM D2974-87	PMST/2509		
35135312061	SB-31 (0-6")	ASTM D2974-87	PMST/2509		
35135312062	SB-31 (6"-2)	ASTM D2974-87	PMST/2509		
35135312063	SB-32 (0-6")	ASTM D2974-87	PMST/2509		
35135312064	SB-32 (6"-2)	ASTM D2974-87	PMST/2509		
35135312065	SB-33 (0-6")	ASTM D2974-87	PMST/2495		
35135312066	SB-33 (6"-2)	ASTM D2974-87	PMST/2495		
35135312067	SB-34 (0-6")	ASTM D2974-87	PMST/2509		
35135312068	SB-34 (6"-2)	ASTM D2974-87	PMST/2509		
35135312069	SB-35 (0-6")	ASTM D2974-87	PMST/2495		
35135312070	SB-35 (6"-2)	ASTM D2974-87	PMST/2495		
35135312071	SB-36 (0-6")	ASTM D2974-87	PMST/2509		
35135312072	SB-36 (6"-2)	ASTM D2974-87	PMST/2509		

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Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 05

Document Revised:
October 9, 2013
Issuing Authorities:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: UPS Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no / Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-108 Type of Ice: Wet Blue None

Cooler Temperature °C 4.9 (Visual) -0.2 (Correction Factor) 4.7 (Actual)

Date and Initials of person examining contents: TD 4/24/14

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?
 Yes No

Receipt of samples satisfactory: Yes No

Rush TAT requested on COC: _____

If yes, then all conditions below were met: _____ If no, then mark box & describe issue (use comments area if necessary): _____

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):
no bottle for SB-12 6"-2
or
SB-6 6"-2

Project Manager Review: _____ Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample in Shed: Yes No	

Report Prepared for:

Christina Raschke
PASI Florida
8 East Tower Circle
Ormond Beach FL 32174

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

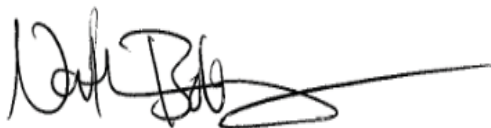
Pace Project #: 10266027
Sample Receipt Date: 05/06/2014
Client Project #: 35135312
Client Sub PO #: N/A
State Cert #: E87605

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

This report has been reviewed by:



May 20, 2014

Nate Boberg,

(fax)

Report Prepared Date:

May 20, 2014



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on two samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 52-106%. Except for one low value, which was flagged "R" on the results table, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners; the affected values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that PCDDs and PCDFs were not detected.

Laboratory spike samples were also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 82-127% with relative percent differences of 1.0-19.0%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE)	MN002
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP)	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management



Chain of Custody

Workorder: 35135312 Workorder Name: Douglas Park

Owner Received Date: 4/24/2014 Results Requested By: S/22/14

Report To: Christina Raschke
 Pace Analytical Services, Inc.
 8 East Tower Circle
 Ormond Beach, FL 32174
 Phone (386)672-5668
 Fax (386)672-5668

Subcontract To: Pace Analytical Minnesota
 1700 Elm Street SE
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	
						Unpreserved	
1	SB-7 (6"-2)	PS	4/23/2014 12:12	35135312014	Solid	1	
2	SB-20 (6"-2)	PS	4/23/2014 15:35	35135312014	Solid	1	
3							
4							
5							

LAB USE ONLY
 10266027009
 002

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice		Samples Intact
					Y	N	
1	EPL Pace		EPL Pace	5/14/14	Y	N	Y
2							
3							

Comments

Report mg/kg
 WHO 2005 using PRLIZ where ND

“Quarantine Soil-Sterilize Before Disposal”


Sample Condition Upon Receipt **Client Name:** Pace FL **Project #:** _____

Courier: Fed Ex UPS USPS Client

Commercial Pace Speedee Other: _____

Tracking Number: 541992587483

WO#: 10266027



10266027

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.0 **Cooler Temp Corrected (°C):** 1.0 **Biological Tissue Frozen?** Yes No N/A

Temp should be above freezing to 6°C **Correction Factor:** True **Date and Initials of Person Examining Contents:** EPL 5/6/14

				Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace 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	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes	<input type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Haz-Solts been noted W3

Project Manager Review: [Signature] **Date:** 5-7-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-7 (6"-2)			
Lab Sample ID	35135312014			
Filename	F140518B_06			
Injected By	BAL			
Total Amount Extracted	11.9 g	Matrix	Solid	
% Moisture	20.5	Dilution	NA	
Dry Weight Extracted	9.46 g	Collected	04/23/2014 12:12	
ICAL ID	F131125	Received	05/06/2014 09:30	
CCal Filename(s)	F140518A_16 & F140518B_17	Extracted	05/16/2014 15:00	
Method Blank ID	BLANK-40558	Analyzed	05/18/2014 21:08	

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0000150	----0.00000023		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	0.0002700	----0.00000023		2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	0.0000030	----0.00000022		2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	0.0001200	----0.00000022		1,2,3,7,8-PeCDD-13C	2.00	60
				1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	0.0000056	----0.00000055		1,2,3,6,7,8-HxCDF-13C	2.00	106
2,3,4,7,8-PeCDF	0.0000076	----0.00000038		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	0.0001000	----0.00000047		1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	0.0000060	----0.00000043		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	0.0000840	----0.00000043		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	----0.0000048	0.00000030	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	0.0000038	----0.00000036	J	OCDD-13C	4.00	52
2,3,4,6,7,8-HxCDF	0.0000031	----0.00000047	J			
1,2,3,7,8,9-HxCDF	----0.0000012	0.00000067	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000370	----0.00000045		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.0000053	----0.00000043		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	0.0000240	----0.00000066				
1,2,3,7,8,9-HxCDD	0.0000160	----0.00000063				
Total HxCDD	0.0002300	----0.00000057				
1,2,3,4,6,7,8-HpCDF	0.0000470	----0.00000043		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	----0.0000013	0.00000069	IJ	Equivalence: 0.000024 mg/Kg		
Total HpCDF	0.0000970	----0.00000056		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0004000	----0.00000047				
Total HpCDD	0.0007400	----0.00000047				
OCDF	0.0000450	----0.00000099				
OCDD	0.0022000	----0.00000077				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-20 (6"-2)			
Lab Sample ID	35135312040			
Filename	F140518B_07			
Injected By	BAL			
Total Amount Extracted	11.4 g	Matrix	Solid	
% Moisture	12.9	Dilution	NA	
Dry Weight Extracted	9.93 g	Collected	04/23/2014 15:35	
ICAL ID	F131125	Received	05/06/2014 09:30	
CCal Filename(s)	F140518A_16 & F140518B_17	Extracted	05/16/2014 15:00	
Method Blank ID	BLANK-40558	Analyzed	05/18/2014 21:53	

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0000180	----0.00000027		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	0.0003100	----0.00000027		2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	0.0000017	----0.00000017		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	0.0000750	----0.00000017		1,2,3,7,8-PeCDD-13C	2.00	67
				1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	0.0000060	----0.00000033		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	0.0000085	----0.00000035		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	0.0001000	----0.00000034		1,2,3,7,8,9-HxCDF-13C	2.00	79
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	0.0000040	----0.00000038	J	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	0.0000390	----0.00000038		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	0.0000051	----0.00000027		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	0.0000040	----0.00000021	J	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	0.0000040	----0.00000018	J			
1,2,3,7,8,9-HxCDF	0.0000013	----0.00000027	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000460	----0.00000023		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.0000033	----0.00000052	J	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	0.0000130	----0.00000049				
1,2,3,7,8,9-HxCDD	0.0000088	----0.00000040				
Total HxCDD	0.0001200	----0.00000047				
1,2,3,4,6,7,8-HpCDF	0.0000260	----0.00000032		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	----0.0000010	0.00000048	IJ	Equivalence: 0.000017 mg/Kg		
Total HpCDF	0.0000510	----0.00000040		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0002600	----0.00000043				
Total HpCDD	0.0004700	----0.00000043				
OCDF	0.0000290	----0.00000046				
OCDD	0.0017000	----0.00000042				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-40558	Matrix	Solid
Filename	F140519A_06	Dilution	NA
Total Amount Extracted	10.8 g	Extracted	05/16/2014 15:00
ICAL ID	F131125	Analyzed	05/19/2014 11:34
CCal Filename(s)	F140519A_02 & F140519A_16	Injected By	SMT

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	--0.000000100		2,3,7,8-TCDF-13C	2.00	84
Total TCDF	ND	--0.000000100		2,3,7,8-TCDD-13C	2.00	95
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	--0.000000170		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	--0.000000170		1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	--0.000000150		1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	ND	--0.000000170		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	--0.000000160		1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	--0.000000190		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	--0.000000190		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	--0.000000110		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	--0.000000120		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	--0.000000081				
1,2,3,7,8,9-HxCDF	ND	--0.000000110		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	--0.000000100		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	--0.000000160		2,3,7,8-TCDD-37Cl4	0.20	96
1,2,3,6,7,8-HxCDD	ND	--0.000000180				
1,2,3,7,8,9-HxCDD	ND	--0.000000160				
Total HxCDD	ND	--0.000000170				
1,2,3,4,6,7,8-HpCDF	ND	--0.000000095		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	--0.000000120		Equivalence: 0.00000026 mg/Kg		
Total HpCDF	ND	--0.000000110		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	ND	--0.000000120				
Total HpCDD	ND	--0.000000120				
OCDF	ND	--0.000000170				
OCDD	ND	--0.000000210				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-40559	Matrix	Solid
Filename	F140519A_13	Dilution	NA
Total Amount Extracted	10.7 g	Extracted	05/16/2014 15:00
ICAL ID	F131125	Analyzed	05/19/2014 16:49
CCal Filename(s)	F140519A_02 & F140519A_16	Injected By	SMT
Method Blank ID	BLANK-40558		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	100	2,3,7,8-TCDF-13C	2.0	66
Total TCDF				2,3,7,8-TCDD-13C	2.0	76
				1,2,3,7,8-PeCDF-13C	2.0	65
2,3,7,8-TCDD	0.20	0.16	82	2,3,4,7,8-PeCDF-13C	2.0	62
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	69
				1,2,3,4,7,8-HxCDF-13C	2.0	69
1,2,3,7,8-PeCDF	1.0	1.0	101	1,2,3,6,7,8-HxCDF-13C	2.0	79
2,3,4,7,8-PeCDF	1.0	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.0	74
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	67
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	0.83	83	1,2,3,6,7,8-HxCDD-13C	2.0	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	64
				1,2,3,4,7,8,9-HpCDF-13C	2.0	65
1,2,3,4,7,8-HxCDF	1.0	1.0	104	1,2,3,4,6,7,8-HpCDD-13C	2.0	73
1,2,3,6,7,8-HxCDF	1.0	0.94	94	OCDD-13C	4.0	39 R
2,3,4,6,7,8-HxCDF	1.0	0.96	96			
1,2,3,7,8,9-HxCDF	1.0	1.0	100	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	101	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	1.0	1.1	113			
1,2,3,7,8,9-HxCDD	1.0	0.97	97			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.0	0.86	86			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.90	90			
Total HpCDD						
OCDF	2.0	2.1	105			
OCDD	2.0	2.0	99			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-40563	Matrix	Solid
Filename	F140519A_14	Dilution	NA
Total Amount Extracted	10.0 g	Extracted	05/16/2014 15:00
ICAL ID	F131125	Analyzed	05/19/2014 17:34
CCal Filename(s)	F140519A_02 & F140519A_16	Injected By	SMT
Method Blank ID	BLANK-40558		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	106	2,3,7,8-TCDF-13C	2.0	70
Total TCDF				2,3,7,8-TCDD-13C	2.0	80
				1,2,3,7,8-PeCDF-13C	2.0	67
2,3,7,8-TCDD	0.20	0.17	86	2,3,4,7,8-PeCDF-13C	2.0	62
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	69
				1,2,3,4,7,8-HxCDF-13C	2.0	74
1,2,3,7,8-PeCDF	1.0	1.1	106	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	1.1	105	2,3,4,6,7,8-HxCDF-13C	2.0	74
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	69
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	0.89	89	1,2,3,6,7,8-HxCDD-13C	2.0	72
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	71
				1,2,3,4,7,8,9-HpCDF-13C	2.0	73
1,2,3,4,7,8-HxCDF	1.0	1.1	107	1,2,3,4,6,7,8-HpCDD-13C	2.0	75
1,2,3,6,7,8-HxCDF	1.0	1.0	101	OCDD-13C	4.0	41
2,3,4,6,7,8-HxCDF	1.0	0.97	97			
1,2,3,7,8,9-HxCDF	1.0	1.1	105	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	110	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.2	120			
1,2,3,7,8,9-HxCDD	1.0	0.95	95			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	101			
1,2,3,4,7,8,9-HpCDF	1.0	0.94	94			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.96	96			
Total HpCDD						
OCDF	2.0	2.5	127			
OCDD	2.0	2.1	106			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client PASI Florida

Spike 1 ID LCS-40559
Spike 1 Filename F140519A_13

Spike 2 ID LCSD-40563
Spike 2 Filename F140519A_14

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	100	106	5.8
2,3,7,8-TCDD	82	86	4.8
1,2,3,7,8-PeCDF	101	106	4.8
2,3,4,7,8-PeCDF	98	105	6.9
1,2,3,7,8-PeCDD	83	89	7.0
1,2,3,4,7,8-HxCDF	104	107	2.8
1,2,3,6,7,8-HxCDF	94	101	7.2
2,3,4,6,7,8-HxCDF	96	97	1.0
1,2,3,7,8,9-HxCDF	100	105	4.9
1,2,3,4,7,8-HxCDD	101	110	8.5
1,2,3,6,7,8-HxCDD	113	120	6.0
1,2,3,7,8,9-HxCDD	97	95	2.1
1,2,3,4,6,7,8-HpCDF	99	101	2.0
1,2,3,4,7,8,9-HpCDF	86	94	8.9
1,2,3,4,6,7,8-HpCDD	90	96	6.5
OCDF	105	127	19.0
OCDD	99	106	6.8

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Report Prepared for:

Christina Raschke
PASI Florida
8 East Tower Circle
Ormond Beach FL 32174

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

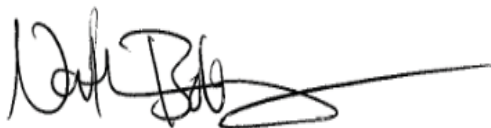
Pace Project #: 10267424
Sample Receipt Date: 05/16/2014
Client Project #: 35135312
Client Sub PO #: N/A
State Cert #: E87605

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

This report has been reviewed by:



May 27, 2014

Nate Boberg,

(fax)

Report Prepared Date:

May 27, 2014



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on five samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 35-146%. Except for three values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners; the affected values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. The Total PeCDF concentration reported for sample SB-31 (6"-2) included one or more isomers above the calibration range; the value was flagged "E" and should be regarded as an estimate.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that PCDDs and PCDFs were not detected.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were generally recovered at 79-129% with relative percent differences (RPDs) of 10.5-33.9%. The background-subtracted recoveries obtained for HpCDD and OCDD in the matrix spike and/or matrix spike duplicate were above the 70-130% target range and may indicate high biases for these congeners. Also, six RPD values were above the 20% target upper limit; these results may indicate elevated variability for the affected congeners in these determinations.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

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Appendix A

Sample Management

Sample Condition Upon Receipt

Client Name: Pace - A

Project #: WO# : 10267424



Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____

Tracking Number: 5419 9259 0836

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.4 **Cooler Temp Corrected (°C):** 4.6 **Biological Tissue Frozen?** Yes No N/A
Temp should be above freezing to 6°C **Correction Factor:** + .2 **Date and Initials of Person Examining Contents:** 5/16/14 AL

Question	Yes	No	N/A	Comments
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample #
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Initial when completed: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ **Date/Time:** _____
Comments/Resolution: _____

Project Manager Review:

[Signature]

Date: 5-16-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-6 (6"-2)		
Lab Sample ID	35135312012		
Filename	U140522A_08		
Injected By	SMT		
Total Amount Extracted	12.8 g	Matrix	Solid
% Moisture	12.6	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	04/23/2014 11:55
ICAL ID	U140322	Received	05/16/2014 09:10
CCal Filename(s)	U140522A_01 & U140522A_17	Extracted	05/20/2014 19:20
Method Blank ID	BLANK-40605	Analyzed	05/22/2014 18:47

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0000051	----0.00000086		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.0001300	----0.00000086		2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----0.00000100		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.0000100	----0.00000100		1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	----0.00000200	0.00000140	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	0.0000120	----0.00000068		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	0.0002500	----0.00000100		1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	0.0000019	----0.00000019	J	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	0.0000073	----0.00000019		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	0.0000071	----0.00000140		1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	0.0000043	----0.00000078	J	OCDD-13C	4.00	35 R
2,3,4,6,7,8-HxCDF	0.0000082	----0.00000120				
1,2,3,7,8,9-HxCDF	ND	----0.00000130		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000890	----0.00000120		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	----0.00000100	0.00000100	IJ	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	0.0000059	----0.00000140				
1,2,3,7,8,9-HxCDD	0.0000038	----0.00000093	J			
Total HxCDD	0.0000570	----0.00000110				
1,2,3,4,6,7,8-HpCDF	0.0000170	----0.00000089		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000190		Equivalence: 0.000011 mg/Kg		
Total HpCDF	0.0000170	----0.00000140		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0000940	----0.00000110				
Total HpCDD	0.0001800	----0.00000110				
OCDF	0.0000270	----0.00000240				
OCDD	0.0005500	----0.00000290				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
R = Recovery outside target range
I = Interference present

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-10 (6"-2)			
Lab Sample ID	35135312020			
Filename	U140522A_09			
Injected By	SMT			
Total Amount Extracted	1.00 g	Matrix	Solid	
% Moisture	12.5	Dilution	NA	
Dry Weight Extracted	0.875 g	Collected	04/23/2014 13:25	
ICAL ID	U140322	Received	05/16/2014 09:10	
CCal Filename(s)	U140522A_01 & U140522A_17	Extracted	05/20/2014 19:20	
Method Blank ID	BLANK-40605	Analyzed	05/22/2014 19:32	

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.000036	---- 0.0000053		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	0.000370	---- 0.0000053		2,3,7,8-TCDD-13C	2.00	98
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	---- 0.0000081		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	0.000055	---- 0.0000081		1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	0.000011	---- 0.0000072	J	1,2,3,6,7,8-HxCDF-13C	2.00	114
2,3,4,7,8-PeCDF	0.000019	---- 0.0000064	J	2,3,4,6,7,8-HxCDF-13C	2.00	108
Total PeCDF	0.000077	---- 0.0000068		1,2,3,7,8,9-HxCDF-13C	2.00	92
				1,2,3,4,7,8-HxCDD-13C	2.00	100
1,2,3,7,8-PeCDD	ND	---- 0.0000049		1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	0.000011	---- 0.0000049	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	84
				1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	---0.0000150	0.0000054	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	---0.0000078	0.0000048	IJ	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	---0.0000059	0.0000046	IJ			
1,2,3,7,8,9-HxCDF	ND	---- 0.0000049		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.000052	---- 0.0000049	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---- 0.0000094		2,3,7,8-TCDD-37Cl4	0.20	98
1,2,3,6,7,8-HxCDD	---0.0000140	0.0000098	IJ			
1,2,3,7,8,9-HxCDD	0.000014	---- 0.0000079	J			
Total HxCDD	0.000099	---- 0.0000090				
1,2,3,4,6,7,8-HpCDF	---0.0000390	0.0000055	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---- 0.0000130		Equivalence: 0.000028 mg/Kg		
Total HpCDF	0.000043	---- 0.0000090	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.000470	---- 0.0000120				
Total HpCDD	0.000870	---- 0.0000120				
OCDF	---0.0000340	0.0000230	IJ			
OCDD	0.002600	---- 0.0000270				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value
I = Interference present

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-12 (6"-2)			
Lab Sample ID	35135312024			
Filename	U140522A_10			
Injected By	SMT			
Total Amount Extracted	13.5 g	Matrix	Solid	
% Moisture	10.9	Dilution	NA	
Dry Weight Extracted	12.0 g	Collected	04/23/2014 11:02	
ICAL ID	U140322	Received	05/16/2014 09:10	
CCal Filename(s)	U140522A_01 & U140522A_17	Extracted	05/20/2014 19:20	
Method Blank ID	BLANK-40605	Analyzed	05/22/2014 20:17	

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0000110	----0.00000110		2,3,7,8-TCDF-13C	2.00	101
Total TCDF	0.0002800	----0.00000110		2,3,7,8-TCDD-13C	2.00	103
				1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	--0.000000740	0.00000018	IJ	2,3,4,7,8-PeCDF-13C	2.00	102
Total TCDD	0.0000280	----0.00000018		1,2,3,7,8-PeCDD-13C	2.00	106
				1,2,3,4,7,8-HxCDF-13C	2.00	114
1,2,3,7,8-PeCDF	0.0000053	----0.00000089		1,2,3,6,7,8-HxCDF-13C	2.00	113
2,3,4,7,8-PeCDF	0.0000210	----0.00000110		2,3,4,6,7,8-HxCDF-13C	2.00	116
Total PeCDF	0.0003100	----0.00000098		1,2,3,7,8,9-HxCDF-13C	2.00	104
				1,2,3,4,7,8-HxCDD-13C	2.00	101
1,2,3,7,8-PeCDD	--0.000001900	0.00000041	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	0.0000150	----0.00000041		1,2,3,4,6,7,8-HpCDF-13C	2.00	86
				1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	0.0000560	----0.00000053		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	0.0000051	----0.00000037		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	0.0000120	----0.00000051				
1,2,3,7,8,9-HxCDF	0.0000021	----0.00000066	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0001600	----0.00000052		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	--0.000001200	0.00000039	IJ	2,3,7,8-TCDD-37Cl4	0.20	97
1,2,3,6,7,8-HxCDD	0.0000054	----0.00000048				
1,2,3,7,8,9-HxCDD	--0.000002200	0.00000047	IJ			
Total HxCDD	0.0000520	----0.00000045				
1,2,3,4,6,7,8-HpCDF	0.0000590	----0.00000043		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.0000030	----0.00000060	J	Equivalence: 0.000020 mg/Kg		
Total HpCDF	0.0000620	----0.00000052		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0000910	----0.00000074				
Total HpCDD	0.0001600	----0.00000074				
OCDF	0.0002100	----0.00000130				
OCDD	0.0008000	----0.00000210				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-18 (6"-2)		
Lab Sample ID	35135312036		
Filename	U140522A_11		
Injected By	SMT		
Total Amount Extracted	13.8 g	Matrix	Solid
% Moisture	9.4	Dilution	NA
Dry Weight Extracted	12.5 g	Collected	04/23/2014 13:45
ICAL ID	U140322	Received	05/16/2014 09:10
CCal Filename(s)	U140522A_01 & U140522A_17	Extracted	05/20/2014 19:20
Method Blank ID	BLANK-40605	Analyzed	05/22/2014 21:01

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0004100	0.000002100	0.00000085	I 2,3,7,8-TCDF-13C	2.00	85
Total TCDF	0.0004100	0.00000085		2,3,7,8-TCDD-13C	2.00	94
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	0.0000026	0.00000040		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.0000900	0.00000040		1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	101
1,2,3,7,8-PeCDF	0.0000110	0.00000048		1,2,3,6,7,8-HxCDF-13C	2.00	105
2,3,4,7,8-PeCDF	0.0000140	0.00000044		2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	0.0001900	0.00000046		1,2,3,7,8,9-HxCDF-13C	2.00	88
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	0.0000089	0.00000057		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	0.0000820	0.00000057		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	0.0000120	0.00000086		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	0.0000074	0.00000075		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	0.0000086	0.00000079				
1,2,3,7,8,9-HxCDF	0.0000250	0.0000100		IJ 1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000780	0.00000086		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.0000091	0.00000140		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	0.0000650	0.00000170				
1,2,3,7,8,9-HxCDD	0.0000350	0.00000120				
Total HxCDD	0.0004100	0.00000140				
1,2,3,4,6,7,8-HpCDF	0.0000580	0.00000170		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.0000048	0.00000091		Equivalence: 0.000044 mg/Kg		
Total HpCDF	0.0000630	0.00000130		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0009300	0.00000300				
Total HpCDD	0.0016000	0.00000300				
OCDF	0.0000890	0.00000180				
OCDD	0.0052000	0.00000340				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	SB-31 (6"-2)		
Lab Sample ID	35135312062		
Filename	U140522A_12		
Injected By	SMT		
Total Amount Extracted	13.7 g	Matrix	Solid
% Moisture	12.0	Dilution	NA
Dry Weight Extracted	12.1 g	Collected	04/23/2014 17:12
ICAL ID	U140322	Received	05/16/2014 09:10
CCal Filename(s)	U140522A_01 & U140522A_17	Extracted	05/20/2014 19:20
Method Blank ID	BLANK-40605	Analyzed	05/22/2014 21:46

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.0000260	----0.00000042		2,3,7,8-TCDF-13C	2.00	98
Total TCDF	0.0007100	----0.00000042		2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	----0.00000200	0.00000031	I	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.0000440	----0.00000031		1,2,3,7,8-PeCDD-13C	2.00	77
				1,2,3,4,7,8-HxCDF-13C	2.00	144 R
1,2,3,7,8-PeCDF	0.0000100	----0.00000074		1,2,3,6,7,8-HxCDF-13C	2.00	146 R
2,3,4,7,8-PeCDF	0.0003300	----0.00000070		2,3,4,6,7,8-HxCDF-13C	2.00	124
Total PeCDF	0.0037000	----0.00000072	E	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	0.0000054	----0.00000011		1,2,3,6,7,8-HxCDD-13C	2.00	96
Total PeCDD	0.0000760	----0.00000011		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
				1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	0.0001000	----0.00000079		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	0.0000330	----0.00000110		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	0.0001500	----0.00000110				
1,2,3,7,8,9-HxCDF	0.0000190	----0.00000240		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0023000	----0.00000130		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.0000036	----0.00000038	J	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	0.0000095	----0.00000054				
1,2,3,7,8,9-HxCDD	0.0000063	----0.00000053				
Total HxCDD	0.0001700	----0.00000048				
1,2,3,4,6,7,8-HpCDF	0.0000670	----0.00000067		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.0000054	----0.00000092		Equivalence: 0.00014 mg/Kg		
Total HpCDF	0.0000730	----0.00000080		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.0000470	----0.00000110				
Total HpCDD	0.0000950	----0.00000110				
OCDF	0.0000250	----0.00000150				
OCDD	0.0002300	----0.00000140				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
R = Recovery outside target range
E = Exceeds calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-40605	Matrix	Solid
Filename	F140522B_08	Dilution	NA
Total Amount Extracted	21.0 g	Extracted	05/20/2014 19:20
ICAL ID	F131125	Analyzed	05/22/2014 15:29
CCal Filename(s)	F140522B_01 & F140522B_16	Injected By	SMT

Native Isomers	Conc mg/Kg	EMPC mg/Kg	RL mg/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----0.00000014		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	----0.00000014		2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	----0.00000016		2,3,4,7,8-PeCDF-13C	2.00	62
Total TCDD	ND	----0.00000016		1,2,3,7,8-PeCDD-13C	2.00	75
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	----0.00000019		1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	----0.00000020		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	----0.00000019		1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	----0.00000024		1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	ND	----0.00000024		1,2,3,4,6,7,8-HpCDF-13C	2.00	95
				1,2,3,4,7,8,9-HpCDF-13C	2.00	93
1,2,3,4,7,8-HxCDF	ND	----0.00000019		1,2,3,4,6,7,8-HpCDD-13C	2.00	104
1,2,3,6,7,8-HxCDF	ND	----0.00000019		OCDD-13C	4.00	88
2,3,4,6,7,8-HxCDF	ND	----0.00000017				
1,2,3,7,8,9-HxCDF	ND	----0.00000023		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----0.00000020		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000016		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	----0.00000017				
1,2,3,7,8,9-HxCDD	ND	----0.00000018				
Total HxCDD	ND	----0.00000017				
1,2,3,4,6,7,8-HpCDF	ND	----0.00000011		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000015		Equivalence: 0.00000030 mg/Kg		
Total HpCDF	ND	----0.00000013		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	ND	----0.00000016				
Total HpCDD	ND	----0.00000016				
OCDF	ND	----0.00000032				
OCDD	ND	----0.00000020				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-40606	Matrix	Solid
Filename	F140522B_13	Dilution	NA
Total Amount Extracted	20.4 g	Extracted	05/20/2014 19:20
ICAL ID	F131125	Analyzed	05/22/2014 19:15
CCal Filename(s)	F140522B_01 & F140522B_16	Injected By	SMT
Method Blank ID	BLANK-40605		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	94	2,3,7,8-TCDF-13C	2.0	80
Total TCDF				2,3,7,8-TCDD-13C	2.0	97
				1,2,3,7,8-PeCDF-13C	2.0	77
2,3,7,8-TCDD	0.20	0.16	81	2,3,4,7,8-PeCDF-13C	2.0	75
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	93
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.0	101	1,2,3,6,7,8-HxCDF-13C	2.0	95
2,3,4,7,8-PeCDF	1.0	0.94	94	2,3,4,6,7,8-HxCDF-13C	2.0	89
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	82
				1,2,3,4,7,8-HxCDD-13C	2.0	81
1,2,3,7,8-PeCDD	1.0	0.79	79	1,2,3,6,7,8-HxCDD-13C	2.0	93
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	107
				1,2,3,4,7,8,9-HpCDF-13C	2.0	104
1,2,3,4,7,8-HxCDF	1.0	1.0	103	1,2,3,4,6,7,8-HpCDD-13C	2.0	118
1,2,3,6,7,8-HxCDF	1.0	0.92	92	OCDD-13C	4.0	97
2,3,4,6,7,8-HxCDF	1.0	0.91	91			
1,2,3,7,8,9-HxCDF	1.0	0.97	97	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	100
1,2,3,6,7,8-HxCDD	1.0	1.1	109			
1,2,3,7,8,9-HxCDD	1.0	1.0	101			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.96	96			
1,2,3,4,7,8,9-HpCDF	1.0	0.84	84			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.91	91			
Total HpCDD						
OCDF	2.0	1.7	83			
OCDD	2.0	2.0	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Spiked Sample Report

Client - PASI Florida

Client's Sample ID	SB-6 (6"-2)-MS	Matrix	Solid
Lab Sample ID	35135312012-MS	Dilution	NA
Filename	U140522A_15	Extracted	05/20/2014 19:20
Total Amount Extracted	12.2 g	Analyzed	05/23/2014 00:00
ICAL ID	U140322	Injected By	SMT
CCal Filename(s)	U140522A_01 & U140522A_17		
Method Blank ID	BLANK-40605		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.28	138	2,3,7,8-TCDF-13C	2.00	71
				2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	0.20	0.20	102	2,3,4,7,8-PeCDF-13C	2.00	61
				1,2,3,7,8-PeCDD-13C	2.00	61
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1.00	1.09	109	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	1.00	1.20	120	2,3,4,6,7,8-HxCDF-13C	2.00	90
				1,2,3,7,8,9-HxCDF-13C	2.00	75
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	1.00	1.03	103	1,2,3,6,7,8-HxCDD-13C	2.00	78
				1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	1.27	127	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	1.00	1.11	111	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	1.00	1.12	112			
1,2,3,7,8,9-HxCDF	1.00	1.07	107	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.17	117	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	1.00	1.29	129			
1,2,3,7,8,9-HxCDD	1.00	1.19	119			
1,2,3,4,6,7,8-HpCDF	1.00	1.47	147			
1,2,3,4,7,8,9-HpCDF	1.00	0.97	97			
1,2,3,4,6,7,8-HpCDD	1.00	2.78	278			
OCDF	2.00	2.76	138			
OCDD	2.00	12.85	642			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)
Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Spiked Sample Report

Client - PASI Florida

Client's Sample ID	SB-6 (6"-2)-MSD	Matrix	Solid
Lab Sample ID	35135312012-MSD	Dilution	NA
Filename	U140522A_16	Extracted	05/20/2014 19:20
Total Amount Extracted	12.8 g	Analyzed	05/23/2014 00:45
ICAL ID	U140322	Injected By	SMT
CCal Filename(s)	U140522A_01 & U140522A_17		
Method Blank ID	BLANK-40605		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	113	2,3,7,8-TCDF-13C	2.00	87
				2,3,7,8-TCDD-13C	2.00	99
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	0.20	0.17	86	2,3,4,7,8-PeCDF-13C	2.00	73
				1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	108
1,2,3,7,8-PeCDF	1.00	0.88	88	1,2,3,6,7,8-HxCDF-13C	2.00	115
2,3,4,7,8-PeCDF	1.00	1.05	105	2,3,4,6,7,8-HxCDF-13C	2.00	107
				1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	1.00	0.81	81	1,2,3,6,7,8-HxCDD-13C	2.00	91
				1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	1.00	1.05	105	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	1.00	0.93	93	OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	1.00	0.93	93			
1,2,3,7,8,9-HxCDF	1.00	0.92	92	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.99	99	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	1.00	1.09	109			
1,2,3,7,8,9-HxCDD	1.00	0.98	98			
1,2,3,4,6,7,8-HpCDF	1.00	1.15	115			
1,2,3,4,7,8,9-HpCDF	1.00	0.88	88			
1,2,3,4,6,7,8-HpCDD	1.00	1.99	199			
OCDF	2.00	2.21	111			
OCDD	2.00	9.12	456			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)
Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Spike Sample Results

Client - PASI Florida

Client Sample ID	SB-6 (6"-2)	Sample Filename	U140522A_08	<u>Dry Weights</u>	
Lab Sample ID	35135312012	MS Filename	U140522A_15	Sample Amount	11.2 g
MS ID	35135312012-MS	MSD Filename	U140522A_16	MS Amount	10.7 g
MSD ID	35135312012-MSD			MSD Amount	11.2 g

Analyte	Sample Conc. mg/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted		
						MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.28	0.23	19.9	111	85	27.0
2,3,7,8-TCDD	0.000	0.20	0.20	0.17	17.0	102	86	17.0
1,2,3,7,8-PeCDF	0.000	1.00	1.09	0.88	21.2	107	86	21.8
2,3,4,7,8-PeCDF	0.000	1.00	1.20	1.05	13.6	107	91	16.1
1,2,3,7,8-PeCDD	0.000	1.00	1.03	0.81	24.0	101	79	24.6
1,2,3,4,7,8-HxCDF	0.000	1.00	1.27	1.05	19.0	119	97	20.7
1,2,3,6,7,8-HxCDF	0.000	1.00	1.11	0.93	17.7	107	88	18.7
2,3,4,6,7,8-HxCDF	0.000	1.00	1.12	0.93	18.4	103	84	20.7
1,2,3,7,8,9-HxCDF	0.000	1.00	1.07	0.92	15.3	107	92	15.3
1,2,3,4,7,8-HxCDD	0.000	1.00	1.17	0.99	16.9	116	98	17.2
1,2,3,6,7,8-HxCDD	0.000	1.00	1.29	1.09	17.0	123	102	18.3
1,2,3,7,8,9-HxCDD	0.000	1.00	1.19	0.98	19.2	115	94	20.1
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.47	1.15	24.5	129	96	29.5
1,2,3,4,7,8,9-HpCDF	0.000	1.00	0.97	0.88	10.5	97	88	10.5
1,2,3,4,6,7,8-HpCDD	0.000	1.00	2.78	1.99	32.9	178	95	61.2
OCDF	0.000	2.00	2.76	2.21	21.9	124	96	25.4
OCDD	0.001	2.00	12.85	9.12	33.9	351	150	80.0

Definitions

MS = Matrix Spike	CDD = Chlorinated dibenzo-p-dioxin
MSD = Matrix Spike Duplicate	CDF = Chlorinated dibenzo-p-furan
Qm = Quantity Measured	T = Tetra
Qs = Quantity Spiked	Pe = Penta
% Rec. = Percent Recovery	Hx = Hexa
RPD = Relative Percent Difference	Hp = Hepta
NA = Not Applicable	O = Octa
NC = Not Calculated	

Appendix E

Monitoring Well Construction Logs

WELL CONSTRUCTION DATA

WELL/BORING NO: MW-1

PERMIT NO: _____

DATE: 4.24.2014 PROJECT NAME: DOUGLAS PARK

PROJECT NO: _____

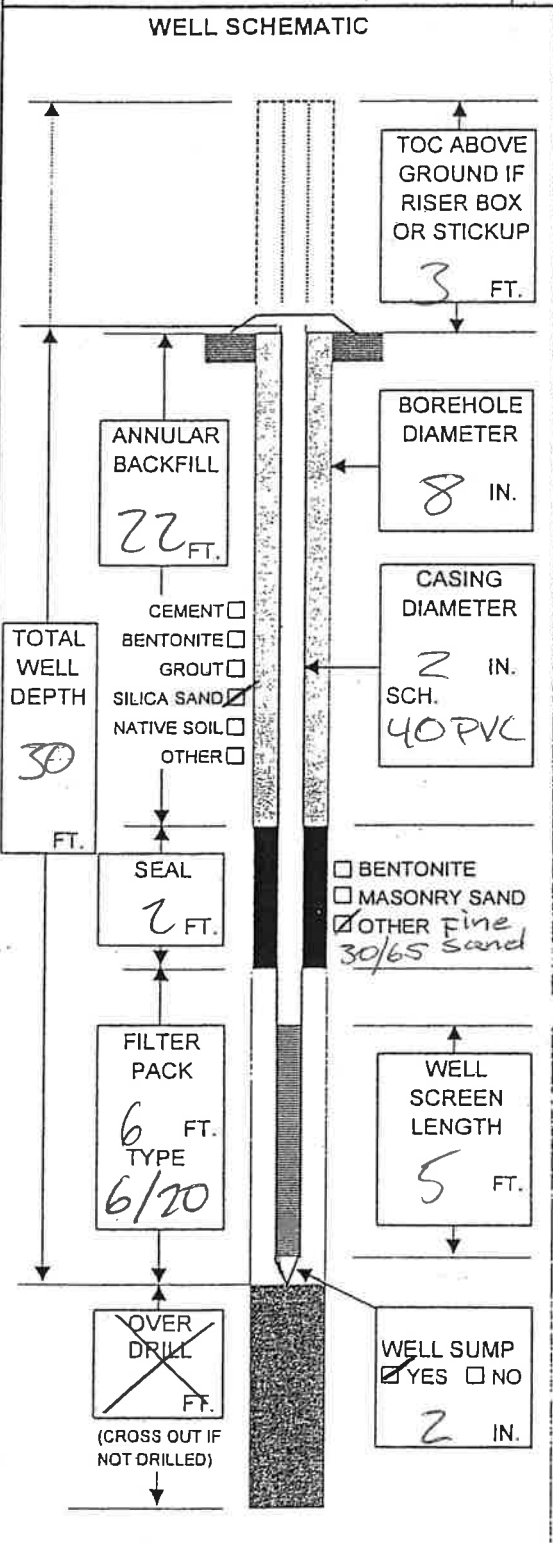


SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____

DRILLING CO: Enviro-Drill

DRILL CREW: John + Alex

WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER _____



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER _____
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER _____
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER pre-packed

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER Rotary Auger

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO.
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED SPREAD OTHER placed back in borehole

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER 55 GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR

EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL 17.1 FT. BTOC BLS

DATE: 4/25 12.2 FT BELOW TOC

DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)
Total Depth: 33.2 ft

PREPARED BY: Favel Tersalich

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

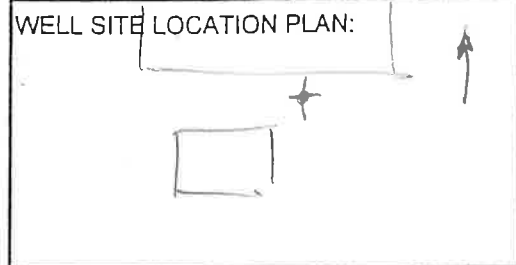
SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: MW-1	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Terezhich/URS	type: dia:
DATE(S): 04-24-14	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER: 10'	type: from: to:
TOTAL BORING DEPTH:	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				0-3" Grass & Top soil. 1045 3-6" top soil
	6-12"	---		---	Soil (80%) & Limerock (20%)
	12-18"	---		---	Soil (60%) & Limerock (40%)
	18-24"	---		---	Soil (50%) & Limerock (50%)
	2-4'	---		---	Limerock, sand, asphalt.
	4-6'	---		---	Limerock, sand, Glass fragments, other debris
	6-8'	---		---	Fill LR/sand
	8-14'	A		---	
	14-20'	---		---	↓
	20-23'	---		---	23' change change of lithology - auger resistance
	23-25'	---		---	↓
	25-30'	---		---	↓

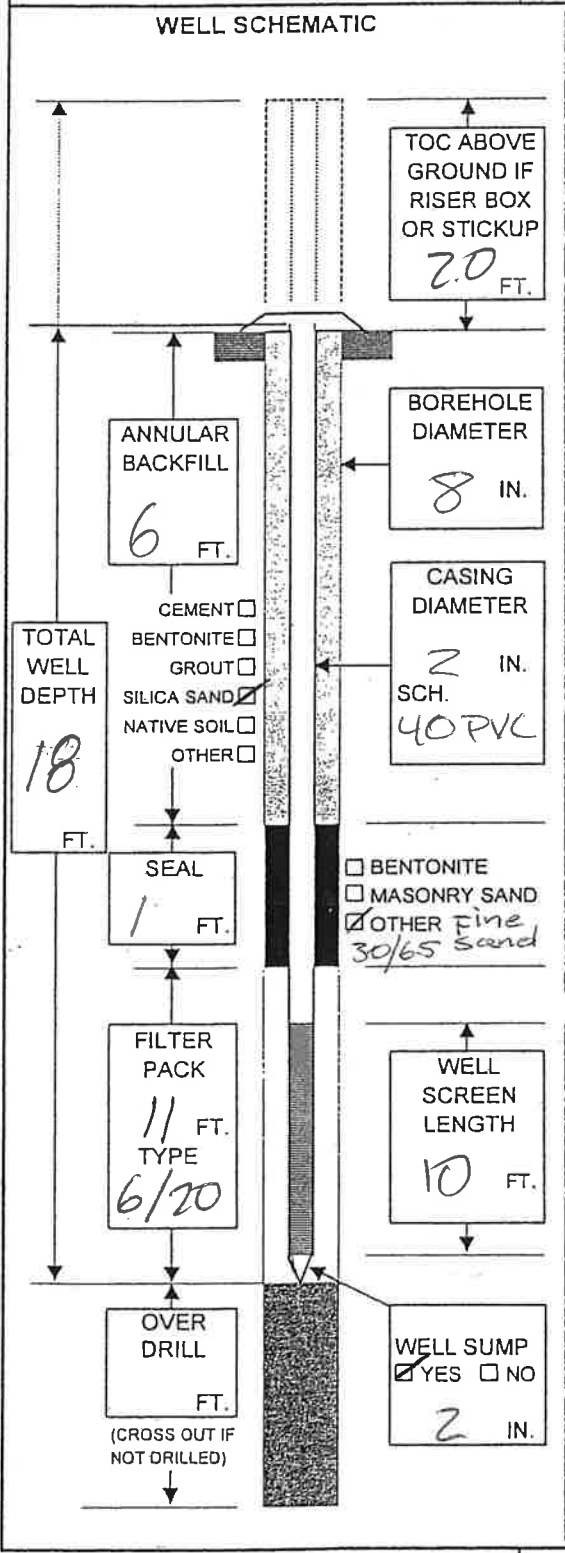
WELL CONSTRUCTION DATA

WELL/BORING NO: MW-2
 PERMIT NO:

DATE: 4-23-2014 PROJECT NAME: DOUGLAS PARK PROJECT NO:



SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____
 DRILLING CO: Enviro-Drill
 DRILL CREW: John + Alex
 WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER _____



INSTALLATION DATA

DECON: STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER _____
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER _____
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER pre-packed

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER Rotary Auger

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO.
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED SPREAD OTHER placed in borehole

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER 55 GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR

EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED SPREAD TREATED POTW OTHER _____

NUMBER OF DRUMS: 1

WATER LEVEL: INITIAL 10.61 FT BTOC BLS

DATE: 4/24 10.25 FT BELOW TOC (BLS)

DATE: 4/25 12.48 FT BELOW TOC (BLS)

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

PREPARED BY: Fred ...

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: MW-2	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Torsalich / URS	type: dia:
DATE(S): 04-23-14	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER: 10.61	type: from: to:
TOTAL BORING DEPTH:	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				0-3" Asphalt 3-6" Limerock
	6-12"	---		---	Limerock with debris
	12-18"	---		---	" " "
	18-24"	---		---	Asphalt & limerock
	2-4'	---		---	C&D, limerock, & debris
	4-6'	---		---	
	6-8'	---		---	
	8-10'	---		---	
	10-12'	---	Σ	---	Limerock & debris
	12-14'	---		---	
	14-16'	---		---	
	16-18'	---		---	
	18-20'	---		---	

WELL CONSTRUCTION DATA

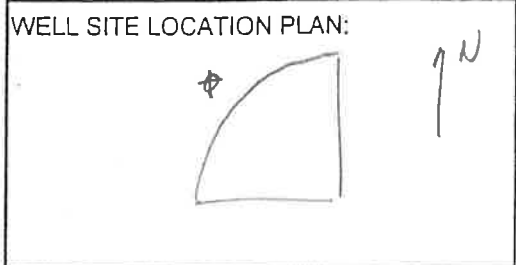
WELL/BORING NO: MW-3

PERMIT NO:

DATE: 4-24-2014

PROJECT NAME: DOUGLAS PARK

PROJECT NO:



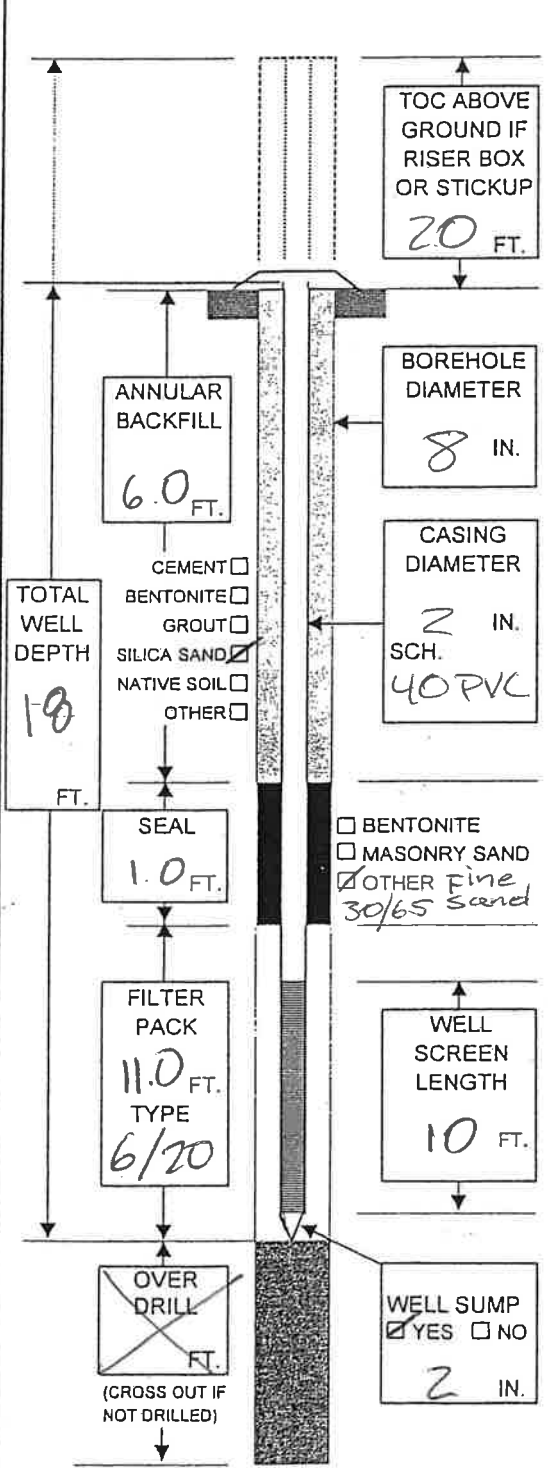
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: Enviro-Drill

DRILL CREW: John + Alex

WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER

PIT CASING: YES NO DESCRIBE

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER IN
 SLOT: 0.010 0.020 OTHER pre-packed IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER Rotary Auger

BIT SIZE: 2" 4" 6" 8" 12" OTHER IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO.
 OTHER

PAD: 2'X2' 4'X4' OTHER

CUTTINGS: DRUMMED SPREAD OTHER placed in borehole NUMBER OF DRUMS

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER

TIME: 30 MIN 60 MIN OTHER Hours
 AMOUNT: 5 GAL 10 GAL OTHER 55 GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR

EVIDENT ODOR: YES NO TYPE

DEVELOPMENT WATER: DRUMMED SPREAD TREATED POTW OTHER NUMBER OF DRUMS 1

WATER LEVEL: INITIAL 10.65 FT BTOC BLS

DATE: 4/24/14 10.65 FT BELOW TOC ^{bls}

DATE: 4/25/14 11.97 FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

PREPARED BY: Paul Bersoldich

URS CORPORATION
SOIL BORING / MONITORING WELL CONSTRUCTION LOG

SITE: DOUGLAS PARK	COMPLETED WELL DEPTH: bls:
MONITOR WELL / BORING ID: MW-3	SURFACE CASING: from: to:
CONSULTING FIRM: URS Corporation	type: dia:
DRILLING FIRM: Enviro-Drill	WELL CASING: from: to:
LOGGED BY: Pavel Torsalovich / URS	type: dia:
DATE(S): 04-23-14	SCREEN: (ft bls) from: to:
DRILLING METHOD: HA	type: dia:
BOREHOLE DIAMETER: 3.4"	ANNULAR FILL
DEPTH TO WATER:	type: from: to:
TOTAL BORING DEPTH: 10.63 DTW	type: from: to:

POINT ID/ SAMP. ID	DEPTH (ft bls)	BLOW COUNTS	METHOD	USCS	MATERIAL DESCRIPTION
	0-6"				0-5" Gravel 3-6" Top soil
	6-12"	---		---	Debris; molten glass, metal
	12-18"	---		---	" " "
	18-24"	---		---	Limerock (60%) with debris (40%)
	2'-3	---		---	Limerock fill (95%) with glass frags (5%)
	3-5	---		---	" " "
	5-6	---		---	" " "
	6-8	---		---	" " "
	8-10	---		---	" " "
	10-12	---	2	---	9-10' Limerock
	12-14	---		---	Limerock
	14-18	---		---	Limerock with debris
	18-20	---		---	↓

7

Appendix F

Groundwater Sampling Logs and Chains of Custody

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

SITE NAME: DOUGLAS PARK	SITE LOCATION: Miami - FL
WELL NO: IW-1	DATE: 4-25-2014

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (_____ feet - _____ feet) X _____ gallons/foot = _____ gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<div style="font-size: 2em; opacity: 0.5; position: absolute; left: 10%; top: 10%;">Dynamic conditions</div> <div style="font-size: 2em; opacity: 0.5; position: absolute; left: 60%; top: 10%;">> 20 mins irrigation</div>											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: PT/URS				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT:		SAMPLING ENDED AT: 1103		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>Douglas Park</u>	SITE LOCATION: <u>Miami Fla</u>
WELL NO: <u>MW-3</u>	SAMPLE ID: <u>MW-3</u>
DATE: <u>4-28-2009</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>4</u>	WELL SCREEN INTERVAL DEPTH: <u>10</u> feet to <u>20</u> feet	STATIC DEPTH TO WATER (feet): <u>11.95</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>20.10</u> feet - <u>11.95</u> feet) X <u>.16</u> gallons/foot = <u>1.30</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>13.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>13.5</u>	PURGING INITIATED AT: <u>10:57</u>	PURGING ENDED AT: <u>11:27</u>	TOTAL VOLUME PURGED (gallons): <u>4.2</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L</u> or <u>% saturation</u>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:08	1.5	1.5	.15	11.97	6.88	27.3	1013	.21	36.17	SL	None
11:11	.45	1.95	.15	11.97	6.83	27.3	1014	.22	36.34	SL	None
11:14	.45	2.40	.15	11.97	6.83	27.2	1012	.22	31.35	SL	None
11:17	.45	2.85	.15	11.97	6.84	27.1	1009	.19	21.84	SL	None
11:20	.45	3.30	.15	11.97	6.83	27.2	1008	.19	16.98	CLL	None
11:23	.45	3.75	.15	11.98	6.81	27.2	1009	.19	17.30	CLL	None
11:27	.45	4.20	.15	11.98	6.81	27.2	1008	.17	19.96	CLL	None

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Mike Powell / URS</u>		SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>		SAMPLING INITIATED AT: <u>11:27</u>	SAMPLING ENDED AT: <u>11:35</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>13.5</u>		TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u>	FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP <u>Y</u>		TUBING <u>Y</u> (replaced)		DUPLICATE: <u>Y</u>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-3</u>	<u>2</u>	<u>AG</u>	<u>1L</u>	<u>-</u>			<u>Dioxins</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>AG</u>	<u>1L</u>	<u>-</u>			<u>PEB</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>AG</u>	<u>1L</u>	<u>H2SO4</u>			<u>Fb-Pp</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>HNO3</u>			<u>Metals</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>			<u>Ammonia</u>	<u>APP</u>	<u>400</u>

REMARKS:

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

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

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

Revision Date: February 12, 2009

33.40

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME: <u>Douglas Park</u>	SITE LOCATION: <u>Miami Fla.</u>
WELL NO: <u>MW-1</u>	SAMPLE ID: <u>MW-1</u> DATE: <u>4-28-2014</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>28</u> feet to <u>33</u> feet	STATIC DEPTH TO WATER (feet): <u>12.18</u>	PURGE PUMP TYPE OR BAILER: <u>P</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= <u>0.0</u> gallons + (<u>0.0026</u> gallons/foot X <u>50</u> feet) + <u>0.125</u> gallons = <u>0.255</u> gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>29</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>29</u>	PURGING INITIATED AT: <u>9:32</u>	PURGING ENDED AT: <u>09:51</u>	TOTAL VOLUME PURGED (gallons): <u>2.85</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>9:42</u>	<u>1.5</u>	<u>1.5</u>	<u>.15</u>	<u>12.20</u>	<u>7.28</u>	<u>26.5</u>	<u>642</u>	<u>.28</u>	<u>17.62</u>	<u>C1R</u>	<u>None</u>
<u>9:45</u>	<u>.45</u>	<u>1.95</u>	<u>.15</u>	<u>12.20</u>	<u>7.28</u>	<u>26.5</u>	<u>658</u>	<u>.32</u>	<u>13.26</u>	<u>C1R</u>	<u>None</u>
<u>9:48</u>	<u>.45</u>	<u>2.40</u>	<u>.15</u>	<u>12.20</u>	<u>7.28</u>	<u>26.5</u>	<u>637</u>	<u>.36</u>	<u>9.34</u>	<u>C1R</u>	<u>None</u>
<u>9:51</u>	<u>.45</u>	<u>2.85</u>	<u>.15</u>	<u>12.20</u>	<u>7.28</u>	<u>26.5</u>	<u>637</u>	<u>.27</u>	<u>9.11</u>	<u>C1R</u>	<u>None</u>

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>M Powell / URS</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>9:51</u>	SAMPLING ENDED AT: <u>10:06</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>29</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTRATION EQUIPMENT TYPE: _____
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-1</u>	<u>2</u>	<u>AG</u>	<u>1L</u>				<u>Dioxins</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>AG</u>	<u>1L</u>				<u>PCB</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>AG</u>	<u>1L</u>	<u>MZSO</u>			<u>FL PRO</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>			<u>metals</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250</u>	<u>H2SO4</u>			<u>Ammonia</u>	<u>↓</u>	<u>↓</u>

REMARKS:

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

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

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

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

SITE NAME: <u>Douglas Park</u>	SITE LOCATION: <u>Miami Fla</u>
WELL NO: <u>MW-2</u>	DATE: <u>4-24-2014</u>
SAMPLE ID: <u>MW-2</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>10</u> feet to <u>20</u> feet	STATIC DEPTH TO WATER (feet): <u>12.46</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>20.0</u> feet - <u>12.46</u> feet) X <u>.16</u> gallons/foot = <u>1.021</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>14</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>14</u>	PURGING INITIATED AT: <u>10:15</u>	PURGING ENDED AT: <u>10:34</u>	TOTAL VOLUME PURGED (gallons): <u>2.85</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L or % saturation</u>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>10:25</u>	<u>.15</u>	<u>1.5</u>	<u>.15</u>	<u>12.48</u>	<u>6.67</u>	<u>28.3</u>	<u>1089</u>	<u>.14</u>	<u>21.93</u>	<u>CLR</u>	<u>None</u>
<u>10:28</u>	<u>.45</u>	<u>1.95</u>	<u>.15</u>	<u>12.48</u>	<u>6.67</u>	<u>28.3</u>	<u>1094</u>	<u>.14</u>	<u>18.18</u>	<u>CLR</u>	<u>None</u>
<u>10:31</u>	<u>.45</u>	<u>2.40</u>	<u>.15</u>	<u>12.48</u>	<u>6.66</u>	<u>28.3</u>	<u>1699</u>	<u>.13</u>	<u>13.91</u>	<u>CLR</u>	<u>None</u>
<u>10:34</u>	<u>.45</u>	<u>2.85</u>	<u>.15</u>	<u>12.48</u>	<u>6.65</u>	<u>28.3</u>	<u>1101</u>	<u>.13</u>	<u>13.85</u>	<u>CLR</u>	<u>None</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>M. Powell / CWRSC</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>10:34</u>		SAMPLING ENDED AT: <u>10:45</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>14</u>				TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: _____ µm				
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
<u>MW-2</u>	<u>2</u>	<u>AG</u>	<u>1L</u>	<u>-</u>			<u>Dioxin + Furans</u>		<u>APP</u>		<u>400</u>	
	<u>1</u>	<u>AG</u>	<u>1L</u>	<u>-</u>			<u>PCB</u>		<u>APP</u>		<u>400</u>	
	<u>1</u>	<u>AG</u>	<u>1L</u>	<u>-</u>			<u>FL-PCB</u>		<u>APP</u>		<u>400</u>	
	<u>1</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>			<u>Metals</u>		<u>APP</u>		<u>400</u>	
	<u>1</u>	<u>PE</u>	<u>250</u>	<u>H2SO4</u>			<u>Ammonia</u>		<u>APP</u>		<u>400</u>	
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

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

Appendix G

Laboratory Analytical Results (Groundwater)

May 09, 2014

Vivek Kamath
URS Miami
7650 NW 19th St
Miami, FL 33126

RE: Project: Douglas Park
Pace Project No.: 35135672

Dear Vivek Kamath:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

cc: Babu Madabhushi, URS Miami
Paula Sessions, URS Miami



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Douglas Park
Pace Project No.: 35135672

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
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
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Douglas Park
Pace Project No.: 35135672

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35135672001	MW-1	Water	04/28/14 09:51	04/28/14 14:45
35135672002	MW-2	Water	04/28/14 10:34	04/28/14 14:45
35135672003	MW-3	Water	04/28/14 11:27	04/28/14 14:45

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SAMPLE ANALYTE COUNT

Project: Douglas Park

Pace Project No.: 35135672

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135672001	MW-1	EPA 8082	JLG	9	PASI-O
		FL-PRO	IRL	3	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7470	DRS	1	PASI-O
		EPA 350.1	ADC	1	PASI-O
35135672002	MW-2	EPA 8082	JLG	9	PASI-O
		FL-PRO	IRL	3	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7470	DRS	1	PASI-O
		EPA 350.1	ADC	1	PASI-O
35135672003	MW-3	EPA 8082	JLG	9	PASI-O
		FL-PRO	IRL	3	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7470	DRS	1	PASI-O
		EPA 350.1	ADC	1	PASI-O

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SUMMARY OF DETECTION

Project: Douglas Park
Pace Project No.: 35135672

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35135672001	MW-1					
EPA 6010	Arsenic	7.0 l	ug/L	10.0	04/30/14 20:24	
EPA 6010	Barium	40.7	ug/L	10.0	04/30/14 20:24	
EPA 6010	Iron	342	ug/L	40.0	04/30/14 20:24	
EPA 350.1	Nitrogen, Ammonia	0.022 l	mg/L	0.050	04/30/14 15:34	
35135672002	MW-2					
EPA 6010	Arsenic	17.4	ug/L	10.0	04/30/14 20:39	
EPA 6010	Barium	479	ug/L	10.0	04/30/14 20:39	
EPA 6010	Copper	9.6	ug/L	5.0	04/30/14 20:39	
EPA 6010	Iron	7290	ug/L	40.0	04/30/14 20:39	
EPA 350.1	Nitrogen, Ammonia	2.6	mg/L	0.050	04/30/14 15:35	
35135672003	MW-3					
EPA 6010	Barium	94.2	ug/L	10.0	04/30/14 20:43	
EPA 6010	Iron	174	ug/L	40.0	04/30/14 20:43	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135672

Sample: MW-1 **Lab ID: 35135672001** Collected: 04/28/14 09:51 Received: 04/28/14 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.076U	ug/L	0.47	0.076	1	04/30/14 17:00	05/01/14 14:56	12674-11-2	
PCB-1221 (Aroclor 1221)	0.077U	ug/L	0.47	0.077	1	04/30/14 17:00	05/01/14 14:56	11104-28-2	
PCB-1232 (Aroclor 1232)	0.11U	ug/L	0.47	0.11	1	04/30/14 17:00	05/01/14 14:56	11141-16-5	
PCB-1242 (Aroclor 1242)	0.12U	ug/L	0.47	0.12	1	04/30/14 17:00	05/01/14 14:56	53469-21-9	
PCB-1248 (Aroclor 1248)	0.26U	ug/L	0.47	0.26	1	04/30/14 17:00	05/01/14 14:56	12672-29-6	
PCB-1254 (Aroclor 1254)	0.14U	ug/L	0.47	0.14	1	04/30/14 17:00	05/01/14 14:56	11097-69-1	
PCB-1260 (Aroclor 1260)	0.10U	ug/L	0.47	0.10	1	04/30/14 17:00	05/01/14 14:56	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	74 %		48-111		1	04/30/14 17:00	05/01/14 14:56	877-09-8	
Decachlorobiphenyl (S)	57 %		63-121		1	04/30/14 17:00	05/01/14 14:56	2051-24-3	P2, S7
FL-PRO Water									
Analytical Method: FL-PRO Preparation Method: EPA 3510									
Petroleum Range Organics	0.061U	mg/L	0.10	0.061	1	04/29/14 15:00	05/01/14 11:08		
Surrogates									
o-Terphenyl (S)	93 %		82-142		1	04/29/14 15:00	05/01/14 11:08	84-15-1	
N-Pentatriacontane (S)	94 %		42-159		1	04/29/14 15:00	05/01/14 11:08	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	50.0U	ug/L	100	50.0	1	04/30/14 08:55	04/30/14 20:24	7429-90-5	
Antimony	5.0U	ug/L	15.0	5.0	1	04/30/14 08:55	04/30/14 20:24	7440-36-0	
Arsenic	7.0 I	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:24	7440-38-2	
Barium	40.7	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:24	7440-39-3	
Cadmium	0.50U	ug/L	1.0	0.50	1	04/30/14 08:55	04/30/14 20:24	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:24	7440-47-3	
Copper	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:24	7440-50-8	
Iron	342	ug/L	40.0	20.0	1	04/30/14 08:55	04/30/14 20:24	7439-89-6	
Lead	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:24	7439-92-1	
Selenium	7.5U	ug/L	15.0	7.5	1	04/30/14 08:55	04/30/14 20:24	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:24	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	04/30/14 13:45	05/01/14 12:17	7439-97-6	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.022 I	mg/L	0.050	0.020	1		04/30/14 15:34	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135672

Sample: MW-2 **Lab ID: 35135672002** Collected: 04/28/14 10:34 Received: 04/28/14 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.075U	ug/L	0.47	0.075	1	04/30/14 17:00	05/01/14 14:10	12674-11-2	
PCB-1221 (Aroclor 1221)	0.076U	ug/L	0.47	0.076	1	04/30/14 17:00	05/01/14 14:10	11104-28-2	
PCB-1232 (Aroclor 1232)	0.11U	ug/L	0.47	0.11	1	04/30/14 17:00	05/01/14 14:10	11141-16-5	
PCB-1242 (Aroclor 1242)	0.12U	ug/L	0.47	0.12	1	04/30/14 17:00	05/01/14 14:10	53469-21-9	
PCB-1248 (Aroclor 1248)	0.26U	ug/L	0.47	0.26	1	04/30/14 17:00	05/01/14 14:10	12672-29-6	
PCB-1254 (Aroclor 1254)	0.14U	ug/L	0.47	0.14	1	04/30/14 17:00	05/01/14 14:10	11097-69-1	
PCB-1260 (Aroclor 1260)	0.10U	ug/L	0.47	0.10	1	04/30/14 17:00	05/01/14 14:10	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	66 %		48-111		1	04/30/14 17:00	05/01/14 14:10	877-09-8	
Decachlorobiphenyl (S)	49 %		63-121		1	04/30/14 17:00	05/01/14 14:10	2051-24-3	P2, S7
FL-PRO Water									
Analytical Method: FL-PRO Preparation Method: EPA 3510									
Petroleum Range Organics	0.061U	mg/L	0.10	0.061	1	04/29/14 15:00	05/01/14 11:40		
Surrogates									
o-Terphenyl (S)	89 %		82-142		1	04/29/14 15:00	05/01/14 11:40	84-15-1	
N-Pentatriacontane (S)	89 %		42-159		1	04/29/14 15:00	05/01/14 11:40	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	50.0U	ug/L	100	50.0	1	04/30/14 08:55	04/30/14 20:39	7429-90-5	
Antimony	5.0U	ug/L	15.0	5.0	1	04/30/14 08:55	04/30/14 20:39	7440-36-0	
Arsenic	17.4	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:39	7440-38-2	
Barium	479	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:39	7440-39-3	
Cadmium	0.50U	ug/L	1.0	0.50	1	04/30/14 08:55	04/30/14 20:39	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:39	7440-47-3	
Copper	9.6	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:39	7440-50-8	
Iron	7290	ug/L	40.0	20.0	1	04/30/14 08:55	04/30/14 20:39	7439-89-6	
Lead	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:39	7439-92-1	
Selenium	7.5U	ug/L	15.0	7.5	1	04/30/14 08:55	04/30/14 20:39	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:39	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	04/30/14 13:45	05/01/14 12:19	7439-97-6	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	2.6	mg/L	0.050	0.020	1		04/30/14 15:35	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135672

Sample: MW-3 **Lab ID: 35135672003** Collected: 04/28/14 11:27 Received: 04/28/14 14:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.076U	ug/L	0.48	0.076	1	04/30/14 17:00	05/01/14 15:57	12674-11-2	
PCB-1221 (Aroclor 1221)	0.077U	ug/L	0.48	0.077	1	04/30/14 17:00	05/01/14 15:57	11104-28-2	
PCB-1232 (Aroclor 1232)	0.11U	ug/L	0.48	0.11	1	04/30/14 17:00	05/01/14 15:57	11141-16-5	
PCB-1242 (Aroclor 1242)	0.12U	ug/L	0.48	0.12	1	04/30/14 17:00	05/01/14 15:57	53469-21-9	
PCB-1248 (Aroclor 1248)	0.26U	ug/L	0.48	0.26	1	04/30/14 17:00	05/01/14 15:57	12672-29-6	
PCB-1254 (Aroclor 1254)	0.14U	ug/L	0.48	0.14	1	04/30/14 17:00	05/01/14 15:57	11097-69-1	
PCB-1260 (Aroclor 1260)	0.10U	ug/L	0.48	0.10	1	04/30/14 17:00	05/01/14 15:57	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	73 %		48-111		1	04/30/14 17:00	05/01/14 15:57	877-09-8	
Decachlorobiphenyl (S)	64 %		63-121		1	04/30/14 17:00	05/01/14 15:57	2051-24-3	
FL-PRO Water									
Analytical Method: FL-PRO Preparation Method: EPA 3510									
Petroleum Range Organics	0.061U	mg/L	0.10	0.061	1	04/29/14 15:00	05/01/14 11:40		
Surrogates									
o-Terphenyl (S)	96 %		82-142		1	04/29/14 15:00	05/01/14 11:40	84-15-1	
N-Pentatriacontane (S)	106 %		42-159		1	04/29/14 15:00	05/01/14 11:40	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	50.0U	ug/L	100	50.0	1	04/30/14 08:55	04/30/14 20:43	7429-90-5	
Antimony	5.0U	ug/L	15.0	5.0	1	04/30/14 08:55	04/30/14 20:43	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:43	7440-38-2	
Barium	94.2	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:43	7440-39-3	
Cadmium	0.50U	ug/L	1.0	0.50	1	04/30/14 08:55	04/30/14 20:43	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:43	7440-47-3	
Copper	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:43	7440-50-8	
Iron	174	ug/L	40.0	20.0	1	04/30/14 08:55	04/30/14 20:43	7439-89-6	
Lead	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 20:43	7439-92-1	
Selenium	7.5U	ug/L	15.0	7.5	1	04/30/14 08:55	04/30/14 20:43	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 20:43	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	04/30/14 13:45	05/01/14 12:21	7439-97-6	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.020U	mg/L	0.050	0.020	1		04/30/14 15:36	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135672

QC Batch: MERP/4598 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35135672001, 35135672002, 35135672003

METHOD BLANK: 890406 Matrix: Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.10U	0.20	05/01/14 11:23	

LABORATORY CONTROL SAMPLE: 890407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890408 890409

Parameter	Units	35135078002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury	ug/L	0.10U	2	2	2.0	2.1	99	104	80-120	5	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135672

QC Batch: MPRP/18225 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35135672001, 35135672002, 35135672003

METHOD BLANK: 890122 Matrix: Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	50.0U	100	04/30/14 18:39	
Antimony	ug/L	5.0U	15.0	04/30/14 18:39	
Arsenic	ug/L	5.0U	10.0	04/30/14 18:39	
Barium	ug/L	5.0U	10.0	04/30/14 18:39	
Cadmium	ug/L	0.50U	1.0	04/30/14 18:39	
Chromium	ug/L	2.5U	5.0	04/30/14 18:39	
Copper	ug/L	2.5U	5.0	04/30/14 18:39	
Iron	ug/L	20.0U	40.0	04/30/14 18:39	
Lead	ug/L	5.0U	10.0	04/30/14 18:39	
Selenium	ug/L	7.5U	15.0	04/30/14 18:39	
Silver	ug/L	2.5U	5.0	04/30/14 18:39	

LABORATORY CONTROL SAMPLE: 890123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2500	2390	95	80-120	
Antimony	ug/L	250	235	94	80-120	
Arsenic	ug/L	250	231	92	80-120	
Barium	ug/L	250	239	95	80-120	
Cadmium	ug/L	25	24.1	96	80-120	
Chromium	ug/L	250	245	98	80-120	
Copper	ug/L	250	243	97	80-120	
Iron	ug/L	2500	2370	95	80-120	
Lead	ug/L	250	246	98	80-120	
Selenium	ug/L	250	242	97	80-120	
Silver	ug/L	25	25.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890124 890125

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35135666001 Result	Spike Conc.	Spike Conc.	Result							
Aluminum	ug/L	50.0U	2500	2500	2410	2460	96	98	75-125	2	20	
Antimony	ug/L	5.0U	250	250	235	244	94	98	75-125	4	20	
Arsenic	ug/L	5.0U	250	250	232	239	93	96	75-125	3	20	
Barium	ug/L	16.8	250	250	254	262	95	98	75-125	3	20	
Cadmium	ug/L	0.50U	25	25	23.7	24.3	95	97	75-125	3	20	
Chromium	ug/L	2.5U	250	250	244	250	98	100	75-125	2	20	
Copper	ug/L	2.5U	250	250	244	255	97	102	75-125	4	20	
Iron	ug/L	216	2500	2500	2560	2610	94	96	75-125	2	20	
Lead	ug/L	5.0U	250	250	241	247	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135672

Parameter	Units	35135666001		890124		890125		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Selenium	ug/L	7.5U	250	250	240	247	96	99	75-125	3	20			
Silver	ug/L	2.5U	25	25	24.7	26.1	99	104	75-125	5	20			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135672

QC Batch: OEXT/17123 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 35135672001, 35135672002, 35135672003

METHOD BLANK: 890602 Matrix: Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	0.080U	0.50	05/01/14 11:36	
PCB-1221 (Aroclor 1221)	ug/L	0.081U	0.50	05/01/14 11:36	
PCB-1232 (Aroclor 1232)	ug/L	0.12U	0.50	05/01/14 11:36	
PCB-1242 (Aroclor 1242)	ug/L	0.13U	0.50	05/01/14 11:36	
PCB-1248 (Aroclor 1248)	ug/L	0.28U	0.50	05/01/14 11:36	
PCB-1254 (Aroclor 1254)	ug/L	0.14U	0.50	05/01/14 11:36	
PCB-1260 (Aroclor 1260)	ug/L	0.11U	0.50	05/01/14 11:36	
Decachlorobiphenyl (S)	%	75	63-121	05/01/14 11:36	
Tetrachloro-m-xylene (S)	%	75	48-111	05/01/14 11:36	

LABORATORY CONTROL SAMPLE: 890603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.3	94	50-114	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.5	98	10-127	
Decachlorobiphenyl (S)	%			90	63-121	
Tetrachloro-m-xylene (S)	%			69	48-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890728 890729

Parameter	Units	35135856001		890729		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
PCB-1016 (Aroclor 1016)	ug/L	0.080U	5	5	4.6	5.0	92	101	50-114	9	40	
PCB-1221 (Aroclor 1221)	ug/L	0.081U			0.16U	0.16U						
PCB-1232 (Aroclor 1232)	ug/L	0.12U			0.24U	0.24U						
PCB-1242 (Aroclor 1242)	ug/L	0.13U			0.25U	0.25U						
PCB-1248 (Aroclor 1248)	ug/L	0.28U			0.55U	0.55U						
PCB-1254 (Aroclor 1254)	ug/L	0.15U			0.29U	0.29U						
PCB-1260 (Aroclor 1260)	ug/L	0.11U	5	5	4.9	5.3	99	106	10-127	7	40	
Decachlorobiphenyl (S)	%						99	103	63-121			
Tetrachloro-m-xylene (S)	%						83	87	48-111			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135672

QC Batch: OEXT/17107 Analysis Method: FL-PRO
QC Batch Method: EPA 3510 Analysis Description: FL-PRO Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

METHOD BLANK: 889480 Matrix: Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.059U	0.10	05/01/14 06:56	
N-Pentatriacontane (S)	%	97	42-159	05/01/14 06:56	
o-Terphenyl (S)	%	95	82-142	05/01/14 06:56	

LABORATORY CONTROL SAMPLE: 889481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	4.6	92	55-118	
N-Pentatriacontane (S)	%			100	42-159	
o-Terphenyl (S)	%			102	82-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 889531 889532

Parameter	Units	35135702001		889531		889532		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.					MSD % Rec
Petroleum Range Organics	mg/L	0.059U	10	10	9.8	9.3	97	92	55-118	5	20	
N-Pentatriacontane (S)	%						109	96	42-159			
o-Terphenyl (S)	%						102	101	82-142			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135672

QC Batch: WETA/35421 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35135672001, 35135672002, 35135672003

METHOD BLANK: 890402 Matrix: Water
Associated Lab Samples: 35135672001, 35135672002, 35135672003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	04/30/14 15:13	

LABORATORY CONTROL SAMPLE: 890403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 890405

Parameter	Units	35134943001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.46	1	1.5	102	90-110	

SAMPLE DUPLICATE: 890404

Parameter	Units	35134943001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.46	0.47	.6	20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Douglas Park
Pace Project No.: 35135672

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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: WETA/35421

[1] Samples are not distilled

ANALYTE QUALIFIERS

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

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Douglas Park
Pace Project No.: 35135672

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135672001	MW-1	EPA 3510	OEXT/17123	EPA 8082	GCSV/11208
35135672002	MW-2	EPA 3510	OEXT/17123	EPA 8082	GCSV/11208
35135672003	MW-3	EPA 3510	OEXT/17123	EPA 8082	GCSV/11208
35135672001	MW-1	EPA 3510	OEXT/17107	FL-PRO	GCSV/11202
35135672002	MW-2	EPA 3510	OEXT/17107	FL-PRO	GCSV/11202
35135672003	MW-3	EPA 3510	OEXT/17107	FL-PRO	GCSV/11202
35135672001	MW-1	EPA 3010	MPRP/18225	EPA 6010	ICP/11291
35135672002	MW-2	EPA 3010	MPRP/18225	EPA 6010	ICP/11291
35135672003	MW-3	EPA 3010	MPRP/18225	EPA 6010	ICP/11291
35135672001	MW-1	EPA 7470	MERP/4598	EPA 7470	MERC/4593
35135672002	MW-2	EPA 7470	MERP/4598	EPA 7470	MERC/4593
35135672003	MW-3	EPA 7470	MERP/4598	EPA 7470	MERC/4593
35135672001	MW-1	EPA 350.1	WETA/35421		
35135672002	MW-2	EPA 350.1	WETA/35421		
35135672003	MW-3	EPA 350.1	WETA/35421		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR) Table Number: _____

Client Name: URS Project #: 35135072

Courier: Fed Ex UPS USPS Client Commercial Pace
 Other _____

Tracking # _____
 Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date and Initials of person examining contents:
9/28/14 (Signature)
2336

Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used T165 Type of Ice: Wet Blue None

Cooler Temperature: 23 (visual) -0.1 (Correction Factor) 2.2 (Actual)

(Temp should be above freezing to 6°C. If below 0°C, then was sample frozen?)
 Yes No

Receipt of samples satisfactory: Yes No

Rush TAT requested on COG: _____

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COG	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COG (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

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

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____	Size & Qty of Bottles Received _____ x 5 Gal _____ x 2.5 Gal _____ x 1 Gal _____ x 1 Liter _____ x 500 mL _____ x 250 mL _____ x Other: _____
Production Code: _____	
Date/Time Opened: _____	
Number of Unopened Bottles Remaining: _____	
Extra Sample In Shed: Yes No	

Report Prepared for:

Christina Raschke
PASI Florida
8 East Tower Circle
Ormond Beach FL 32174

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

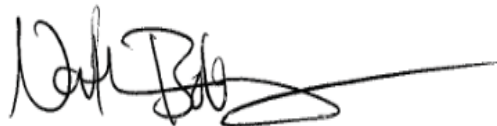
Pace Project #: 10265282
Sample Receipt Date: 04/30/2014
Client Project #: 35135672
Client Sub PO #: N/A
State Cert #: E87605

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

This report has been reviewed by:



May 08, 2014

Nate Boberg,

(fax)

Report Prepared Date:

May 8, 2014



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on three samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 68-103%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners; the affected values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain a trace level of OCDD. This level was below the calibration range of the method. Sample levels similar to the corresponding blank level were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory spike samples were also prepared with the sample batch using clean water that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 77-118% with relative percent differences of 0.0-6.6%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE)	MN002
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP)	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

Report No.....10265282_8290

Chain of Custody

10265282
 RUSH
 Pace Analytical
 4324
 1127
 www.pacelabs.com

Workorder: 35135672 Workorder Name: Douglas Park Owner Received Date: 4/28/2014 Results Requested By: 5/2/2014

Report To	Subcontract To	Requested Analysis									
Christina Raschke Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700										

XXXX PAST DXNH

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					LAB USE ONLY
						Unpreserved					
1	MW-1	PS	4/28/2014 09:51	35135672001	Water	1					
2	MW-2	PS	4/28/2014 10:34	35135672002	Water	1					
3	MW-3	PS	4/28/2014 11:27	35135672003	Water	1					
4											
5											

Transfers					Comments
Released By	Date/Time	Received By	Date/Time		
<i>NK</i>	<i>4-29-14</i>	<i>DJ TUCKER</i>	<i>4-30-14</i>		<i>855</i>

Cooler Temperature on Receipt *1.5* °C Custody Seal Y or N Received on Ice or N Samples Intact or N

Please E-Mail all results in a
 NELAC-Compliant Florida
 MDL PDF format to the PM
 isted above as soon as possible.

Page 5 of 15

Page 23 of 33



Document Name:
Sample Condition Upon Receipt Form
 Document No.:
F-MN-L-213-rev.09

Document Revised: 28Feb2014
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition
 Upon Receipt

Client Name: PACE FL

Project #: **WO# : 10265282**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other:
 Tracking Number: 5419 9258 5230

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: Temp Blank? Yes No

Thermom. Used: B88A9130516413 B88A912167504 B88A9132521491 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.5 Cooler Temp Corrected (°C): 1.5 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: true Date and Initials of Person Examining Contents: 4-30-14/RL

				Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	9.
-Pace Containers Used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	14.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Date: 4-30-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	MW-1		
Lab Sample ID	35135672001		
Filename	U140506B_05		
Injected By	BAL		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/28/2014 09:51
ICAL ID	U140322	Received	04/30/2014 08:55
CCal Filename(s)	U140506B_01 & U140506B_16	Extracted	05/01/2014 16:00
Method Blank ID	BLANK-40360	Analyzed	05/06/2014 19:32

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----0.00000120		2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	----0.00000120		2,3,7,8-TCDD-13C	2.00	97
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	----0.00000110		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	----0.00000110		1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	ND	----0.00000120		1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	ND	----0.00000084		2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	ND	----0.00000100		1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	----0.00000100		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	----0.00000100		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	----0.00000130		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	----0.00000130		OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	----0.00000130				
1,2,3,7,8,9-HxCDF	ND	----0.00000170		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000038	----0.00000140	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000150		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	----0.00000170				
1,2,3,7,8,9-HxCDD	ND	----0.00000170				
Total HxCDD	ND	----0.00000160				
1,2,3,4,6,7,8-HpCDF	ND	----0.00000180		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000310		Equivalence: 0.0000018 ug/L		
Total HpCDF	ND	----0.00000240		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	ND	----0.00000310				
Total HpCDD	ND	----0.00000310				
OCDF	ND	----0.00000420				
OCDD	ND	----0.00000510				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.
J = Estimated value

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	MW-2		
Lab Sample ID	35135672002		
Filename	U140507A_04		
Injected By	BAL		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/28/2014 10:34
ICAL ID	U140322	Received	04/30/2014 08:55
CCal Filename(s)	U140507A_01 & U140507A_07	Extracted	05/01/2014 16:00
Method Blank ID	BLANK-40360	Analyzed	05/07/2014 09:38

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----0.00000072		2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	----0.00000072		2,3,7,8-TCDD-13C	2.00	94
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	----0.00000084		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	0.00000100	----0.00000084	J	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	----0.00000061		1,2,3,6,7,8-HxCDF-13C	2.00	103
2,3,4,7,8-PeCDF	ND	----0.00000042		2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	0.00000150	----0.00000051	J	1,2,3,7,8,9-HxCDF-13C	2.00	90
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	----0.00000065		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	----0.00000065		1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	--0.00000069	0.00000061	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	----0.00000053		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	----0.00000042				
1,2,3,7,8,9-HxCDF	ND	----0.00000062		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.00000058	----0.00000055	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000043		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	----0.00000055				
1,2,3,7,8,9-HxCDD	ND	----0.00000054				
Total HxCDD	ND	----0.00000051				
1,2,3,4,6,7,8-HpCDF	0.00000085	----0.00000074	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000097		Equivalence: 0.0000011 ug/L		
Total HpCDF	0.00000085	----0.00000086		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	0.00000130	----0.00000062	J			
Total HpCDD	0.00000130	----0.00000062	J			
OCDF	--0.00000140	0.00000120	IJ			
OCDD	0.00000690	----0.00000160	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Interference present

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	MW-3		
Lab Sample ID	35135672003		
Filename	U140506B_07		
Injected By	BAL		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/28/2014 11:27
ICAL ID	U140322	Received	04/30/2014 08:55
CCal Filename(s)	U140506B_01 & U140506B_16	Extracted	05/01/2014 16:00
Method Blank ID	BLANK-40360	Analyzed	05/06/2014 21:01

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----0.00000110		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	----0.00000110		2,3,7,8-TCDD-13C	2.00	94
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	----0.00000084		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	----0.00000084		1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	----0.00000080		1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	ND	----0.00000058		2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	ND	----0.00000069		1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	----0.00000067		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	----0.00000067		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	----0.00000057		1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	----0.00000043		OCDD-13C	4.00	79
2,3,4,6,7,8-HxCDF	ND	----0.00000050				
1,2,3,7,8,9-HxCDF	ND	----0.00000052		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000011	----0.00000050	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000064		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	----0.00000073				
1,2,3,7,8,9-HxCDD	ND	----0.00000058				
Total HxCDD	ND	----0.00000065				
1,2,3,4,6,7,8-HpCDF	ND	----0.00000036		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000067		Equivalence: 0.0000011 ug/L		
Total HpCDF	ND	----0.00000052		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	--0.00000093	0.00000092	IJ			
Total HpCDD	0.0000017	----0.00000092	J			
OCDF	ND	----0.00000110				
OCDD	0.0000072	----0.00000230	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Interference present

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-40360	Matrix	Water
Filename	F140506A_09	Dilution	NA
Total Amount Extracted	993 mL	Extracted	05/01/2014 16:00
ICAL ID	F131125	Analyzed	05/06/2014 15:17
CCal Filename(s)	F140506A_01 & F140506A_17	Injected By	SMT

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----0.00000110		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	----0.00000110		2,3,7,8-TCDD-13C	2.00	95
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----0.00000110		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	----0.00000110		1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----0.00000160		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	----0.00000190		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	----0.00000180		1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	----0.00000160		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	----0.00000160		1,2,3,4,6,7,8-HpCDF-13C	2.00	83
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	----0.00000072		1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	----0.00000066		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	----0.00000065				
1,2,3,7,8,9-HxCDF	ND	----0.00000077		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----0.00000070		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000099		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----0.00000140				
1,2,3,7,8,9-HxCDD	ND	----0.00000130				
Total HxCDD	ND	----0.00000120				
1,2,3,4,6,7,8-HpCDF	ND	----0.00000100		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000100		Equivalence: 0.0000020 ug/L		
Total HpCDF	ND	----0.00000100		(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	ND	----0.00000085				
Total HpCDD	ND	----0.00000085				
OCDF		----0.00000240	IJ			
OCDD	0.0000025	----0.00000210	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

J = Estimated value
I = Interference present

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-40361	Matrix	Water
Filename	F140506A_02	Dilution	NA
Total Amount Extracted	991 mL	Extracted	05/01/2014 16:00
ICAL ID	F131125	Analyzed	05/06/2014 10:04
CCal Filename(s)	F140506A_01 & F140506A_17	Injected By	SMT
Method Blank ID	BLANK-40360		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	98	2,3,7,8-TCDF-13C	2.0	77
Total TCDF				2,3,7,8-TCDD-13C	2.0	91
				1,2,3,7,8-PeCDF-13C	2.0	77
2,3,7,8-TCDD	0.20	0.16	78	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	84
				1,2,3,4,7,8-HxCDF-13C	2.0	79
1,2,3,7,8-PeCDF	1.0	1.1	106	1,2,3,6,7,8-HxCDF-13C	2.0	92
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	91
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	83
				1,2,3,4,7,8-HxCDD-13C	2.0	77
1,2,3,7,8-PeCDD	1.0	0.89	89	1,2,3,6,7,8-HxCDD-13C	2.0	87
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	84
				1,2,3,4,7,8,9-HpCDF-13C	2.0	84
1,2,3,4,7,8-HxCDF	1.0	1.1	108	1,2,3,4,6,7,8-HpCDD-13C	2.0	101
1,2,3,6,7,8-HxCDF	1.0	1.0	103	OCDD-13C	4.0	61
2,3,4,6,7,8-HxCDF	1.0	1.00	100			
1,2,3,7,8,9-HxCDF	1.0	1.0	104	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	110	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.2	117			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	101			
1,2,3,4,7,8,9-HpCDF	1.0	0.90	90			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.92	92			
Total HpCDD						
OCDF	2.0	1.9	97			
OCDD	2.0	2.1	105			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-40362	Matrix	Water
Filename	F140506A_03	Dilution	NA
Total Amount Extracted	986 mL	Extracted	05/01/2014 16:00
ICAL ID	F131125	Analyzed	05/06/2014 10:48
CCal Filename(s)	F140506A_01 & F140506A_17	Injected By	SMT
Method Blank ID	BLANK-40360		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	93	2,3,7,8-TCDF-13C	2.0	82
Total TCDF				2,3,7,8-TCDD-13C	2.0	94
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.15	77	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	86
				1,2,3,4,7,8-HxCDF-13C	2.0	83
1,2,3,7,8-PeCDF	1.0	1.0	103	1,2,3,6,7,8-HxCDF-13C	2.0	95
2,3,4,7,8-PeCDF	1.0	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.0	95
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	88
				1,2,3,4,7,8-HxCDD-13C	2.0	82
1,2,3,7,8-PeCDD	1.0	0.88	88	1,2,3,6,7,8-HxCDD-13C	2.0	90
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	89
				1,2,3,4,7,8,9-HpCDF-13C	2.0	85
1,2,3,4,7,8-HxCDF	1.0	1.0	104	1,2,3,4,6,7,8-HpCDD-13C	2.0	105
1,2,3,6,7,8-HxCDF	1.0	1.0	102	OCDD-13C	4.0	64
2,3,4,6,7,8-HxCDF	1.0	0.97	97			
1,2,3,7,8,9-HxCDF	1.0	0.99	99	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	103	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.0	1.2	118			
1,2,3,7,8,9-HxCDD	1.0	1.1	110			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	101			
1,2,3,4,7,8,9-HpCDF	1.0	0.89	89			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.91	91			
Total HpCDD						
OCDF	2.0	1.9	96			
OCDD	2.0	2.1	104			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client PASI Florida

Spike 1 ID LCS-40361
 Spike 1 Filename F140506A_02

Spike 2 ID LCSD-40362
 Spike 2 Filename F140506A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	98	93	5.2
2,3,7,8-TCDD	78	77	1.3
1,2,3,7,8-PeCDF	106	103	2.9
2,3,4,7,8-PeCDF	101	98	3.0
1,2,3,7,8-PeCDD	89	88	1.1
1,2,3,4,7,8-HxCDF	108	104	3.8
1,2,3,6,7,8-HxCDF	103	102	1.0
2,3,4,6,7,8-HxCDF	100	97	3.0
1,2,3,7,8,9-HxCDF	104	99	4.9
1,2,3,4,7,8-HxCDD	110	103	6.6
1,2,3,6,7,8-HxCDD	117	118	0.9
1,2,3,7,8,9-HxCDD	111	110	0.9
1,2,3,4,6,7,8-HpCDF	101	101	0.0
1,2,3,4,7,8,9-HpCDF	90	89	1.1
1,2,3,4,6,7,8-HpCDD	92	91	1.1
OCDF	97	96	1.0
OCDD	105	104	1.0

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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May 13, 2014

Vivek Kamath
URS Miami
7650 NW 19th St
Miami, FL 33126

RE: Project: Douglas Park
Pace Project No.: 35135549

Dear Vivek Kamath:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

cc: Babu Madabhushi, URS Miami
Paula Sessions, URS Miami



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CERTIFICATIONS

Project: Douglas Park
Pace Project No.: 35135549

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
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
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Douglas Park

Pace Project No.: 35135549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35135549001	IW-1	Water	04/25/14 11:03	04/25/14 13:25

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SAMPLE ANALYTE COUNT

Project: Douglas Park
Pace Project No.: 35135549

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35135549001	IW-1	EPA 8082	JLG	9	PASI-O
		FL-PRO	IRL	3	PASI-O
		EPA 6010	CRT	11	PASI-O
		EPA 7470	DRS	1	PASI-O
		EPA 350.1	ADC	1	PASI-O

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SUMMARY OF DETECTION

Project: Douglas Park

Pace Project No.: 35135549

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35135549001	IW-1					
EPA 6010	Barium	52.8	ug/L	10.0	04/30/14 19:02	
EPA 6010	Copper	9.1	ug/L	5.0	04/30/14 19:02	
EPA 6010	Iron	850	ug/L	40.0	04/30/14 19:02	
EPA 350.1	Nitrogen, Ammonia	0.21	mg/L	0.050	04/30/14 13:08	

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ANALYTICAL RESULTS

Project: Douglas Park
Pace Project No.: 35135549

Sample: IW-1 **Lab ID: 35135549001** Collected: 04/25/14 11:03 Received: 04/25/14 13:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.082U	ug/L	0.51	0.082	1	04/30/14 17:00	05/01/14 12:07	12674-11-2	
PCB-1221 (Aroclor 1221)	0.083U	ug/L	0.51	0.083	1	04/30/14 17:00	05/01/14 12:07	11104-28-2	
PCB-1232 (Aroclor 1232)	0.12U	ug/L	0.51	0.12	1	04/30/14 17:00	05/01/14 12:07	11141-16-5	
PCB-1242 (Aroclor 1242)	0.13U	ug/L	0.51	0.13	1	04/30/14 17:00	05/01/14 12:07	53469-21-9	
PCB-1248 (Aroclor 1248)	0.28U	ug/L	0.51	0.28	1	04/30/14 17:00	05/01/14 12:07	12672-29-6	
PCB-1254 (Aroclor 1254)	0.15U	ug/L	0.51	0.15	1	04/30/14 17:00	05/01/14 12:07	11097-69-1	
PCB-1260 (Aroclor 1260)	0.11U	ug/L	0.51	0.11	1	04/30/14 17:00	05/01/14 12:07	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	78 %		48-111		1	04/30/14 17:00	05/01/14 12:07	877-09-8	
Decachlorobiphenyl (S)	51 %		63-121		1	04/30/14 17:00	05/01/14 12:07	2051-24-3	P2, S7
FL-PRO Water									
Analytical Method: FL-PRO Preparation Method: EPA 3510									
Petroleum Range Organics	0.063U	mg/L	0.11	0.063	1	04/29/14 11:30	04/30/14 08:17		
Surrogates									
o-Terphenyl (S)	81 %		82-142		1	04/29/14 11:30	04/30/14 08:17	84-15-1	J(S0)
N-Pentatriacontane (S)	62 %		42-159		1	04/29/14 11:30	04/30/14 08:17	630-07-09	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	50.0U	ug/L	100	50.0	1	04/30/14 08:55	04/30/14 19:02	7429-90-5	
Antimony	5.0U	ug/L	15.0	5.0	1	04/30/14 08:55	04/30/14 19:02	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 19:02	7440-38-2	
Barium	52.8	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 19:02	7440-39-3	
Cadmium	0.50U	ug/L	1.0	0.50	1	04/30/14 08:55	04/30/14 19:02	7440-43-9	
Chromium	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 19:02	7440-47-3	
Copper	9.1	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 19:02	7440-50-8	
Iron	850	ug/L	40.0	20.0	1	04/30/14 08:55	04/30/14 19:02	7439-89-6	
Lead	5.0U	ug/L	10.0	5.0	1	04/30/14 08:55	04/30/14 19:02	7439-92-1	
Selenium	7.5U	ug/L	15.0	7.5	1	04/30/14 08:55	04/30/14 19:02	7782-49-2	
Silver	2.5U	ug/L	5.0	2.5	1	04/30/14 08:55	04/30/14 19:02	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10U	ug/L	0.20	0.10	1	04/30/14 13:45	05/01/14 11:21	7439-97-6	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.21	mg/L	0.050	0.020	1		04/30/14 13:08	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135549

QC Batch: MERP/4596 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35135549001

METHOD BLANK: 890382 Matrix: Water
Associated Lab Samples: 35135549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.10U	0.20	05/01/14 10:16	

LABORATORY CONTROL SAMPLE: 890383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890384 890385

Parameter	Units	35135160003		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	0.10U	2	2	1.9	1.9	95	96	80-120	.5	20				

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135549

QC Batch: MPRP/18225 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35135549001

METHOD BLANK: 890122 Matrix: Water
Associated Lab Samples: 35135549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	50.0U	100	04/30/14 18:39	
Antimony	ug/L	5.0U	15.0	04/30/14 18:39	
Arsenic	ug/L	5.0U	10.0	04/30/14 18:39	
Barium	ug/L	5.0U	10.0	04/30/14 18:39	
Cadmium	ug/L	0.50U	1.0	04/30/14 18:39	
Chromium	ug/L	2.5U	5.0	04/30/14 18:39	
Copper	ug/L	2.5U	5.0	04/30/14 18:39	
Iron	ug/L	20.0U	40.0	04/30/14 18:39	
Lead	ug/L	5.0U	10.0	04/30/14 18:39	
Selenium	ug/L	7.5U	15.0	04/30/14 18:39	
Silver	ug/L	2.5U	5.0	04/30/14 18:39	

LABORATORY CONTROL SAMPLE: 890123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2500	2390	95	80-120	
Antimony	ug/L	250	235	94	80-120	
Arsenic	ug/L	250	231	92	80-120	
Barium	ug/L	250	239	95	80-120	
Cadmium	ug/L	25	24.1	96	80-120	
Chromium	ug/L	250	245	98	80-120	
Copper	ug/L	250	243	97	80-120	
Iron	ug/L	2500	2370	95	80-120	
Lead	ug/L	250	246	98	80-120	
Selenium	ug/L	250	242	97	80-120	
Silver	ug/L	25	25.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890124 890125

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35135666001 Result	Spike Conc.	Spike Conc.	Result							Result
Aluminum	ug/L	50.0U	2500	2500	2410	2460	96	98	75-125	2	20	
Antimony	ug/L	5.0U	250	250	235	244	94	98	75-125	4	20	
Arsenic	ug/L	5.0U	250	250	232	239	93	96	75-125	3	20	
Barium	ug/L	16.8	250	250	254	262	95	98	75-125	3	20	
Cadmium	ug/L	0.50U	25	25	23.7	24.3	95	97	75-125	3	20	
Chromium	ug/L	2.5U	250	250	244	250	98	100	75-125	2	20	
Copper	ug/L	2.5U	250	250	244	255	97	102	75-125	4	20	
Iron	ug/L	216	2500	2500	2560	2610	94	96	75-125	2	20	
Lead	ug/L	5.0U	250	250	241	247	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135549

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			890124		890125							
Parameter	Units	35135666001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Selenium	ug/L	7.5U	250	250	240	247	96	99	75-125	3	20	
Silver	ug/L	2.5U	25	25	24.7	26.1	99	104	75-125	5	20	

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135549

QC Batch: OEXT/17123 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 35135549001

METHOD BLANK: 890602 Matrix: Water
Associated Lab Samples: 35135549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	0.080U	0.50	05/01/14 11:36	
PCB-1221 (Aroclor 1221)	ug/L	0.081U	0.50	05/01/14 11:36	
PCB-1232 (Aroclor 1232)	ug/L	0.12U	0.50	05/01/14 11:36	
PCB-1242 (Aroclor 1242)	ug/L	0.13U	0.50	05/01/14 11:36	
PCB-1248 (Aroclor 1248)	ug/L	0.28U	0.50	05/01/14 11:36	
PCB-1254 (Aroclor 1254)	ug/L	0.14U	0.50	05/01/14 11:36	
PCB-1260 (Aroclor 1260)	ug/L	0.11U	0.50	05/01/14 11:36	
Decachlorobiphenyl (S)	%	75	63-121	05/01/14 11:36	
Tetrachloro-m-xylene (S)	%	75	48-111	05/01/14 11:36	

LABORATORY CONTROL SAMPLE: 890603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.3	94	50-114	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.5	98	10-127	
Decachlorobiphenyl (S)	%			90	63-121	
Tetrachloro-m-xylene (S)	%			69	48-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890728 890729

Parameter	Units	35135856001		MS	MSD	890729		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result						
PCB-1016 (Aroclor 1016)	ug/L	0.080U		5	5	4.6	5.0	92	101	50-114	9	40	
PCB-1221 (Aroclor 1221)	ug/L	0.081U				0.16U	0.16U						
PCB-1232 (Aroclor 1232)	ug/L	0.12U				0.24U	0.24U						
PCB-1242 (Aroclor 1242)	ug/L	0.13U				0.25U	0.25U						
PCB-1248 (Aroclor 1248)	ug/L	0.28U				0.55U	0.55U						
PCB-1254 (Aroclor 1254)	ug/L	0.15U				0.29U	0.29U						
PCB-1260 (Aroclor 1260)	ug/L	0.11U		5	5	4.9	5.3	99	106	10-127	7	40	
Decachlorobiphenyl (S)	%							99	103	63-121			
Tetrachloro-m-xylene (S)	%							83	87	48-111			

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QUALITY CONTROL DATA

Project: Douglas Park

Pace Project No.: 35135549

QC Batch: OEXT/17100

Analysis Method: FL-PRO

QC Batch Method: EPA 3510

Analysis Description: FL-PRO Water

Associated Lab Samples: 35135549001

METHOD BLANK: 889044

Matrix: Water

Associated Lab Samples: 35135549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.059U	0.10	04/30/14 23:32	
N-Pentatriacontane (S)	%	99	42-159	04/30/14 23:32	
o-Terphenyl (S)	%	99	82-142	04/30/14 23:32	

LABORATORY CONTROL SAMPLE & LCSD: 889045

889269

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Petroleum Range Organics	mg/L	5	4.7	4.6	94	92	55-118	3	20	
N-Pentatriacontane (S)	%				105	101	42-159			
o-Terphenyl (S)	%				102	100	82-142			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Douglas Park
Pace Project No.: 35135549

QC Batch: WETA/35414 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35135549001

METHOD BLANK: 890371 Matrix: Water
Associated Lab Samples: 35135549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	04/30/14 12:36	

LABORATORY CONTROL SAMPLE: 890372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 890374

Parameter	Units	35135053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.46	1	1.5	99	90-110	

SAMPLE DUPLICATE: 890373

Parameter	Units	35135053001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.46	0.46	.9	20	

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QUALIFIERS

Project: Douglas Park

Pace Project No.: 35135549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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: WETA/35414

[1] Samples are not distilled

ANALYTE QUALIFIERS

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

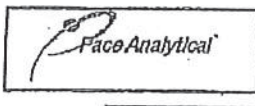
Project: Douglas Park

Pace Project No.: 35135549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35135549001	IW-1	EPA 3510	OEXT/17123	EPA 8082	GCSV/11208
35135549001	IW-1	EPA 3510	OEXT/17100	FL-PRO	GCSV/11197
35135549001	IW-1	EPA 3010	MPRP/18225	EPA 6010	ICP/11291
35135549001	IW-1	EPA 7470	MERP/4596	EPA 7470	MERC/4592
35135549001	IW-1	EPA 350.1	WETA/35414		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 05

Document Revised:
October 9, 2013
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: URS Project # 35135549

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-168 Type of Ice: Wet Blue None

Cooler Temperature °C 23 (Visual) -0.1 (Correction Factor) 2.2 (Actual) (Temp should be above freezing to 5°C). If below 0°C, then was sample frozen? Yes No

Date and Initials of person examining contents: 04/23/14 MR

Receipt of samples satisfactory: Yes No

Rush TAT requested on COC: _____

If yes, then all conditions below were met: If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample in Shed: Yes No	

Report Prepared for:

Christina Raschke
PASI Florida
8 East Tower Circle
Ormond Beach FL 32174

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

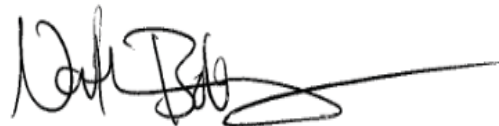
Pace Project #: 10265163
Sample Receipt Date: 04/29/2014
Client Project #: 35135549
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

This report has been reviewed by:



May 12, 2014

Nate Boberg,

(fax)

Report Prepared Date:

May 12, 2014



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Pace Analytical Services, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 63-106%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners; the affected values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results table and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory spike samples were also prepared with the sample batch using clean water that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 95-128% with relative percent differences of 0.0-7.0%. These results indicate high degrees of accuracy and precision for these determinations. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE)	MN002
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP)	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

10265163



Chain of Custody

Workorder: 35135549 Workorder Name: Douglas Park Owner Received Date: 4/25/2014 Results Requested By: 5/1/2014

Report To		Subcontract To				Requested Analysis										
Christina Raschke Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668		Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700														
						LAB USE ONLY										
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers									
1	IW-1	PS	4/25/2014 11:03	35135549001	Water	1					<i>8210 Dioxin d Foran</i> <input checked="" type="checkbox"/>					
2																
3																
4																
5																
Transfers		Released By	Date/Time	Received By	Date/Time	Comments										
1						Report TEQ using 2005 WHO factors PPL/2 "where" NA Report UG/L MB 4-29-14										
2																
3																
Cooler Temperature on Receipt		°C	Custody Seal Y or N		Received on Ice Y or N		Samples Intact Y or N									

Revised COC sent via Email on 4/28
MB 4-30-14

Report No.....10265163_8290

Page 5 of 14

Page 21 of 30

Chain of Custody

1128

RUSH

JP 4-29-14



Workorder: 35135549

Workorder Name: Douglas Park

Owner Received Date: 4/25/2014 Results Requested By: 5/1/2014

Report To	Subcontract To	Requested Analysis																				
Christina Raschke Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700																					


1613 Dioxin

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				LAB USE ONLY
						Unpreserved				
1	IW-1	PS	4/25/2014 11:03	35135549001	Water	1				
2	JP 4/28									
3										
4										
5										

Transfers					Comments
Released By	Date/Time	Received By	Date/Time		
JP	4/28/14 1600	[Signature]	4/29/14 8:50		

Cooler Temperature on Receipt 4.5 °C Custody Seal Y or **N** Received on Ice **Y** or N Samples Intact **Y** or N

Please E-Mail all results in a NELAC-Compliant Florida MDL PDF format to the PM isted above as soon as possible.

Sample Condition Upon Receipt	Client Name: <u>Pace FL</u>	Project #: _____	WO#: 10265163
Courier: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> SpeeDee <input type="checkbox"/> Other: _____			 10265163
Tracking Number: <u>5419 9258 4500</u>			

Custody Seal on Cooler/Box Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Optional: Proj. Due Date: _____ Proj. Name: _____
Packing Material: <input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Thermom. Used: <input type="checkbox"/> B88A9130516413 <input type="checkbox"/> B88A912167504 <input checked="" type="checkbox"/> B88A9132521491	Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun	
Cooler Temp Read (°C): <u>4.5</u>	Cooler Temp Corrected (°C): <u>4.5</u>	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6°C	Correction Factor: <u>0.0</u>	Date and Initials of Person Examining Contents: <u>JP 4-29-14</u>

Question	Yes	No	N/A	Comments
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. <u>due 5-1-14</u>
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. <u>1 container on COC, 2 received</u>
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Not a Rush - Sday 8290

Project Manager Review: [Signature] Date: 4-30-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	IW-1		
Lab Sample ID	35135549001		
Filename	F140509B_05		
Injected By	CVS		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/25/2014 11:03
ICAL ID	F131125	Received	04/29/2014 08:50
CCal Filename(s)	F140509A_11 & F140509B_16	Extracted	05/06/2014 15:00
Method Blank ID	BLANK-40407	Analyzed	05/09/2014 20:16

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---- 0.0000030		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	---- 0.0000030		2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	---- 0.0000029		2,3,4,7,8-PeCDF-13C	2.00	65
Total TCDD	ND	---- 0.0000029		1,2,3,7,8-PeCDD-13C	2.00	69
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	---- 0.0000027		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	---- 0.0000030		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	---- 0.0000029		1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	---- 0.0000045		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	---- 0.0000045		1,2,3,4,6,7,8-HpCDF-13C	2.00	87
				1,2,3,4,7,8,9-HpCDF-13C	2.00	88
1,2,3,4,7,8-HxCDF	ND	---- 0.0000023		1,2,3,4,6,7,8-HpCDD-13C	2.00	106
1,2,3,6,7,8-HxCDF	ND	---- 0.0000021		OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	---- 0.0000019				
1,2,3,7,8,9-HxCDF	0.0000030	---- 0.0000026	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.0000030	---- 0.0000022	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---- 0.0000037		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND	---- 0.0000036				
1,2,3,7,8,9-HxCDD	ND	---- 0.0000033				
Total HxCDD	ND	---- 0.0000036				
1,2,3,4,6,7,8-HpCDF	0.0000033	---- 0.0000023	BJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---- 0.0000030		Equivalence: 0.0000056 ug/L		
Total HpCDF	0.0000033	---- 0.0000027	BJ	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	ND	---- 0.0000028				
Total HpCDD	ND	---- 0.0000028				
OCDF	ND	---- 0.0000047				
OCDD	ND	---- 0.0000046				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-40407	Matrix	Water
Filename	U140508B_05	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/06/2014 15:00
ICAL ID	U140322	Analyzed	05/08/2014 17:35
CCal Filename(s)	U140508B_01 & U140508B_16	Injected By	SMT

Native Isomers	Conc ug/L	EMPC ug/L	RL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.00000095	----0.00000076	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.00000095	----0.00000076	J	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	ND	----0.00000096		2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	ND	----0.00000096		1,2,3,7,8-PeCDD-13C	2.00	99
				1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	ND	----0.00000053		1,2,3,6,7,8-HxCDF-13C	2.00	107
2,3,4,7,8-PeCDF	--0.00000047	0.00000039	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	109
Total PeCDF	ND	----0.00000046		1,2,3,7,8,9-HxCDF-13C	2.00	104
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	----0.00000051		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	----0.00000051		1,2,3,4,6,7,8-HpCDF-13C	2.00	83
				1,2,3,4,7,8,9-HpCDF-13C	2.00	96
1,2,3,4,7,8-HxCDF	ND	----0.00000039		1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	ND	----0.00000036		OCDD-13C	4.00	107
2,3,4,6,7,8-HxCDF	ND	----0.00000039				
1,2,3,7,8,9-HxCDF	ND	----0.00000042		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----0.00000039		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----0.00000057		2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	----0.00000047				
1,2,3,7,8,9-HxCDD	ND	----0.00000044				
Total HxCDD	ND	----0.00000049				
1,2,3,4,6,7,8-HpCDF	0.00000051	----0.00000043	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----0.00000051		Equivalence: 0.0000011 ug/L		
Total HpCDF	0.00000051	----0.00000047	J	(Using 2005 WHO Factors - Using PRL/2 where ND)		
1,2,3,4,6,7,8-HpCDD	--0.00000074	0.00000062	IJ			
Total HpCDD	0.00000110	----0.00000062	J			
OCDF	--0.00000093	0.00000079	IJ			
OCDD	0.00000290	----0.00000100	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

J = Estimated value

I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-40408	Matrix	Water
Filename	U140508B_02	Dilution	NA
Total Amount Extracted	991 mL	Extracted	05/06/2014 15:00
ICAL ID	U140322	Analyzed	05/08/2014 15:21
CCal Filename(s)	U140508B_01 & U140508B_16	Injected By	SMT
Method Blank ID	BLANK-40407		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	111	2,3,7,8-TCDF-13C	2.0	72
Total TCDF				2,3,7,8-TCDD-13C	2.0	77
				1,2,3,7,8-PeCDF-13C	2.0	83
2,3,7,8-TCDD	0.20	0.19	97	2,3,4,7,8-PeCDF-13C	2.0	83
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	85
				1,2,3,4,7,8-HxCDF-13C	2.0	90
1,2,3,7,8-PeCDF	1.0	1.1	112	1,2,3,6,7,8-HxCDF-13C	2.0	95
2,3,4,7,8-PeCDF	1.0	1.1	110	2,3,4,6,7,8-HxCDF-13C	2.0	94
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	89
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	74
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	74
				1,2,3,4,7,8,9-HpCDF-13C	2.0	81
1,2,3,4,7,8-HxCDF	1.0	1.1	109	1,2,3,4,6,7,8-HpCDD-13C	2.0	81
1,2,3,6,7,8-HxCDF	1.0	1.1	107	OCDD-13C	4.0	88
2,3,4,6,7,8-HxCDF	1.0	1.1	105			
1,2,3,7,8,9-HxCDF	1.0	1.1	113	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	110	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	1.0	1.2	120			
1,2,3,7,8,9-HxCDD	1.0	1.2	118			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.00	100			
Total HpCDD						
OCDF	2.0	2.5	123			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-40409	Matrix	Water
Filename	U140508B_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	05/06/2014 15:00
ICAL ID	U140322	Analyzed	05/08/2014 16:05
CCal Filename(s)	U140508B_01 & U140508B_16	Injected By	SMT
Method Blank ID	BLANK-40407		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	114	2,3,7,8-TCDF-13C	2.0	70
Total TCDF				2,3,7,8-TCDD-13C	2.0	74
				1,2,3,7,8-PeCDF-13C	2.0	81
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.0	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	82
				1,2,3,4,7,8-HxCDF-13C	2.0	90
1,2,3,7,8-PeCDF	1.0	1.1	113	1,2,3,6,7,8-HxCDF-13C	2.0	99
2,3,4,7,8-PeCDF	1.0	1.1	113	2,3,4,6,7,8-HxCDF-13C	2.0	99
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	92
				1,2,3,4,7,8-HxCDD-13C	2.0	85
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	76
				1,2,3,4,7,8,9-HpCDF-13C	2.0	84
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	77
1,2,3,6,7,8-HxCDF	1.0	1.1	107	OCDD-13C	4.0	85
2,3,4,6,7,8-HxCDF	1.0	1.1	105			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	107	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	1.0	1.3	128			
1,2,3,7,8,9-HxCDD	1.0	1.2	116			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	112			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	103			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.0	104			
Total HpCDD						
OCDF	2.0	2.5	125			
OCDD	2.0	2.3	115			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client PASI Florida

Spike 1 ID LCS-40408
Spike 1 Filename U140508B_02

Spike 2 ID LCSD-40409
Spike 2 Filename U140508B_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	111	114	2.7
2,3,7,8-TCDD	97	104	7.0
1,2,3,7,8-PeCDF	112	113	0.9
2,3,4,7,8-PeCDF	110	113	2.7
1,2,3,7,8-PeCDD	95	97	2.1
1,2,3,4,7,8-HxCDF	109	113	3.6
1,2,3,6,7,8-HxCDF	107	107	0.0
2,3,4,6,7,8-HxCDF	105	105	0.0
1,2,3,7,8,9-HxCDF	113	112	0.9
1,2,3,4,7,8-HxCDD	110	107	2.8
1,2,3,6,7,8-HxCDD	120	128	6.5
1,2,3,7,8,9-HxCDD	118	116	1.7
1,2,3,4,6,7,8-HpCDF	109	112	2.7
1,2,3,4,7,8,9-HpCDF	105	103	1.9
1,2,3,4,6,7,8-HpCDD	100	104	3.9
OCDF	123	125	1.6
OCDD	112	115	2.6

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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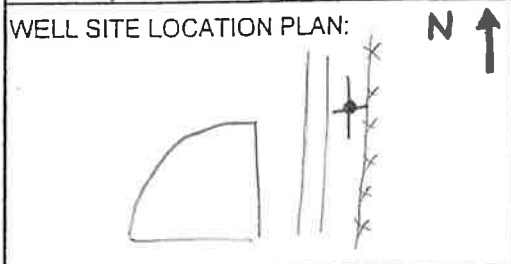
Appendix H

Methane Gas Probe Construction Logs

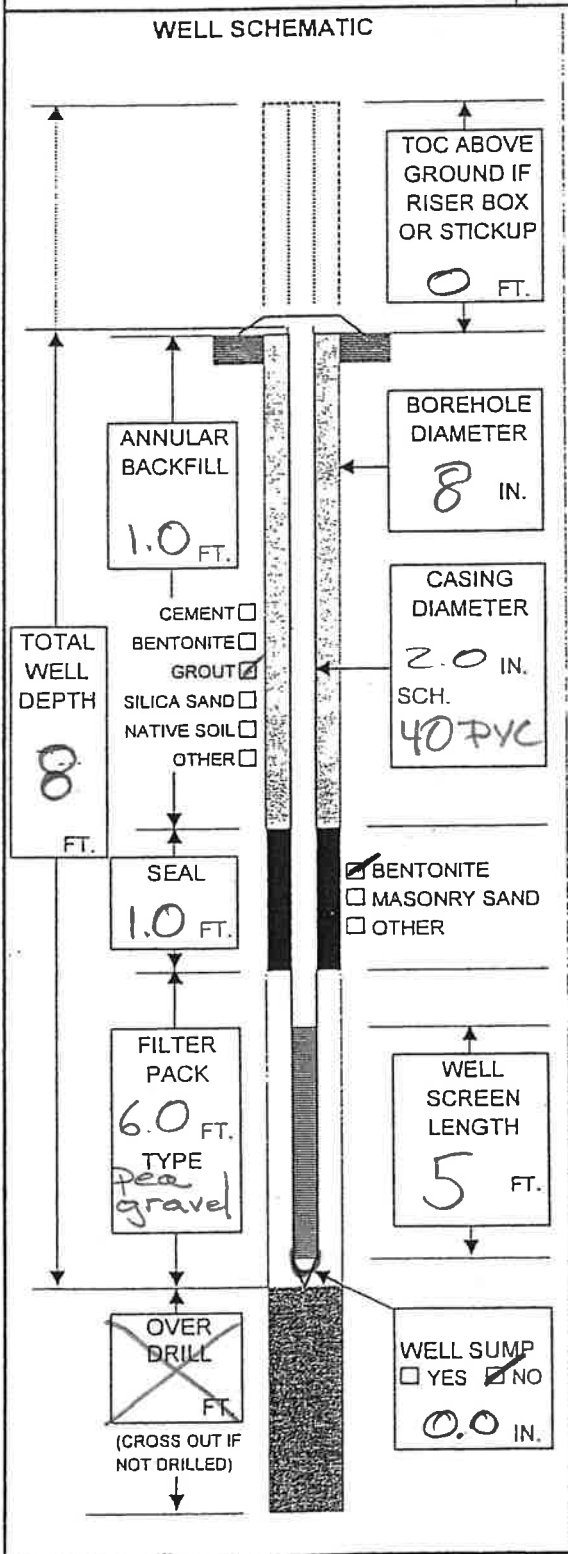
WELL CONSTRUCTION DATA

WELL/BORING NO: MP-1
 PERMIT NO: _____

DATE: 4-25-14 PROJECT NAME: DOUGLAS PARK PROJECT NO: _____



SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____
 DRILLING CO: Enviro-Drill Inc
 DRILL CREW: John + Alex
 WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER Methane Probe



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER 0.060 IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER Rotary Auger

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO. _____
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED NUMBER OF DRUMS _____
 SPREAD OTHER _____

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____
 TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER _____ GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR
 EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED NUMBER OF DRUMS _____
 SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL _____ FT BTOC BLS
 DATE: _____ FT BELOW TOC
 DATE: _____ FT BELOW TOC

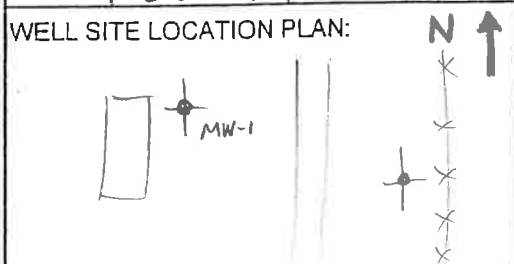
NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

PREPARED BY: Favel

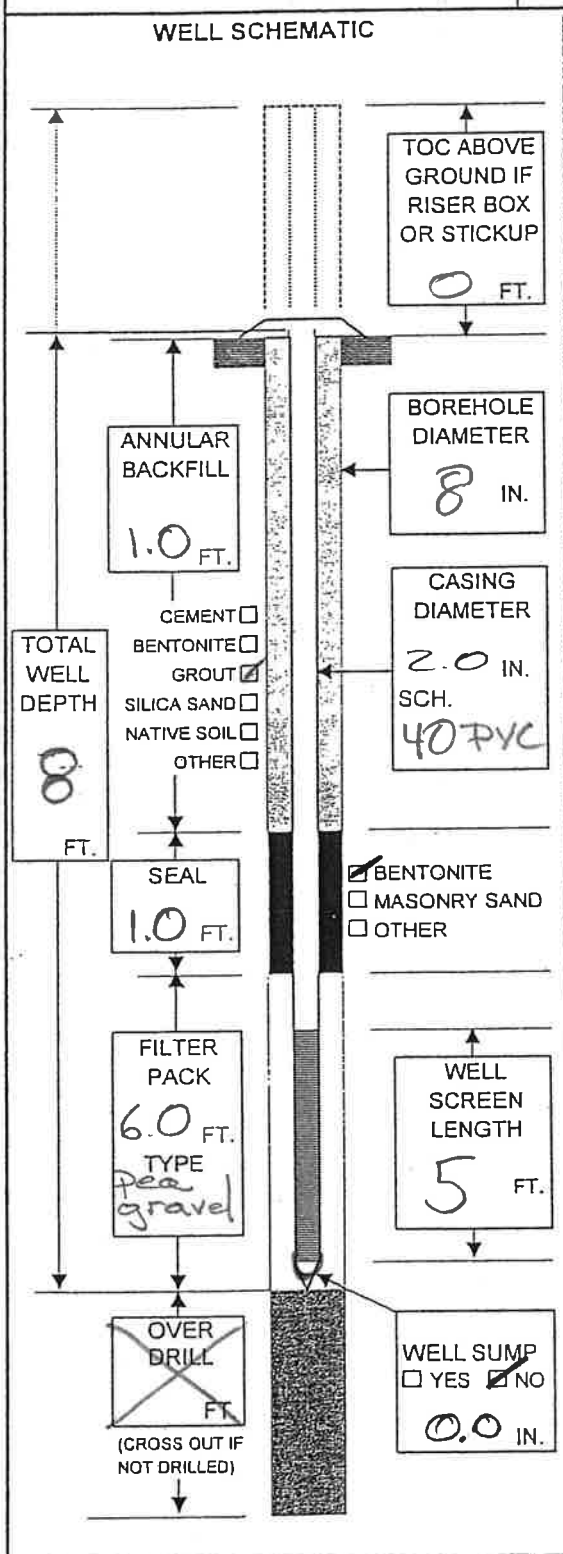
WELL CONSTRUCTION DATA

WELL/BORING NO: **MP-2**
 PERMIT NO: _____

DATE: **4-25-14** PROJECT NAME: **DOUGLAS PARK** PROJECT NO: _____



SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____
 DRILLING CO: **Enviro-Drill Inc**
 DRILL CREW: **John + Alex**
 WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER **Methane Probe**



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER **0.060** IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER **Rotary Auger**

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO. _____
 OTHER _____

PAD: 2'x2' 4'x4' OTHER _____

CUTTINGS: DRUMMED NUMBER OF DRUMS _____
 SPREAD OTHER _____

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER _____ GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR
 EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED NUMBER OF DRUMS _____
 SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL _____ FT BTOC BLS

DATE: _____ FT BELOW TOC
 DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

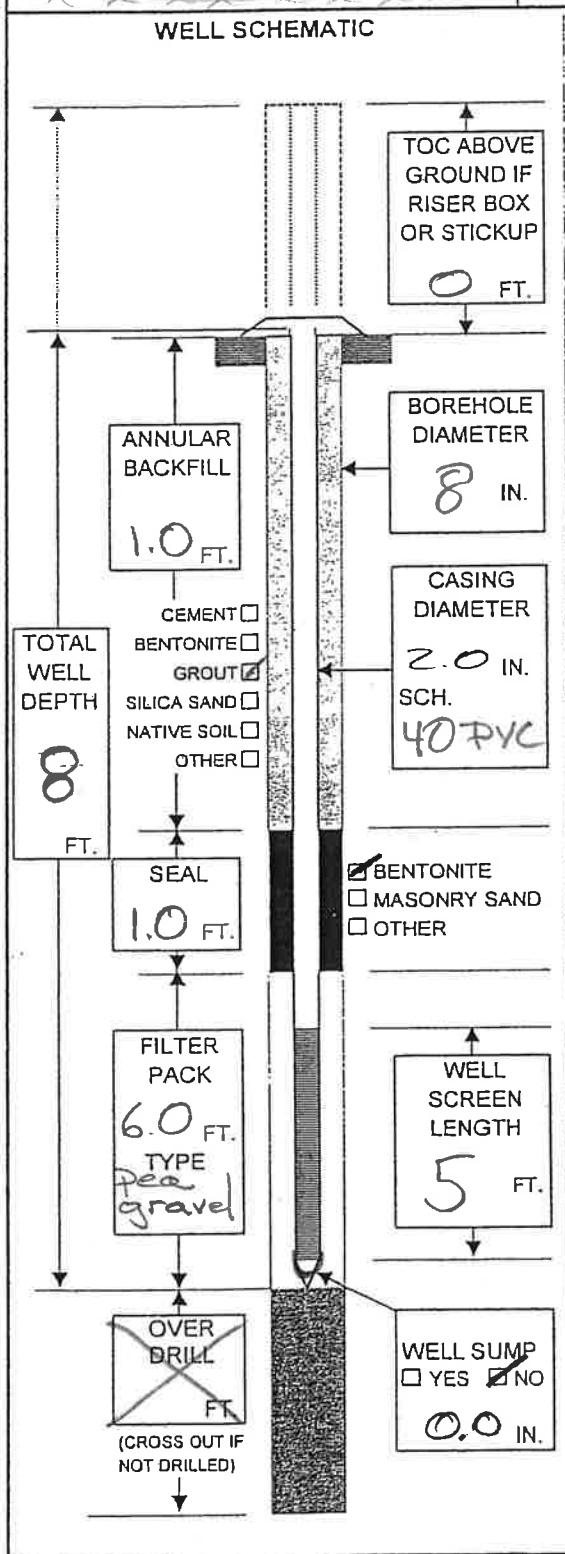
PREPARED BY: *[Signature]*

WELL CONSTRUCTION DATA

WELL/BORING NO: **MP-3**
 PERMIT NO: _____

DATE: **4-25-14** PROJECT NAME: **DOUGLAS PARK** PROJECT NO: _____

WELL SITE LOCATION PLAN: **N** ↑
 SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____
 DRILLING CO: **Enviro-Drill Inc**
 DRILL CREW: **John + Alex**
 WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER **Methane Probe**



INSTALLATION DATA

DECON: STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER **0.060** IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER **Rotary Auger**

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO. _____
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED NUMBER OF DRUMS _____
 SPREAD OTHER _____

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER _____ GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR
 EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED NUMBER OF DRUMS _____
 SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL _____ FT BTOC BLS

DATE: _____ FT BELOW TOC
 DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)


Par...

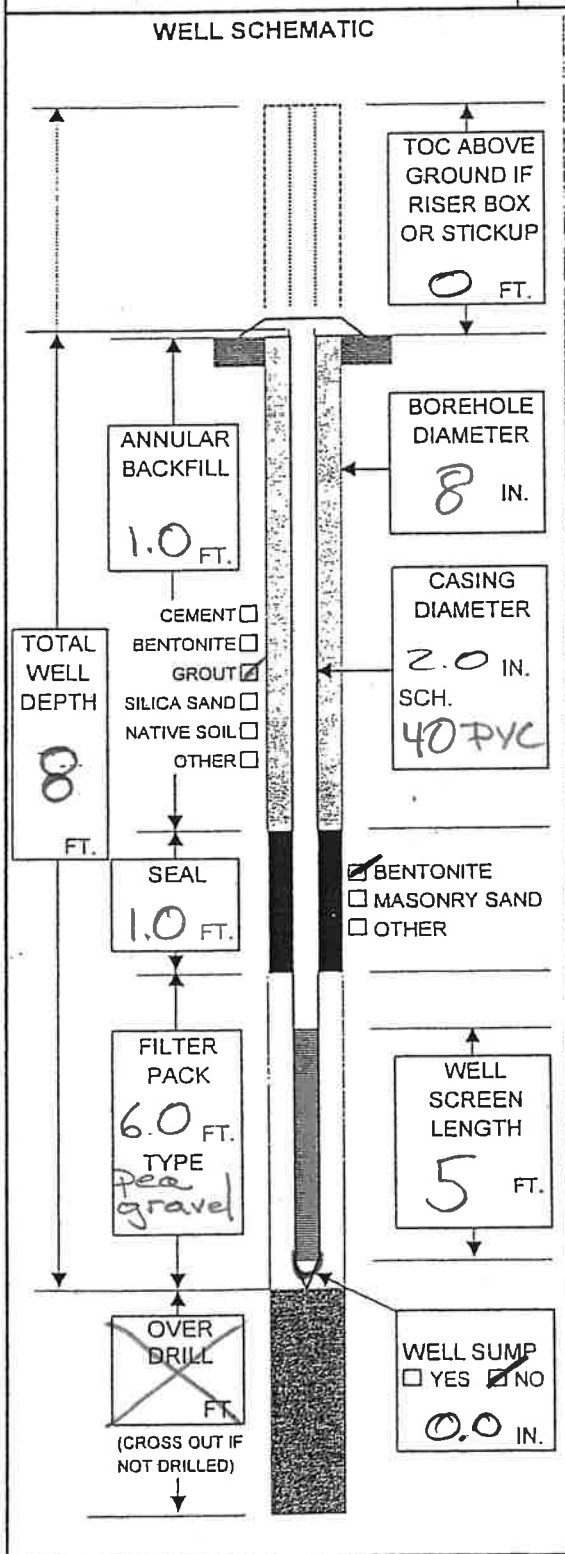
PREPARED BY: _____

WELL CONSTRUCTION DATA

WELL/BORING NO: **MP-4**
 PERMIT NO: _____

DATE: **4-25-14** PROJECT NAME: **DOUGLAS PARK** PROJECT NO: _____

WELL SITE LOCATION PLAN: **N** ↑

 SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____
 DRILLING CO: **Enviro-Drill Inc**
 DRILL CREW: **John + Alex**
 WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER **Methane Probe**



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER **0.060** IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER **Rotary Auger**

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO. _____
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED NUMBER OF DRUMS _____
 SPREAD OTHER _____

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER _____ GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR

EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED NUMBER OF DRUMS _____
 SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL _____ FT BTOC BLS

DATE: _____ FT BELOW TOC
 DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)


[Signature]

PREPARED BY: _____

WELL CONSTRUCTION DATA

WELL/BORING NO: **MP-5**
 PERMIT NO: _____

DATE: **4-25-14** PROJECT NAME: **DOUGLAS PARK** PROJECT NO: _____

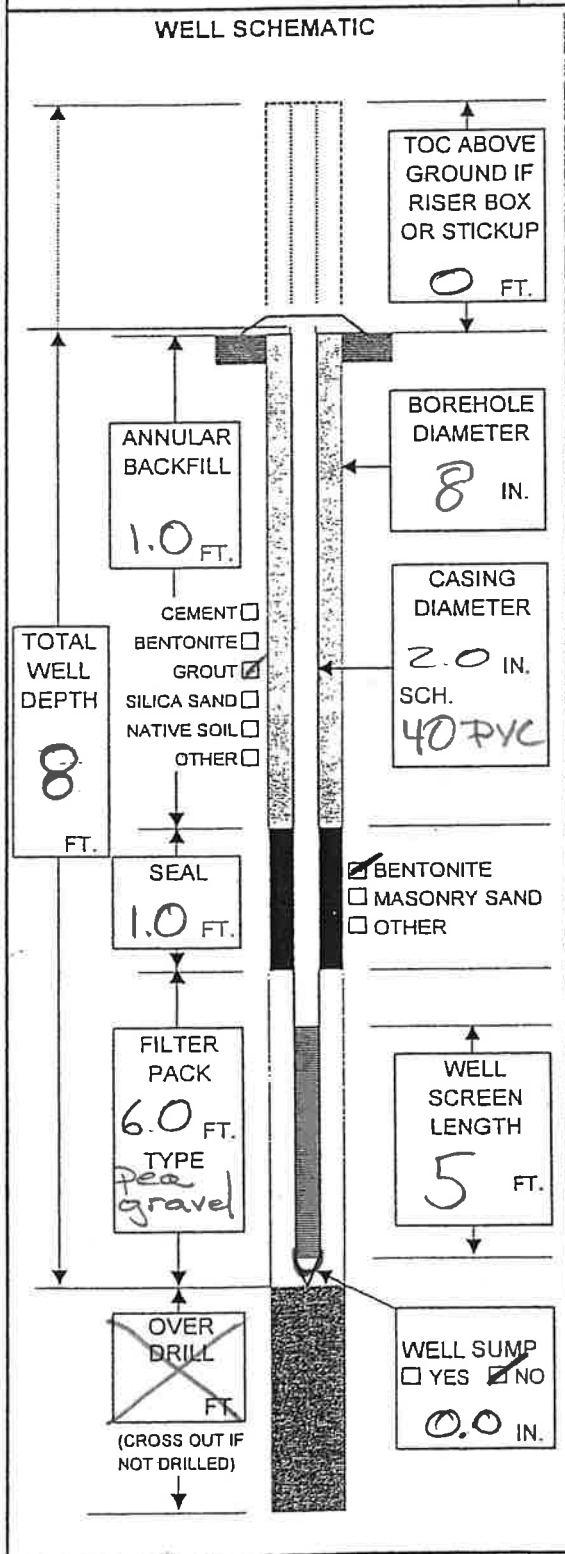
WELL SITE LOCATION PLAN:  **N** ↑

SEC: _____ TWN: _____ RGE: _____ LAT: _____ LONG: _____

DRILLING CO: **Enviro-Drill Inc**

DRILL CREW: **John + Alex**

WELL TYPE: SHALLOW SINGLE CASED MONITORING
 PERMANENT INTERMEDIATE DOUBLE CASED RECOVERY
 TEMPORARY DEEP OTHER **Methane Probe**



INSTALLATION DATA

DECON. STEAM CLEAN HIGH PRESSURE WASH
 SOAP WASH OTHER _____

CASING TYPE: PVC STAINLESS TEFLON OTHER
 JOINTS: THREADED WELDED COUPLED
 SCREWED OTHER _____

PIT CASING: YES NO DESCRIBE _____

WELL SCREEN: PVC STAINLESS TEFLON OTHER
 DIAMETER: 2" 4" 6" OTHER _____ IN
 SLOT: 0.010 0.020 OTHER **0.060** IN

DRILLING METHOD: SOLID STEM HOLLOW STEM MUD ROTARY
 AIR ROTARY DIRECT PUSH HAND AUGER
 OTHER **Rotary Auger**

BIT SIZE: 2" 4" 6" 8" 12" OTHER _____ IN

DRILLING MUD: NONE WATER BENTONITE
 OTHER _____

CENTRALIZER: YES NO

COMPLETION: FLUSH MOUNT STICKUP RISER BOX
 LOCK TYPE: DOLPHIN MASTER KEY NO. _____
 OTHER _____

PAD: 2'X2' 4'X4' OTHER _____

CUTTINGS: DRUMMED NUMBER OF DRUMS _____
 SPREAD OTHER _____

DEVELOPMENT METHOD: NONE BAILING PUMPING AIR LIFT
 SURGE & BLOCK OTHER _____

TIME: 30 MIN 60 MIN OTHER _____ Hours
 AMOUNT: 5 GAL 10 GAL OTHER _____ GAL

WATER BEFORE: SILTY TURBID OPAQUE CLEAR
 WATER AFTER: SILTY TURBID OPAQUE CLEAR

EVIDENT ODOR: YES NO TYPE _____

DEVELOPMENT WATER: DRUMMED NUMBER OF DRUMS _____
 SPREAD TREATED POTW OTHER _____

WATER LEVEL: INITIAL _____ FT BTOC BLS

DATE: _____ FT BELOW TOC
 DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

Prepared by: [Signature]

PREPARED BY: _____

