February 9, 2017

# St.Germain - Collins

Chris Evans Maine Department of Environmental Protection 17 State House Station Augusta, Maine 04333

Re: Remedial Action Report FairPoint Communications Utility Pole Storage Area 11 Mallet Park Road, Brunswick, Maine St.Germain Collins File No.: 3947

Dear Chris:

On behalf of FairPoint Communications (FairPoint), St.Germain Collins is submitting this Remedial Action Report for the above-referenced facility (Site) located in Brunswick, Maine (see Figure 1, Site Location Map). This report documents the removal of contaminated soil, and confirmation sampling of the utility pole storage area and debris pile located east of the Site building. The soil remediation was completed in accordance with St.Germain Collins' Remedial Action Plan (RAP) dated August 10, 2016.

#### BACKGROUND

The Site is located at 11 Mallet Park Road in Brunswick, Maine. It has been used for vehicle, and utility pole storage by telephone/communications companies since at least 1975. The 4.64-acre Site is occupied by a 27,000 square-foot building built in 1974, with paved access ways and storage areas surrounding it.

The Site is currently served by public water and sewer. Utility poles were stored east of the Site building (see Figure 2, Site Plan) on four cribs. Utility pole debris was stored at the far southern end of the cribs.

#### **CONCEPTUAL SITE MODEL**

A conceptual site model (CSM) was presented in the above referenced RAP. The purpose of the CSM is to summarize the nature and extent of known or suspected contaminants, potential contaminant pathways, and whether contaminant levels combined with potential pathways represent a risk to human health and/or the environment. Based upon the CSM, the most effective remedial action was determined to be removal of contaminant impacted soil.

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WHEN IT COUNTS

## Hydrogeologic Setting

The Site is located on relatively level land on the west side of the New Meadows River. Surface water flow from the pole storage areas either infiltrates the ground or sheet flows towards the northern property boundary, and discharges to an unnamed pond through a culvert below the northern access road. The pond discharges into an unnamed stream which eventually flows to Thomas Bay to the south.

According to the Maine Geological Survey (MGS), the Site is located within a sand and gravel aquifer with moderate to good potential groundwater yield (see MGS Open File 99-18). The MGS Surficial Geology map of the Brunswick Quadrangle (see MGS Open File 01-485) indicates that unconsolidated materials beneath the Site consist primarily of coarse sand deposits. This is consistent with observations made in the field during soil removal activities. The MGS Bedrock Geology map for the Bath Quadrangle (see MGS Open File 78-16) indicates that the Site is underlain by plagioclase quartz biotite metamorphic rocks.

Based on topography and geology, overburden groundwater flow is likely to the northwest towards the unnamed pond and stream. Shallow bedrock groundwater likely follows along a similar path but it could be variable due to bedrock fractures.

#### **Contaminants of Concern**

Based upon our previous experience with pole yard remediation, St.Germain Collins selected pentachlorophenol (PCP), dioxin (a byproduct of PCP production), metals (chromium, copper, and arsenic (CCA)), and polycyclic aromatic hydrocarbons (PAHs) as the primary contaminants of concern (COC) for determining if remedial actions are complete.

#### **Potential Exposure Pathways and Cleanup Standards**

The primary potential release mechanism for the COC is the dripping of preservatives from the utility poles onto the ground surface during storage. A secondary release mechanism is through the mixing of utility pole fragments with the soil in the utility pole debris storage area.

The COC are minimally soluble in water. Furthermore, the area is served by public water. Therefore, groundwater ingestion is not considered a potential exposure pathway. The COC are not particularly volatile either, and therefore inhalation of vapors is not considered a potential exposure pathway.

Since the COC tend to bind with soil and organic material, potential exposure pathways consist of ingestion, inhalation of particles, or dermal contact of soil and organic material. This exposure could occur with the soil and organic material beneath the utility pole storage areas and the utility pole debris pile.

The Site has been used for commercial purposes since constructed in 1974, and would presumably be used as such in the future; however FairPoint is committed to remediating the Site to the 2016 Maine Department of Environmental Protection (MEDEP) Residential Remedial Action Guidelines (RAGs), or background conditions to the extent possible.

### **Background Conditions**

St.Germain Collins collected three background samples (B-1, B-2, and B-3) of surface soil in areas of the Site where utility poles and utility pole debris were not stored. The samples were collected using Incremental Sampling Methodology (ISM). See Figure 2 for background sample locations. These background samples were submitted for laboratory analysis of CCA and PAHs since arsenic in Maine soil can occur at naturally high levels, and because urban activities (e.g., vehicle exhaust, asphalt, and oil drips) can deposit PAHs along roadsides and land with a history of commercial/industrial use. Chromium and copper were also included to document their naturally occurring levels. Analytical methods, detection limits, quality control/quality assurance data, and laboratory results are presented in Attachment A, Laboratory Reports.

#### **REMEDIAL ACTIONS**

The following information is a summary of the remediation and sampling methods as presented in the previously referenced RAP.

#### Soil Excavation

Between October 11, 2016 and October 28, 2016, soil excavation activities were conducted by Allstate Environmental Services (AES) of Gorham, Maine, a subcontractor to Granite Environmental of Rockport, Massachusetts, under the supervision of St.Germain Collins. Based on our experience at other utility pole yard remediation sites, 2 feet of soil was initially removed from beneath and around the utility pole cribs and utility pole debris pile covering an area about 345 feet by 30 feet. The soil was live-loaded into trucks and shipped to CPRC Group of Scarborough, Maine for recycling. A second phase of soil removal was completed after reviewing the results of the initial round of excavation screening samples (ESS). Approximately 3,047 tons of soil were removed and shipped to CPRC Group of Scarborough, Maine for recycling. Soil Shipment Documentation is provided as Attachment B.

#### **Site Restoration**

After receiving notice from the MEDEP that the remediation was acceptable, the excavation was backfilled to grade and the disturbed area was restored to its original ground cover type/condition.

#### **Confirmatory Sampling Procedures within Remedial Actions and Analytical Methods**

Two types of confirmation samples were collected. The first type was collected after the initial soil removal, and consisted of ESS samples which were collected following a simple compositing method. The ESS samples were analyzed for dioxin by Cape Technologies, Inc. in South Portland, Maine (Cape Tech) using EPA Method 4025M. This methodology allows a relatively inexpensive evaluation of whether the soil excavation is likely to meet the cleanup requirements prior to the more costly final confirmation sampling.

The second type of confirmation samples were collected after all ESS sample results were below the Residential RAG indicating that soil removal was complete. The second type of confirmation sample was collected in accordance with the Interstate Regulatory and Technology Council's (ITRC) guidance document on Incremental Sampling Methodology (ISM), and described in detail in the RAP. These ISM samples were analyzed for dioxin using EPA Method 8290 by Pace Laboratory in Minneapolis, Minnesota (Pace). PCP was analyzed using EPA Method 8270 and CCA using EPA Method 6010 by Absolute Resources of Portsmouth, New Hampshire (Absolute).

Upon completion of each phase the soil removal, a sampling grid was superimposed over the bottom of the utility pole crib and utility pole debris pile excavation to be used for both ESS and ISM samples, see Figure 3, Confirmation Sample Locations. The number of increments and how they were combined to make sample units (SU) is consistent with the RAP.

Based on the pole crib excavation dimensions of approximately 185 feet by 24 feet (the sampling grid for this area consisted of three rows (oriented approximately north-south) with nineteen 8 foot by 10 foot grid cells in each row. The sidewall sampling grid consists of contiguous 10-foot (horizontal) by at least 2-foot (vertical) cells along each side. The utility debris pile was irregularly-shaped and the specific grid size and layout are shown on Figure 3, which is consistent with ISM.

The only significant deviation from the RAP is that both ESS and ISM samples were collected utilizing the United States Army Corps of Engineers, Cold Regions Research and Engineering Laboratory Multi-Increment Sampling Tool (CMIST). The CMIST was designed specifically for the collection of ISM samples; it ensures that all increments are uniform in volume, diameter, and depth. The CMIST was decontaminated after each ISM sample was collected following the MEDEP Standard Operating Procedure (SOP) number RWM-DR-017, Equipment Decontamination Protocol.

#### RESULTS

#### **Quality Assurance/Quality Control**

The laboratory reports in Attachment A include a discussion of the internal quality assurance/quality control (QA/QC) data by the analytical laboratory. Other than a few instances when surrogate recoveries were outside the acceptable range and some

qualifiers were necessary due to matrix interference, the laboratory concluded that the data are of acceptable quality, and confirmed its usability.

Duplicate and other QA/QC samples were not collected since ISM represents a very thorough and statistically valid method for soil sampling. The abundant number of grabs ensures that the SU samples are representative. Furthermore, Absolute and Pace provide extensive QA/QC control packages with each report, documenting their internal standards and spike results.

#### **Background Data**

Data from the three background samples (B-1, B-2, and B-3) is compared to the MEDEP Residential RAG, the MEDEP Urban Developed Background, Undeveloped Maine Background, Maine Urban Fill Background, and was used to develop a Site specific background concentration. The background data is summarized in the Table 1, Soil Sample Data.

Arsenic was detected above the Residential RAG in each sample but below the MEDEP Undeveloped Maine Background level of 16 milligrams per kilogram (mg/kg). The average arsenic concentration for the background samples was 8 mg/kg. Chromium and copper were below the Residential RAGs.

Four PAHs (benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene) were reported present in one background sample (B-3) below their Residential RAGs.

#### **Excavation Screening Samples (ESS) Data**

All the ESS samples were reported with dioxin levels below the 100 nanogram per kilogram (ng/kg) Residential RAG except for five sidewall samples, and one bottom sample with concentrations ranging from of 101 to 263 ng/kg. Based upon these results, and additional four feet of soil was removed along the sidewalls and an additional foot of soil was removed from the bottom in those areas exceeding the Residential RAG. After the additional soil was removed, additional ESS samples were collected. Once all ESS sample results were below the 100 ng/kg, final confirmatory sampling was completed. The areas of additional soil removal based upon the ESS sampling is shown on Figure 3. Excluding those six results, the average dioxin level of the excavation bottom and sidewalls was 37 ng/kg. The dioxin results from the ESS sampling are provided in Attachment C, Excavation Screening Sample Data.

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#### Incremental Sample Methodology (ISM) Data

A total of 27 ISM samples were collected (SU-1-1 through SU-9-3). Each SU sample consisted of 30 aliquots, and each was collected in triplicate following the RAP. Dioxin was reported in each replicate for each SU with concentrations ranging from 0.28 to 41 ng/kg. The average dioxin level for all SU replicates was 9 ng/kg, well below the Residential RAG and the higher ESS average of 37 ng/kg.

Arsenic concentrations exceeded the Residential RAG for all SU replicates; however, all were below the Undeveloped Maine Background concentration of 16 mg/kg. The average arsenic concentration for all SU replicates was 3.04 mg/kg which is below the 8 mg/kg average for the Site background samples. Chromium and copper concentratios were all below the Residential RAGs.

PCP was not reported present in any of the ISM samples.

PAHs were detected in one SU sample set of replicates (SU-9-1, SU-9-2, and SU-9-3) with many of the parameters and concentrations similar to those detected in the background samples. PAH concentrations were generally consistent with Background concentrations, and below their respective residential RAGs.

Table 1, summarizes the results of the incremental sampling of the final excavation bottom and sidewalls.

#### Data Use

The SU samples (bottom and sidewall) generated from the utility pole cribs and utility pole debris pile were combined together to make a Decision Unit (DU) for ISM statistical analysis. The basis for creating two SU samples each from the bottom and sidewalls was to aid in the location of potential RAG or Background exceedances, which did not occur at this Site. To further evaluate the data, St.Germain Collins followed ITRC guidance by using the SU triplicate results, and combining them into DUs to calculate the 95% Upper Confidence Limit (UCL95) of the mean concentration of each of the two contaminants (dioxin and arsenic) in the utility pole crib and utility debris pile.

To summarize the method, if at least 30 discrete samples are collected per SU (or DU) and in triplicate, the UCL95 of the mean is a statistically valid prediction of the highest likely mean concentration for that DU. ITRC provides a spreadsheet that calculates the UCL95 using the appropriate statistical method based on the data distribution and size of the DUs. Attachment C, UCL95 Calculations, presents the assumptions and results of the calculations in spreadsheet format. The resulting statistics were evaluated using the following decision matrix, and are summarized in the following tables.

	DECISION MATRIX FOR INCREMENTAL SAMPLE RESULTS													
Mean DU Result	UCL 95	CV	Decision	Notes										
Below RAG	Below	Low	No further action											
Below RAG	Below	Medium	No further action											
Below RAG	Below	High	No further action											
Below RAG	Above	Low	No further action											
Below RAG	Above	Medium	Further action needed	Additional sampling or soil excavation may occur.										
Below RAG	Above	High	Further action needed	Additional sampling or soil excavation may occur.										
Above RAG	NA	NA	Further action needed	In all scenarios, if the DU mean is above the RAG additional soil will be removed.										

	COMPARISON OF DU DIOXIN RESULTS														
Decision Unit	DU Mean Result	UCL 95	CV	Comparison to the RAG (100 ppt)	Decision based upon the Matrix										
DU-1	5.6	22.2	High	Below	No further action										
DU-2	2.8	5.9	Medium	Below	No further action										
DU-3	33	44.8	Low	Below	No further action										
DU-4	4.2	6.6	Medium	Below	No further action										
DU-5	3.0	6.3	High	Below	No further action										
DU-6	10.9	15.2	Medium	Below	No further action										

		COMP	ARISON	OF DU ARSENIC R	ESULTS	
Decision Unit	DU Mean Result	UCL 95	CV	Comparison to Site Background (8.4 ppm)*	Comparison to the RAG (1.4 ppm)	Decision based upon the Matrix
DU-1	ND (2.5)	NC	NA	Below	Above**	No further action
DU-2	2.5**	NC	NA	Below	Above***	No further action
DU-3	2.9	3.1	Low	Below	Above	No further action
DU-4	3.2	3.5	Low	Below	Above	No further action
DU-5	ND (2.5)	NC	NA	Below	Above**	No further action
DU-6	ND (2.5)	NC	NA	Below	Above**	No further action

Notes:

RAG = Remedial Action Guideline

ppt = parts per trillion

ppm = parts per million

\* Site background concentration is the average of the three ISM samples from background locations on the Site

\*\* The laboratory reporting limit is above the arsenic RAG

\*\*\* One of the triplicates had arsenic detected above the laboratory reporting limit

ND (2.5) = Not detected above the associated laboratory reporting

NC = Not calculated

UCL 95 = 95% Upper Confidence Limit as defined by ITRC ISM Guidance

CV = Coefficient of Variability as defined by ITRC ISM Guidance

NA = Not Applicable

NFA = No Further Action

No ISM sample (DU or SU) results exceeded the MEDEP Residential RAGs or background, and based upon the scenarios provided in the table above, no further action is needed.

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#### FINDINGS AND CONCLUSIONS

St.Germain Collins supervised the excavation of approximately 3,047 tons of soil contaminated by utility pole preservatives at the FairPoint facility in Brunswick, Maine. The COC were dioxin, CCA, PCP, and PAHs. Confirmatory samples were collected from the excavation bottom and sidewalls using the ITRC incremental sampling method. The results are as follows:

- Dioxin concentrations are now below the Residential RAG.
- Arsenic concentrations are above the Residential RAGs, but below the Site Background and Maine Undeveloped Background concentrations. Chromium and copper are below the Residential RAGs and close to background concentrations.
- PCP was not detected in any of the ISM samples.
- The PAHs detected were below the Residential RAGs.

Based upon the above findings, St.Germain Collins concludes that no further remediation is necessary.

If you have any questions or comments, please feel free to contact us at 207-591-7000.

Sincerely, ST.GERMAIN COLLINS

Frian Bachmann

Brian Bachmann, C.G Geologist

cc: Scott Allocca, Fairpoint Communications

Figure 2 Site Plan

- Figure 3 Confirmation Sample Locations
- Table 1Soil Sample Data
- Attachment A Laboratory Reports
- Attachment B Soil Shipment Documentation
- Attachment C Excavation Screening Sample Data
- Attachment D UCL95 Calculations











#### Table 1 Soil Sample Data FairPoint Facility 11 Mallet Park Road Brunswick, Maine

Sample:	SU-1-1	SU-1-2	SU-1-3	SU-2-1	SU-2-2	SU-2-3	SU-9-1	SU-9-2	SU-9-3	SU-3-1	SU-3-2	SU-3-3	SU-5-1	SU-5-2	SU-5-3	SU-7-1	SU-7-2	SU-7-3	SU-8-1	SU-8-2	SU-8-3	SU-6-1	SU-6-2	SU-6-3	SU-4-1	SU-4-2	SU-4-3	B-1	B-2	B-3		
Date:	10/26/16	10/26/16	10/26/16	10/26/16	10/26/16	10/26/16	10/28/16	10/28/16	10/28/16	10/26/16	10/26/16	10/26/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/26/16	10/26/16	10/26/16	10/13/16	10/13/16	10/13/16	MEDE	-Р
Location:	Debris	Pile Botton	n (DU-1)	Debris P	ile Sidewa	lls (DU-2)	Debris F	vile Sidewa	lls (DU-3)		P	ole Crib Si	dewall (DU-	-4)			Р	ole Crib Sid	dewall (DU-	-5)			Р	ole Crib B	ottom (DU-	6)		E	Backgroun	ł	RRAGs	UDB
Dioxin TEQ (ng/kg)	3.4	13	0.28	2.5	1.8	4.2	28	30	41	7.6	5.6	5.1	4.4	1.9	2.3	1.5	0.46	0.38	7.2	2.3	6.0	5.3	11	8.0	13	13	16				100	NA
Metals																																
Arsenic	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	2.5	2.9	2.7	3.0	3.4	3.2	2.7	3.2	3.4	3.4	ND (2.5)	ND (2.4)	ND (2.5)	ND (2.5)	ND (2.4)	ND (2.5)	ND (2.3)	ND (2.4)	ND (2.5)	ND (2.4)	ND (2.4)	ND (2.3)	9.8	3.4	12	1.4	16*
Chromium	ND (9.8)	ND (10)	ND (9.8)	11	11	10	12	11	12	11	11	ND (9.8)	11	12	12	ND (9.8)	ND (9.6)	ND (9.8)	ND (10)	ND (9.6)	ND (10)	ND (9.3)	ND (9.6)	ND (10)	ND (9.4)	ND (9.6)	ND (9.3)	18	17	33	10,000	NA
Copper	ND (9.8)	ND (10)	ND (9.8)	ND (10)	ND (9.8)	ND (9.4)	ND (9.8)	ND (9.6)	ND (10)	ND (9.8)	ND (9.8)	ND (9.8)	ND (9.6)	10	ND (9.6)	ND (9.8)	ND (9.6)	ND (9.8)	ND (10)	ND (9.6)	ND (10)	ND (9.3)	ND (9.6)	ND (10)	ND (9.4)	ND (9.6)	ND (9.3)	11	10	18	2,400	NA
Pentachlorophenol	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	20	NA
Polycyclic aromatic hydro	carbons (P	AHs)																														
2-methylnaphthalene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	500 (	0.089
acenaphthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	7,500	0.2
acenaphthylene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	7,500	0.39
anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	10,000	0.4
benzo(a)anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15	ND (0.05)	0.11	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2.6	1.6
benzo(a)pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.15	ND (0.05)	0.1	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	1.7
benzo(b)fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.16	0.07	0.11	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.08	2.6	2
benzo(g,h,i)perylene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.11	ND (0.05)	0.07	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	3,700	0.79
benzo(k)fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.17	ND (0.05)	0.13	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	26	0.76
chrysene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.21	0.08	0.15	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.06	260	2.3
dibenzo(a,h)anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.05	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	0.23
dibenzofuran	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	130	NA
fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	0.08	0.23	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.06	5,000	3.2
fluorene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	5,000	0.29
indeno(1,2,3-cd)pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.09	ND (0.05)	0.06	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2.6	0.74
naphthalene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2,500	39*
phenanthrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.2	ND (0.05)	0.13	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	3,700	1.6
pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.27	0.09	0.22	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.07	3,700	2.8

Data in mg/kg unless noted otherwise.

NA = not available. NC = not calculated. ND = not detected above listed limit.

UCL95 = 95% Uppper Confidence Limit of the mean. 1&2 = UCL95 for combined Decision Units (DUs) 1 and 2. 3&4 = UCL95 for combined DUs 3 and 4.

MEDEP = Maine Department of Environmental Protection.

RRAGs = Residential Remedial Action Guidelines, 2016. Shading indicates exceedence of RRAG.

\* = Undeveloped Maine Background. Marked values below Undeveloped Maine Background.

UDB = Urban Developed Background, 2016. \*\* = value below UDB.

# ATTACHMENT A

# Laboratory Reports

# Laboratory Report

# Absolute Resource associates

124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann St.Germain & Associates, Inc. 846 Main St. Suite 3 Westbrook, ME 04092



PO Number: None Job ID: 38303 Date Received: 10/24/16

Project: FP Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely, Absolute Resource Associates

lluer (for)

Sue Sylvester Principal, General Manager

Date of Approval: 11/7/2016 Total number of pages: 6

#### Absolute Resource Associates Certifications

New Hampshire 1732 Maine NH903 Massachusetts M-NH902

# Project ID: FP Brunswick 3947

Job ID: 38303

Sample#: 38303-001

Sample ID: B-1

Matrix: Solid Percent Dry: 99.5% Results expressed on a dry weight basis.

Sampled: 10/13/16 10:15		Reporting		Instr Dil'n		Prep		Analy		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
Surrogate Recovery		Limits								
2-fluorophenol SUR	52	21-100	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
phenol-D5 SUR	49	10-102	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2,4,6-tribromophenol SUR	41	10-123	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
nitrobenzene-D5 SUR	49	35-114	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2-fluorobiphenyl SUR	51	43-116	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
p-terphenyl-D14 SUR	60	33-141	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D



# Project ID: FP Brunswick 3947

Job ID: 38303

Sample#: 38303-002

Sample ID: B-2

Matrix: Solid Percent Dry: 97.4% Results expressed on a dry weight basis.

Sampled: 10/13/16 10:45		Reporting		Instr Dil'n		Prep		Analy		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL <sup>·</sup>	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL <sup>·</sup>	10/26/16	9151	10/28/16	18:21	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL <sup>2</sup>	10/26/16	9151	10/28/16	18:21	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
Surrogate Recovery		Limits								
2-fluorophenol SUR	52	21-100	%	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
phenol-D5 SUR	50	10-102	%	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2,4,6-tribromophenol SUR	40	10-123	%	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
nitrobenzene-D5 SUR	49	35-114	%	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2-fluorobiphenyl SUR	51	43-116	%	1	CL ´	10/26/16	9151	10/28/16	18:21	SW3546/8270D
p-terphenyl-D14 SUR	61	33-141	%	1	CL <sup>·</sup>	10/26/16	9151	10/28/16	18:21	SW3546/8270D



# Project ID: FP Brunswick 3947

Job ID: 38303

Sample#: 38303-003

Sample ID: B-3

Matrix: Solid Percent Dry: 96.9% Results expressed on a dry weight basis.

Sampled: 10/13/16 11:15		Reporting		Instr Dil'n		Prep	Analysis			
Parameter	Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
fluoranthene	0.06	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
pyrene	0.07	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
chrysene	0.06	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(b)fluoranthene	0.08	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
Surrogate Recovery		Limits								
2-fluorophenol SUR	55	21-100	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
phenol-D5 SUR	54	10-102	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2,4,6-tribromophenol SUR	45	10-123	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
nitrobenzene-D5 SUR	51	35-114	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2-fluorobiphenyl SUR	55	43-116	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
p-terphenyl-D14 SUR	65	33-141	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D



Project ID: FI	P Brunswick 39	47									
<b>Job ID:</b> 38	3303										
Sample#:	38303-001										
Sample ID:	B-1										
Matrix:	Solid	Percent Dry: 99	9.5% Resul	ts expi	essed on	a dry	weight ba	sis.			
Sampled:	10/13/16 10:1	5	Reporting		Instr Dil'n		Prep		Analy	vsis	
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		9.8	2.5	ug/g	5	AM	10/27/16	9157	10/27/16	14:51	SW3051A6020A
Chromium		18	5.0	ug/g	5	AM	10/27/16	9157	10/27/16	14:51	SW3051A6020A
Copper		11	5.0	ug/g	5	AM	10/27/16	9157	11/1/16	15:39	SW3051A6020A
Sample#:	38303-002										
Sample ID:	B-2										
Matrix:	Solid	Percent Dry: 97	7.4% Resul	ts expi	essed on	a dry	weight ba	sis.			
				•			0				
Sampled:	10/13/16 10:4	5	Reporting		Instr Dil'n	,	Prep		Analy	vsis	
Sampled: Parameter	10/13/16 10:45	5 Result	Reporting Limit	Units	Instr Dil'n Factor	Analys	Prep st Date	Batch	Analy Date	vsis Time	Reference
Sampled: Parameter Arsenic	10/13/16 10:4	5 Result 3.4	Reporting Limit 2.5	Units ug/g	Instr Dil'n Factor 5	Analys AM	Prep st Date 10/27/16	Batch 9157	Analy Date 10/27/16	vsis Time 14:58	Reference SW3051A6020A
Sampled: Parameter Arsenic Chromium	10/13/16 10:4	5 Result 3.4 17	Reporting Limit 2.5 4.9	Units ug/g ug/g	Instr Dil'n Factor 5 5	Analys AM AM	Prep 5t Date 10/27/16 10/27/16	Batch 9157 9157	Analy Date 10/27/16 10/27/16	vsis Time 14:58 14:58	Reference SW3051A6020A SW3051A6020A
Sampled: Parameter Arsenic Chromium Copper	10/13/16 10:4	5 Result 3.4 17 10	Reporting Limit 2.5 4.9 4.9	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 5 5	Analys AM AM AM	Prep st Date 10/27/16 10/27/16 10/27/16	Batch 9157 9157 9157	Analy Date 10/27/16 10/27/16 11/1/16	vsis Time 14:58 14:58 15:46	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sampled: Parameter Arsenic Chromium Copper Sample#:	10/13/16 10:4 38303-003	5 Result 3.4 17 10	Reporting Limit 2.5 4.9 4.9	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 5 5	Analys AM AM AM	Prep 5t Date 10/27/16 10/27/16 10/27/16	Batch 9157 9157 9157	Analy Date 10/27/16 10/27/16 11/1/16	vsis Time 14:58 14:58 15:46	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sampled: Parameter Arsenic Chromium Copper Sample#: Sample ID:	10/13/16 10:4 38303-003 B-3	5 Result 3.4 17 10	Reporting Limit 2.5 4.9 4.9	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 5 5	Analys AM AM AM	Prep 5t Date 10/27/16 10/27/16 10/27/16	Batch 9157 9157 9157	Analy Date 10/27/16 10/27/16 11/1/16	vsis Time 14:58 14:58 15:46	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sampled: Parameter Arsenic Chromium Copper Sample#: Sample ID: Matrix:	10/13/16 10:4 38303-003 B-3 Solid	5 Result 3.4 17 10 Percent Dry: 96	Reporting Limit 2.5 4.9 4.9 5.9% Resul	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 5 5	Analys AM AM AM a dry	Prep 5t Date 10/27/16 10/27/16 10/27/16 weight ba	Batch 9157 9157 9157 sis.	Analy Date 10/27/16 10/27/16 11/1/16	vsis Time 14:58 14:58 15:46	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sampled: Parameter Arsenic Chromium Copper Sample#: Sample ID: Matrix: Sampled:	10/13/16 10:4 38303-003 B-3 Solid 10/13/16 11:1	5 Result 3.4 17 10 Percent Dry: 96	Reporting Limit 2.5 4.9 4.9 5.9% Resul	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 5 essed on Instr Dil'n	Analys AM AM AM a dry	Prep 5t Date 10/27/16 10/27/16 10/27/16 weight ba Prep	Batch 9157 9157 9157 sis.	Analy Date 10/27/16 10/27/16 11/1/16 Analy	vsis Time 14:58 14:58 15:46	Reference SW3051A6020A SW3051A6020A SW3051A6020A
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# Laboratory Report

# Absolute Resource associates

124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann St.Germain & Associates, Inc. 846 Main St. Suite 3 Westbrook, ME 04092



PO Number: None Job ID: 38413 Date Received: 11/2/16

Project: Fairpoint Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

As requested by the customer, samples were air dried, sieved, and subjected to incremental sampling, prior to analysis.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely, Absolute Resource Associates

luer (for)

Sue Sylvester Principal, General Manager

Date of Approval: 11/21/2016 Total number of pages: 24

#### Absolute Resource Associates Certifications

New Hampshire 1732 Maine NH903 Massachusetts M-NH902

Job ID: 38413

Sample#: 38413-001

Sample ID: SU-1-1 (DPB)

. Matrix: Solid

p-terphenyl-D14 SUR

Sampled: 10/26/16 8:40 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 14:00 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 14:00 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D 1 ug/g SW3546/8270D phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D ug/g fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 14:00 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D < 0.05 11/9/16 14:00 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 14:00 ug/g 1 9187 11/9/16 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 14:00 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 61 21-100 % 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D phenol-D5 SUR 59 % 1 CL 14:00 SW3546/8270D 10-102 11/9/16 9187 11/9/16 2,4,6-tribromophenol SUR 31 10-123 % 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D CL 14:00 nitrobenzene-D5 SUR 62 35-114 % 1 11/9/16 9187 11/9/16 SW3546/8270D 2-fluorobiphenyl SUR 64 43-116 % 1 CL 11/9/16 9187 11/9/16 14:00 SW3546/8270D

CL

11/9/16

9187 11/9/16

14:00

SW3546/8270D

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79

33-141

%



Job ID: 38413

Sample#: 38413-002

Sample ID: SU-1-2 (DPB)

. Matrix: Solid

Sampled: 10/26/16 8:40 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D ug/g 1 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 14:40 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 14:40 ug/g 1 pentachlorophenol < 1 1 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D ug/g SW3546/8270D phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D ug/g fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 14:40 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D < 0.05 11/9/16 14:40 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 9187 11/9/16 14:40 ug/g 1 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 14:40 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 57 21-100 % 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D phenol-D5 SUR % 1 CL SW3546/8270D 53 10-102 11/9/16 9187 11/9/16 14:40 2,4,6-tribromophenol SUR 28 10-123 % 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D 59 CL 14:40 nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 SW3546/8270D 2-fluorobiphenyl SUR 61 43-116 % 1 CL 11/9/16 9187 11/9/16 14:40 SW3546/8270D p-terphenyl-D14 SUR CL 69 33-141 % 1 11/9/16 9187 11/9/16 14:40 SW3546/8270D



Job ID: 38413

Sample#: 38413-003

Sample ID: SU-1-3 (DPB)

Matrix: Solid

Sampled: 10/26/16 8:40 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g 1 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 15:19 acenaphthene < 0.05 CL 0.05 ug/g 1 11/9/16 9187 11/9/16 15:19 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g 9187 11/9/16 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 15:19 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 15:19 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 15:19 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 15:19 ug/g 1 9187 11/9/16 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 15:19 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 55 21-100 % 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D phenol-D5 SUR % 1 CL 15:19 SW3546/8270D 53 10-102 11/9/16 9187 11/9/16 9187 11/9/16 2,4,6-tribromophenol SUR 26 10-123 % 1 CL 11/9/16 15:19 SW3546/8270D 56 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 15:19 SW3546/8270D 2-fluorobiphenyl SUR 60 43-116 % 1 CL 11/9/16 9187 11/9/16 15:19 SW3546/8270D p-terphenyl-D14 SUR 75 CL 33-141 % 1 11/9/16 9187 11/9/16 15:19 SW3546/8270D



Job ID: 38413

Sample#: 38413-004

Sample ID: SU-2-1 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 15:59 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 15:59 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 acenaphthene < 0.05 CL 15:59 0.05 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D ug/g SW3546/8270D phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D ug/g fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 15:59 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D < 0.05 11/9/16 15:59 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 15:59 ug/g 1 9187 11/9/16 SW3546/8270D < 0.05 CL 15:59 dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 55 21-100 % 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D phenol-D5 SUR 51 % 1 CL 15:59 10-102 11/9/16 9187 11/9/16 SW3546/8270D 2,4,6-tribromophenol SUR 38 10-123 % 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D 52 CL 15:59 nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 SW3546/8270D 2-fluorobiphenyl SUR 55 43-116 % 1 CL 11/9/16 9187 11/9/16 15:59 SW3546/8270D p-terphenyl-D14 SUR 64 CL 33-141 % 1 11/9/16 9187 11/9/16 15:59 SW3546/8270D



Job ID: 38413

Sample#: 38413-005

Sample ID: SU-2-2 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 ug/g 1 16:39 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 16:39 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D 1 ug/g SW3546/8270D phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D ug/g 16:39 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 16:39 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D < 0.05 11/9/16 16:39 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 9187 11/9/16 16:39 ug/g 1 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 16:39 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 56 21-100 % 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D phenol-D5 SUR % 1 CL 16:39 52 10-102 11/9/16 9187 11/9/16 SW3546/8270D 2,4,6-tribromophenol SUR 29 10-123 % 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D 55 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 16:39 SW3546/8270D 2-fluorobiphenyl SUR 56 43-116 % 1 CL 11/9/16 9187 11/9/16 16:39 SW3546/8270D p-terphenyl-D14 SUR 61 CL 33-141 % 1 11/9/16 9187 11/9/16 16:39 SW3546/8270D



Job ID: 38413

Sample#: 38413-006

Sample ID: SU-2-3 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00		Reporting		Instr Dil'n		Prep	Analysis				
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference	
naphthalene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
acenaphthene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
fluorene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
pentachlorophenol	< 1	1	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
phenanthrene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
anthracene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
fluoranthene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
pyrene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
chrysene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
Surrogate Recovery		Limits									
2-fluorophenol SUR	56	21-100	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
phenol-D5 SUR	53	10-102	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
2,4,6-tribromophenol SUR	35	10-123	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
nitrobenzene-D5 SUR	53	35-114	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
2-fluorobiphenyl SUR	55	43-116	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	
p-terphenyl-D14 SUR	63	33-141	%	1	CL 11	/9/16	9187	11/9/16	17:19	SW3546/8270D	



Job ID: 38413

Sample#: 38413-007

Sample ID: SU-3-1 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00

Sampled: 10/26/16 10:00		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	59	21-100	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
phenol-D5 SUR	54	10-102	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
2,4,6-tribromophenol SUR	34	10-123	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
nitrobenzene-D5 SUR	56	35-114	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
2-fluorobiphenyl SUR	58	43-116	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D
p-terphenyl-D14 SUR	70	33-141	%	1	CL 11/9/16	9187	11/9/16	17:59	SW3546/8270D



Job ID: 38413

Sample#: 38413-008

Sample ID: SU-3-2 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 ug/g 1 9187 11/9/16 18:38 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D acenaphthylene < 0.05 11/9/16 18:38 SW3546/8270D 0.05 ug/g 1 CL 9187 11/9/16 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D 1 ug/g SW3546/8270D phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D ug/g fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 18:38 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D < 0.05 11/9/16 18:38 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 9187 11/9/16 18:38 ug/g 1 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 18:38 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 59 21-100 % 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D phenol-D5 SUR % 1 CL 18:38 56 10-102 11/9/16 9187 11/9/16 SW3546/8270D 2,4,6-tribromophenol SUR 34 10-123 % 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D 57 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 18:38 SW3546/8270D 2-fluorobiphenyl SUR 61 43-116 % 1 CL 11/9/16 9187 11/9/16 18:38 SW3546/8270D p-terphenyl-D14 SUR 75 CL 33-141 % 1 11/9/16 9187 11/9/16 18:38 SW3546/8270D



Job ID: 38413

Sample#: 38413-009

Sample ID: SU-3-3 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D ug/g 1 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 19:18 SW3546/8270D 0.05 ug/g 1 9187 11/9/16 acenaphthene < 0.05 CL 0.05 ug/g 1 11/9/16 9187 11/9/16 19:18 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9187 11/9/16 19:18 ug/g 1 pentachlorophenol < 1 1 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D ug/g 9187 11/9/16 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 19:18 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D ug/g benzo(b)fluoranthene < 0.05 0.05 CL 19:18 ug/g 1 11/9/16 9187 11/9/16 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9187 11/9/16 19:18 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 19:18 ug/g 1 9187 11/9/16 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9187 11/9/16 19:18 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 64 21-100 % 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D phenol-D5 SUR % 1 CL 19:18 SW3546/8270D 60 10-102 11/9/16 9187 11/9/16 2,4,6-tribromophenol SUR 45 10-123 % 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D 61 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9187 11/9/16 19:18 SW3546/8270D 2-fluorobiphenyl SUR 64 43-116 % 1 CL 11/9/16 9187 11/9/16 19:18 SW3546/8270D p-terphenyl-D14 SUR CL 73 33-141 % 1 11/9/16 9187 11/9/16 19:18 SW3546/8270D



Job ID: 38413

Sample#: 38413-010

Sample ID: SU-4-1 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Sampled: 10/27/16 10:00		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	62	21-100	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
phenol-D5 SUR	60	10-102	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
2,4,6-tribromophenol SUR	33	10-123	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
nitrobenzene-D5 SUR	60	35-114	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
2-fluorobiphenyl SUR	63	43-116	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D
p-terphenyl-D14 SUR	77	33-141	%	1	CL 11/9/16	9187	11/9/16	19:57	SW3546/8270D



Job ID: 38413

Sample#: 38413-011

Sample ID: SU-4-2 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Sampled: 10/27/16 10:00		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	57	21-100	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
phenol-D5 SUR	54	10-102	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
2,4,6-tribromophenol SUR	33	10-123	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
nitrobenzene-D5 SUR	55	35-114	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
2-fluorobiphenyl SUR	56	43-116	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D
p-terphenyl-D14 SUR	69	33-141	%	1	CL 11/9/16	9187	11/9/16	20:37	SW3546/8270D



Job ID: 38413

Sample#: 38413-012

Sample ID: SU-4-3 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Sampled: 10/27/16 10:00		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	66	21-100	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
phenol-D5 SUR	62	10-102	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
2,4,6-tribromophenol SUR	43	10-123	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
nitrobenzene-D5 SUR	62	35-114	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
2-fluorobiphenyl SUR	66	43-116	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D
p-terphenyl-D14 SUR	79	33-141	%	1	CL 11/9/16	9187	11/9/16	21:16	SW3546/8270D



Job ID: 38413

Sample#: 38413-013

Sample ID: SU-5-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Sampled: 10/28/16 12:30		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	60	21-100	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
phenol-D5 SUR	57	10-102	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
2,4,6-tribromophenol SUR	28	10-123	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
nitrobenzene-D5 SUR	60	35-114	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
2-fluorobiphenyl SUR	63	43-116	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D
p-terphenyl-D14 SUR	79	33-141	%	1	CL 11/9/16	9187	11/9/16	21:55	SW3546/8270D



Job ID: 38413

Sample#: 38413-014

Sample ID: SU-5-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Sampled: 10/28/16 12:30		Reporting		Instr Dil'n	Prep		Anal		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	66	21-100	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
phenol-D5 SUR	62	10-102	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
2,4,6-tribromophenol SUR	36	10-123	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
nitrobenzene-D5 SUR	63	35-114	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
2-fluorobiphenyl SUR	66	43-116	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D
p-terphenyl-D14 SUR	88	33-141	%	1	CL 11/9/16	9187	11/9/16	23:52	SW3546/8270D



Job ID: 38413

Sample#: 38413-015

Sample ID: SU-5-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Sampled: 10/28/16 12:30		Reporting		Instr Dil'n	Prep		Analy		
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	63	21-100	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
phenol-D5 SUR	60	10-102	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
2,4,6-tribromophenol SUR	29	10-123	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
nitrobenzene-D5 SUR	60	35-114	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
2-fluorobiphenyl SUR	64	43-116	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D
p-terphenyl-D14 SUR	82	33-141	%	1	CL 11/9/16	9187	11/10/16	0:31	SW3546/8270D



Project ID: Fa	airpoint Brunswick 3947 8413										
Sample#: Sample ID: Matrix:	38413-001 SU-1-1 (DPB) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/26/16 8:40	Result < 2.5 < 9.8 * < 9.8 *	Reporting Limit 2.5 9.8 9.8	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analyst AM 1 <sup>-</sup> AM 1 <sup>-</sup> AM 1 <sup>-</sup>	Prep Date 1/8/16 1/8/16 1/8/16	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 19:01 20:10 20:10	Reference SW3051A6020A SW3051A6020A SW3051A6020A
* Sample#: Sample ID: Matrix:	Dilution was required due t 38413-002 SU-1-2 (DPB) Solid	o interna	ıl standard iı	nterfere	ence from t	he matrix.					
Sampled: Parameter Arsenic Chromium Copper	10/26/16 8:40 Dilution was required due t	Result < 2.5 < 10 * < 10 * o interna	Reporting Limit 2.5 10 10 al standard in	Units ug/g ug/g ug/g nterfere	Instr Dil'n Factor 5 10 10 ence from t	Analyst AM 1 <sup>-1</sup> AM 1 <sup>-1</sup> AM 1 <sup>-1</sup> he matrix.	Prep Date 1/8/16 1/8/16 1/8/16	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 19:08 20:16 20:16	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38413-003 SU-1-3 (DPB) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/26/16 8:40 Dilution was required due t	Result < 2.5 < 9.8 * < 9.8 * o interna	Reporting Limit 2.5 9.8 9.8 Il standard in	Units ug/g ug/g ug/g nterfere	Instr Dil'n Factor 5 10 10 ence from ti	Analyst AM 1 <sup>-</sup> AM 1 <sup>-</sup> AM 1 <sup>-</sup> he matrix.	Prep Date 1/8/16 1/8/16 1/8/16	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 19:14 20:22 20:22	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38413-004 SU-2-1 (DPSW) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/26/16 9:00	Result < 2.5 11 * < 10 *	Reporting Limit 2.5 10 10	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analyst AM 1 AM 1 AM 1	Prep Date 1/8/16 1/8/16 1/8/16	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 19:21 20:28 20:28	Reference SW3051A6020A SW3051A6020A SW3051A6020A

\* Dilution was required due to internal standard interference from the matrix.


Project ID: Fa	airpoint Brunswick 3947 3413										
Sample#: Sample ID: Matrix:	38413-005 SU-2-2 (DPSW) Solid										
Sampled: Parameter Arsenic Chromium	10/26/16 9:00	Result < 2.5 11 *	Reporting Limit 2.5 9.8	Units ug/g ug/g	Instr Dil'n Factor 5 10	Analys AM AM	Prep st Date 11/8/16 11/8/16	Batch 9185 9185	Analy Date 11/15/16 11/17/16	/sis Time 19:28 20:51	Reference SW3051A6020A SW3051A6020A
Copper		< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:51	SW3051A6020A
* [	Dilution was required due to	o interna	l standard ir	nterfere	ence from t	he matr	ix.				
Sample#: Sample ID: Matrix:	38413-006 SU-2-3 (DPSW) Solid										
Sampled:	10/26/16 9:00		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		2.5	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	19:55	SW3051A6020A
Chromium		10.0 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	20:57	SW3051A6020A
Copper * r	Dilution was required due t	< 9.4 *	9.4 Latandard ir	ug/g	10 haa from t	AM ho motr	11/8/16	9185	11/17/16	20:57	SW3051A6020A
~ L	Dilution was required due to	o interna	i standard ir	iteriere	ence from t	ne matr	IX.				
Sample#:	38413-007										
Sample ID:	SU-3-1 (PYSW)										
Matrix:	Solid										
Sampled:	10/26/16 10:00		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		3.4	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:09	SW3051A6020A
Chromium		11 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:02	SW3051A6020A
Copper		< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:02	SW3051A6020A
* [	Dilution was required due to	o interna	l standard ir	nterfere	ence from t	he matr	ix.				
Sample#: Sample ID: Matrix:	38413-008 SU-3-2 (PYSW) Solid										
Sampled:	10/26/16 10:00		Reportina		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		3.2	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:15	SW3051A6020A
Chromium		11 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:08	SW3051A6020A
Copper		< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:08	SW3051A6020A

\* Dilution was required due to internal standard interference from the matrix.



Project ID: Fa	airpoint Brunswick 3947 3413										
Sample#: Sample ID: Matrix:	38413-009 SU-3-3 (PYSW) Solid										
Sampled: Parameter	10/26/16 10:00	Result	Reporting Limit	Units	Instr Dil'n Factor	Analys	Prep t Date	Batch	Analy Date	vsis Time	Reference
Chromium		< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20.22	SW3051A6020A
Copper		< 9.8 *	9.8	ua/a	10	AM	11/8/16	9185	11/17/16	21:14	SW3051A6020A
*[	Dilution was required due t	o interna	l standard ir	nterfere	ence from t	he matr	ix.				
Sample#:	38413-010										
Sample ID:	SU-4-1 (PYB)										
Matrix:	Solid										
Sampled:	10/27/16 10:00		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
Arsenic		< 2.4	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:29	SW3051A6020A
Chromium		< 9.4 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	21:20	SW3051A6020A
Copper		< 9.4 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	21:20	SW3051A6020A
* [	Dilution was required due to	o interna	l standard ir	nterfere	ence from tl	he matr	ix.				
Sample#:	38413-011										
Sample ID:	SU-4-2 (PYB)										
Matrix:	Solid										
Sampled:	10/27/16 10:00		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
Arsenic		< 2.4	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:36	SW3051A6020A
Chromium		< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:26	SW3051A6020A
Copper		< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:26	SW3051A6020A
* [	Dilution was required due to	o interna	l standard ir	nterfere	ence from tl	he matr	ix.				
Sample#: Sample ID:	38413-012 SU-4-3 (PYB)										
Matrix:	Solid										
Sampled:	10/27/16 10:00		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
Arsenic		< 2.3	2.3	ug/g	5	AM	11/8/16	9185	11/15/16	20:43	SW3051A6020A
Chromium		< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	21:32	SW3051A6020A
Copper		< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	21:32	SW3051A6020A

\* Dilution was required due to internal standard interference from the matrix.



Project ID: Fairpoint Brunswick 39 Job ID: 38413	47									
Sample#: 38413-013										
Sample ID: SU-5-1 (PYSW)										
Matrix: Solid										
Sampled: 10/28/16 12:30		Reporting		Instr Dil'n		Prep		Analy	isis	
Parameter	Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
Arsenic	3.2	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:50	SW3051A6020A
Chromium	11 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:37	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:37	SW3051A6020A
* Dilution was required du	e to interna	l standard i	nterfere	nce from t	he matri	х.				
Sample#: 38413-014										
Sample ID: SU 5 2 (DVSW)										
Sample ID: 50-5-2 (FFSW)										
Watrix: Solid										
Sampled: 10/28/16 12:30		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analys	t Date	Batch	Date	lime	Reference
Arsenic	3.4	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:56	SW3051A6020A
	40 *	10	nu/u	10	ΔM	11/8/16		44/47/40	21.13	S/M/3051460204
Chromium	12	10	ug/g	10	7 (101	11/0/10	9185	11/17/16	21.40	0113031A0020A
Copper	12 10 *	10	ug/g	10	AM	11/8/16	9185 9185	11/17/16 11/17/16	21:43	SW3051A6020A
Copper * Dilution was required du	12 10 * e to interna	10 10 I standard i	ug/g nterfere	10 nce from t	AM he matri	11/8/16 x.	9185 9185	11/17/16 11/17/16	21:43	SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015	12 10 * e to interna	10 10 I standard i	ug/g nterfere	10 Ince from t	AM he matri	11/8/16 x.	9185 9185	11/17/16	21:43	SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW)	12 10 * e to interna	10 10 I standard i	ug/g nterfere	10 nce from t	AM he matri	11/8/16 x.	9185 9185	11/17/16	21:43	SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid	12 10 * e to interna	10 10 I standard i	ug/g ug/g nterfere	10 nce from t	AM he matri	11/8/16 x.	9185 9185	11/17/16	21:43	SW3051A6020A
Chromium Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid Sampled: 10/28/16 12:30	12 10 * e to interna	10 10 I standard i	ug/g ug/g nterfere	10 nce from t	AM he matri	11/8/16 x.	9185 9185	11/17/16	21:43	SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid Sampled: 10/28/16 12:30 Peremeter	12 10 * e to interna	10 I standard i Reporting	ug/g ug/g nterfere	10 nce from t	AM he matri	Prep	9185 9185 Batch	11/17/16 11/17/16 Analy Date	21:43 21:43 vsis	SW3051A6020A SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid Sampled: 10/28/16 12:30 Parameter Arconic	12 10 * e to interna Result	10 I standard i Reporting Limit	ug/g ug/g nterfere Units	10 nce from t Instr Dil'n Factor	AM he matri	Prep t Date	9185 9185 Batch	Analy Date	21:43 21:43 vsis Time	SW3051A6020A SW3051A6020A Reference
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid Sampled: 10/28/16 12:30 Parameter Arsenic Chromium	to interna Result 3.4	10 I standard i Reporting Limit 2.4	ug/g ug/g nterfere Units ug/g	10 nce from t Instr Dil'n Factor 5	AM he matri Analysi AM	Prep t Date 11/8/16	9185 9185 Batch 9185	Analy Date 11/17/16	21:43 21:43 vsis Time 21:23 22:06	Reference SW3051A6020A Reference SW3051A6020A
Copper * Dilution was required du Sample#: 38413-015 Sample ID: SU-5-3 (PYSW) Matrix: Solid Sampled: 10/28/16 12:30 Parameter Arsenic Chromium Copper	Result 3.4 2 * 0 6 *	10 I standard i Limit 2.4 9.6	Units ug/g ug/g nterfere ug/g ug/g ug/g	10 nce from t Instr Dil'n Factor 5 10	AM he matri Analysi AM AM	Prep t Date 11/8/16 11/8/16 11/8/16	9185 9185 Batch 9185 9185	Analy Date 11/17/16 11/17/16 11/15/16 11/17/16	21:43 21:43 vsis Time 21:23 22:06 22:06	Reference SW3051A6020A SW3051A6020A SW3051A6020A SW3051A6020A

Dilution was required due to internal standard interference from the matrix.



Sample Readiness Procedure Log ARA SOP Ref. QA-801

Absoluce Resource Comments Readiness Procedure Date Init F.Hen blant Filtered 10/26/14 CC Do C 38304-06 sample , with -07 0.45pm Filter 10 × 60 507 103 Sample 38414-01 Harong 38414-12 11/3/16 ワん 38413-01 Harony's 38413-15 Ŕ Dried in Hoods 38414-01 through 38414-152 Sanple Sieving to kn 38413-01 through 38413-15 BOWI + Sieve Cleaned as follows. Soap + Weter, DI, 16% HUG Beth, Tap, DI (Snin) 2nn stize 11/4/16 Sample spread out onte on alumnum cooking sheet evenly. 279 scooped 40 times across the whole sheet Incruental Sampling 小小 to give a total waight of 80 1 3643-01-860.20 38413-67-80.169 -62-80.060 -054643 -03-80.46 -69-50.27 -04-50.04 -10-50-17 -05-50.03 -06-56.28 -11-80.250 38414-62-80.20 38413-12-80.15 a -03-86.200 1/7/16 gr -13-80.34 -64.80.23 -14-80.449 -05-80.240 -15-80.400 38414-01-50.149 -07-80.21

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Sample Readiness Procedure Log

ARA SOP Ref	F. QA-801			Absolute Resource
Date	Init	Readiness Procedure	Comments	11377L/4643-110
11/7/10	e he	Incrementer Sampling	-11-80.330 -12-80.140	Trorg 159 used for all weights
11-2-1k	hr	part - 103 solid inte link Macin fre preservation d Analysis.	for Samples 384/52-01 100 76g -02 10. 51g	
11/15/16	A-6-	Fillered Chlorophyll Samples	Balinger Trippis 15 38336-01300mls -07300mls -02450mls -07300mls -03450mls -10300mls -04350mls -10300mls -05350mls -11700mls -06400mes -11700mls Filler Lot H-R 6HALLIZOL	

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100	50.2-1	(PUCU)	8		X						() (A)	10 CG							x		+			x					-			x	XX	0
Dl	50-3-7	(PUSCO)	1		X		-					10/264	1000 BC	5		-			v		-			x					-			X	XX	
29	50-3-3	S(PYSW)	1		X							1012011	HIDOD RA	1					x		1			×					1			X	XI	εČ.
-10	50-4-1	(PYB)	1	1	x							101271	161000 61	3					x		1			+								x	xX	C.
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# Laboratory Report

# Absolute Resource associates

124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann St.Germain & Associates, Inc. 846 Main St. Suite 3 Westbrook, ME 04092



PO Number: None Job ID: 38414 Date Received: 11/2/16

Project: Fairpoint Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

As requested by the customer, samples were air dried, sieved, and subjected to incremental sampling, prior to analysis.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely, Absolute Resource Associates

luer (for)

Sue Sylvester Principal, General Manager

Date of Approval: 11/21/2016 Total number of pages: 20

#### Absolute Resource Associates Certifications

New Hampshire 1732 Maine NH903 Massachusetts M-NH902

Job ID: 38414

Sample#: 38414-001

Sample ID: SU-6-1 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Sampled: 10/28/16 13:00		Reporting		Instr Dil'n	Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	65	21-100	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
phenol-D5 SUR	60	10-102	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
2,4,6-tribromophenol SUR	40	10-123	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
nitrobenzene-D5 SUR	60	35-114	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
2-fluorobiphenyl SUR	63	43-116	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D
p-terphenyl-D14 SUR	79	33-141	%	1	CL 11/9/16	9187	11/10/16	1:10	SW3546/8270D



Job ID: 38414

Sample#: 38414-002

Sample ID: SU-6-2 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Sampled: 10/28/16 13:00		Reporting		Instr Dil'n	Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	63	21-100	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
phenol-D5 SUR	59	10-102	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
2,4,6-tribromophenol SUR	38	10-123	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
nitrobenzene-D5 SUR	59	35-114	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
2-fluorobiphenyl SUR	62	43-116	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D
p-terphenyl-D14 SUR	83	33-141	%	1	CL 11/9/16	9187	11/10/16	1:49	SW3546/8270D



Job ID: 38414

Sample#: 38414-003

Sample ID: SU-6-3 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Sampled: 10/28/16 13:00		Reporting		Instr Dil'n	Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	57	21-100	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
phenol-D5 SUR	58	10-102	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
2,4,6-tribromophenol SUR	33	10-123	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
nitrobenzene-D5 SUR	56	35-114	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
2-fluorobiphenyl SUR	59	43-116	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D
p-terphenyl-D14 SUR	71	33-141	%	1	CL 11/9/16	9188	11/10/16	15:28	SW3546/8270D



Job ID: 38414

Sample#: 38414-004

Sample ID: SU-7-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00

Sampled: 10/28/16 15:00		Reporting		Instr Dil'n	Prep		Analy	sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
Surrogate Recovery		Limits							
2-fluorophenol SUR	41	21-100	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
phenol-D5 SUR	38	10-102	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
2,4,6-tribromophenol SUR	24	10-123	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
nitrobenzene-D5 SUR	45	35-114	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
2-fluorobiphenyl SUR	46	43-116	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D
p-terphenyl-D14 SUR	59	33-141	%	1	CL 11/9/16	9188	11/10/16	16:08	SW3546/8270D



Job ID: 38414

Sample#: 38414-005

Sample ID: SU-7-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/10/16 16:48 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 SW3546/8270D 0.05 ug/g 1 9188 11/10/16 16:48 acenaphthene CL < 0.05 0.05 ug/g 1 11/9/16 9188 11/10/16 16:48 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/10/16 16:48 ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D 1 ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D ug/g 9188 11/10/16 16:48 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D ug/g < 0.05 0.05 CL 11/9/16 benzo(b)fluoranthene ug/g 1 9188 11/10/16 16:48 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9188 11/10/16 16:48 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 ug/g 1 9188 11/10/16 16:48 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9188 11/10/16 16:48 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 16:48 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 49 21-100 % 1 CL 11/9/16 9188 11/10/16 16:48 phenol-D5 SUR





Job ID: 38414

Sample#: 38414-006

Sample ID: SU-7-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00 Reporting Prep Instr Dil'n Result Limit Units Factor Analyst Date Parameter naphthalene < 0.05 1 CL 11/9/16 0.05 ug/g 2-methylnanhthalene - 0.05 0.05 ua/a 11/0/16 1

2-methvlnaphthalene	< 0.05	0.05	ua/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
acenaphthylene	< 0.05	0.05	na/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
acenaphthene	< 0.05	0.05	na/a	1	CL 11/9/16	9188 11/10/16	17.27	SW3546/8270D
fluorene	< 0.05	0.05	ua/a	1	CL 11/9/16	9188 11/10/16	17.27	SW3546/8270D
pentachlorophenol	< 1	1	na/a	1	CL 11/9/16	9188 11/10/16	17.27	SW/3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17.27	SW3546/8270D
anthracene	< 0.05	0.05	ua/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
fluoranthene	< 0.05	0.05	na/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
pyrene	< 0.05	0.05	ua/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ua/a	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
Surrogate Recovery		Limits						
2-fluorophenol SUR	52	21-100	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
phenol-D5 SUR	50	10-102	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
2,4,6-tribromophenol SUR	30	10-123	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
nitrobenzene-D5 SUR	52	35-114	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
2-fluorobiphenyl SUR	55	43-116	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D
p-terphenyl-D14 SUR	68	33-141	%	1	CL 11/9/16	9188 11/10/16	17:27	SW3546/8270D



Analysis

Date

9188 11/10/16 17:27

Batch

Time

Reference

SW3546/8270D

Job ID: 38414

Sample#: 38414-007

Sample ID: SU-8-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10		Reporting		Instr Dil'n	Prep		Analysis	S
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date Ti	me Reference
naphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
Surrogate Recovery		Limits						
2-fluorophenol SUR	41	21-100	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
phenol-D5 SUR	34	10-102	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
2,4,6-tribromophenol SUR	17	10-123	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
nitrobenzene-D5 SUR	46	35-114	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
2-fluorobiphenyl SUR	47	43-116	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D
p-terphenyl-D14 SUR	55	33-141	%	1	CL 11/9/16	9188	11/11/16 12	2:58 SW3546/8270D



Job ID: 38414

Sample#: 38414-008

Sample ID: SU-8-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/10/16 18:46 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D acenaphthylene < 0.05 11/9/16 SW3546/8270D 0.05 ug/g 1 CL 9188 11/10/16 18:46 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/10/16 18:46 ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D 1 ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D ug/g 9188 11/10/16 18:46 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D ug/g < 0.05 0.05 CL 11/9/16 benzo(b)fluoranthene ug/g 1 9188 11/10/16 18:46 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9188 11/10/16 18:46 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 SW3546/8270D ug/g 1 9188 11/10/16 18:46 < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9188 11/10/16 18:46 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 50 21-100 % 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D phenol-D5 SUR % 1 CL 44 10-102 11/9/16 9188 11/10/16 18:46 SW3546/8270D 9188 2,4,6-tribromophenol SUR 25 10-123 % 1 CL 11/9/16 11/10/16 18:46 SW3546/8270D 48 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9188 11/10/16 18:46 SW3546/8270D 2-fluorobiphenyl SUR 52 43-116 % 1 CL 11/9/16 9188 11/10/16 18:46 SW3546/8270D p-terphenyl-D14 SUR CL 64 33-141 % 1 11/9/16 9188 11/10/16 18:46 SW3546/8270D



Job ID: 38414

Sample#: 38414-009

Sample ID: SU-8-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/11/16 13:37 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D acenaphthylene < 0.05 11/9/16 SW3546/8270D 0.05 ug/g 1 CL 9188 11/11/16 13:37 acenaphthene < 0.05 CL 0.05 ug/g 1 11/9/16 9188 11/11/16 13:37 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/11/16 13:37 ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D 1 ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D ug/g 9188 11/11/16 13:37 fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 SW3546/8270D pyrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D ug/g chrysene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D ug/g < 0.05 0.05 CL 11/9/16 benzo(b)fluoranthene ug/g 1 9188 11/11/16 13:37 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9188 11/11/16 13:37 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 SW3546/8270D ug/g 1 9188 11/11/16 13:37 < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9188 11/11/16 13:37 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 51 21-100 % 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D phenol-D5 SUR % 1 CL 46 10-102 11/9/16 9188 11/11/16 13:37 SW3546/8270D 2,4,6-tribromophenol SUR 28 10-123 % 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D 53 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9188 11/11/16 13:37 SW3546/8270D 2-fluorobiphenyl SUR 56 43-116 % 1 CL 11/9/16 9188 11/11/16 13:37 SW3546/8270D p-terphenyl-D14 SUR CL 64 33-141 % 1 11/9/16 9188 11/11/16 13:37 SW3546/8270D



Job ID: 38414

Sample#: 38414-010

Sample ID: SU-9-1 (DPSW)

Matrix: Solid

Sampled: 10/28/16 14:20 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/11/16 14:17 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D acenaphthylene < 0.05 11/9/16 SW3546/8270D 0.05 ug/g 1 CL 9188 11/11/16 14:17 acenaphthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D 1 ug/g phenanthrene 0.20 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D ug/g 9188 11/11/16 14:17 fluoranthene 0.26 0.05 ug/g 1 CL 11/9/16 SW3546/8270D pyrene 0.27 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D benzo(a)anthracene 0.15 0.05 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D ug/g chrysene 0.21 0.05 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D ug/g 0.16 0.05 CL benzo(b)fluoranthene ug/g 1 11/9/16 9188 11/11/16 14:17 SW3546/8270D benzo(k)fluoranthene 0.17 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D 11/9/16 benzo(a)pyrene 0.15 0.05 ug/g 1 CL 9188 11/11/16 14:17 SW3546/8270D 0.09 indeno(1,2,3-cd)pyrene 0.05 CL 11/9/16 SW3546/8270D ug/g 1 9188 11/11/16 14:17 CL dibenzo(a,h)anthracene 0.05 0.05 ug/g 1 11/9/16 9188 11/11/16 14:17 SW3546/8270D benzo(g,h,i)perylene 0.11 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 52 21-100 % 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D phenol-D5 SUR % 1 CL 50 10-102 11/9/16 9188 11/11/16 14:17 SW3546/8270D 2,4,6-tribromophenol SUR 40 10-123 % 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D 50 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9188 11/11/16 14:17 SW3546/8270D 2-fluorobiphenyl SUR 56 43-116 % 1 CL 11/9/16 9188 11/11/16 14:17 SW3546/8270D p-terphenyl-D14 SUR CL 64 33-141 % 1 11/9/16 9188 11/11/16 14:17 SW3546/8270D



Job ID: 38414

Sample#: 38414-011

Sample ID: SU-9-2 (DPSW)

Matrix: Solid

p-terphenyl-D14 SUR

Sampled: 10/28/16 14:20 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/11/16 14:57 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 SW3546/8270D 0.05 ug/g 1 9188 11/11/16 14:57 acenaphthene CL < 0.05 0.05 ug/g 1 11/9/16 9188 11/11/16 14:57 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/11/16 14:57 ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D 1 ug/g phenanthrene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D ug/g 9188 11/11/16 14:57 SW3546/8270D fluoranthene 0.08 0.05 ug/g 1 CL 11/9/16 pyrene 0.09 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D benzo(a)anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D ug/g chrysene 0.08 0.05 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D ug/g 0.07 0.05 CL 11/9/16 benzo(b)fluoranthene ug/g 1 9188 11/11/16 14:57 SW3546/8270D benzo(k)fluoranthene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D < 0.05 11/9/16 benzo(a)pyrene 0.05 ug/g 1 CL 9188 11/11/16 14:57 SW3546/8270D indeno(1,2,3-cd)pyrene < 0.05 0.05 CL 11/9/16 SW3546/8270D ug/g 1 9188 11/11/16 14:57 < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9188 11/11/16 14:57 SW3546/8270D benzo(g,h,i)perylene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 46 21-100 % 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D phenol-D5 SUR % 1 CL 40 10-102 11/9/16 9188 11/11/16 14:57 SW3546/8270D 9188 11/11/16 14:57 2,4,6-tribromophenol SUR 28 10-123 % 1 CL 11/9/16 SW3546/8270D 49 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9188 11/11/16 14:57 SW3546/8270D 2-fluorobiphenyl SUR 50 43-116 % 1 CL 11/9/16 9188 11/11/16 14:57 SW3546/8270D

57

33-141

%

CL

11/9/16

9188 11/11/16 14:57

1



SW3546/8270D

Job ID: 38414

Sample#: 38414-012

Sample ID: SU-9-3 (DPSW)

Matrix: Solid

Sampled: 10/28/16 14:20 Reporting Prep Analysis Instr Dil'n Limit Analyst Date Batch Date Time Parameter Result Units Factor Reference naphthalene < 0.05 0.05 CL 11/9/16 9188 11/11/16 15:37 ug/g 1 SW3546/8270D 2-methylnaphthalene < 0.05 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D acenaphthylene < 0.05 CL 11/9/16 SW3546/8270D 0.05 ug/g 1 9188 11/11/16 15:37 acenaphthene < 0.05 CL 0.05 ug/g 1 11/9/16 9188 11/11/16 15:37 SW3546/8270D SW3546/8270D fluorene < 0.05 0.05 CL 11/9/16 9188 11/11/16 15:37 ug/g 1 pentachlorophenol < 1 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D 1 ug/g phenanthrene 0.13 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D anthracene < 0.05 0.05 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D ug/g 9188 11/11/16 15:37 fluoranthene 0.23 0.05 ug/g 1 CL 11/9/16 SW3546/8270D pyrene 0.22 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D benzo(a)anthracene 0.11 0.05 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D ug/g chrysene 0.15 0.05 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D ug/g 0.11 0.05 CL 11/9/16 benzo(b)fluoranthene ug/g 1 9188 11/11/16 15:37 SW3546/8270D benzo(k)fluoranthene 0.13 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D 11/9/16 benzo(a)pyrene 0.10 0.05 ug/g 1 CL 9188 11/11/16 15:37 SW3546/8270D 0.06 indeno(1,2,3-cd)pyrene 0.05 CL 11/9/16 ug/g 1 9188 11/11/16 15:37 SW3546/8270D < 0.05 CL dibenzo(a,h)anthracene 0.05 ug/g 1 11/9/16 9188 11/11/16 15:37 SW3546/8270D benzo(g,h,i)perylene 0.07 0.05 ug/g 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D Surrogate Recovery Limits 2-fluorophenol SUR 45 21-100 % 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D phenol-D5 SUR % 1 CL 42 10-102 11/9/16 9188 11/11/16 15:37 SW3546/8270D 2,4,6-tribromophenol SUR 29 10-123 % 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D 46 CL nitrobenzene-D5 SUR 35-114 % 1 11/9/16 9188 11/11/16 15:37 SW3546/8270D 2-fluorobiphenyl SUR 49 43-116 % 1 CL 11/9/16 9188 11/11/16 15:37 SW3546/8270D p-terphenyl-D14 SUR CL 53 33-141 % 1 11/9/16 9188 11/11/16 15:37 SW3546/8270D



Project ID: Fa	airpoint Brunswick 3947 3414										
Sample#: Sample ID: Matrix:	38414-001 SU-6-1 (PYB) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/28/16 13:00	Result < 2.3 < 9.3 * < 9.3 *	Reporting Limit 2.3 9.3 9.3	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analys AM AM AM	Prep st Date 11/8/16 11/8/16 11/8/16	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 21:30 22:12 22:12	Reference SW3051A6020A SW3051A6020A SW3051A6020A
* Sample#: Sample ID: Matrix:	Dilution was required due t 38414-002 SU-6-2 (PYB) Solid	o interna	Il standard ir	nterfere	ence from ti	ne matri	ix.				
Sampled: Parameter Arsenic Chromium Copper	10/28/16 13:00 Dilution was required due t	Result < 2.4 < 9.6 * < 9.6 * o interna	Reporting Limit 2.4 9.6 9.6 I standard ir	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10 ence from tl	Analys AM AM AM ne matri	Prep at Date 11/8/16 11/8/16 11/8/16 ix.	Batch 9185 9185 9185	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 21:37 22:18 22:18	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38414-003 SU-6-3 (PYB) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/28/16 13:00 Dilution was required due t	Result < 2.5 < 10 * < 10 * o interna	Reporting Limit 2.5 10 10 standard ir	Units ug/g ug/g ug/g nterfere	Instr Dil'n Factor 5 10 10 ence from tl	Analys AM AM AM he matri	Prep t Date 11/15/16 11/15/16 11/15/16 ix.	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 21:44 22:24 22:24	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38414-004 SU-7-1 (PYSW) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/28/16 15:00	Result < 2.5 < 9.8 * < 9.8 *	Reporting Limit 2.5 9.8 9.8	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analys AM AM AM	Prep t Date 11/15/16 11/15/16 11/15/16	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 21:50 22:30 22:30	Reference SW3051A6020A SW3051A6020A SW3051A6020A

Dilution was required due to internal standard interference from the matrix.



Project ID: Fa	airpoint Brunswick 3947 8414										
Sample#: Sample ID: Matrix:	38414-005 SU-7-2 (PYSW) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/28/16 15:00	Result < 2.4 < 9.6 * < 9.6 *	Reporting Limit 2.4 9.6 9.6	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analys AM AM AM	Prep t Date 11/15/16 11/15/16 11/15/16	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 21:57 22:36 22:36	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38414-006 SU-7-3 (PYSW) Solid	U interne		literiere		ne mau	<b>^.</b>				
Sampled: Parameter Arsenic Chromium Copper	10/28/16 15:00	Result < 2.5 < 9.8 * < 9.8 *	Reporting Limit 2.5 9.8 9.8	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analys AM AM AM	Prep t Date 11/15/16 11/15/16 11/15/16	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	vsis Time 22:04 22:41 22:41	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38414-007 SU-8-1 (PYSW) Solid			lienere		ne mau	<b>^.</b>				
Sampled: Parameter Arsenic Chromium Copper	10/28/16 15:10 Dilution was required due t	Result < 2.5 < 10 * < 10 * o interna	Reporting Limit 2.5 10 10 standard in	Units ug/g ug/g ug/g nterfere	Instr Dil'n Factor 5 10 10 ence from t	Analys AM AM AM AM	Prep t Date 11/15/16 11/15/16 11/15/16 x.	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	ysis Time 22:11 22:47 22:47	Reference SW3051A6020A SW3051A6020A SW3051A6020A
Sample#: Sample ID: Matrix:	38414-008 SU-8-2 (PYSW) Solid										
Sampled: Parameter Arsenic Chromium Copper	10/28/16 15:10	Result < 2.4 < 9.6 * < 9.6 *	Reporting Limit 2.4 9.6 9.6	Units ug/g ug/g ug/g	Instr Dil'n Factor 5 10 10	Analys AM AM AM	Prep t Date 11/15/16 11/15/16 11/15/16	Batch 9199 9199 9199	Analy Date 11/15/16 11/17/16 11/17/16	/sis Time 22:17 22:53 22:53	Reference SW3051A6020A SW3051A6020A SW3051A6020A

Dilution was required due to internal standard interference from the matrix.



Project ID: Fa	airpoint Brunswick 3947 3414										
Sample#:	38414-009										
Sample ID:	SU-8-3 (PYSW)										
Matrix:	Solid										
Sampled:	10/28/16 15:10		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	22:24	SW3051A6020A
Chromium		< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:59	SW3051A6020A
Copper		< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:59	SW3051A6020A
*	Dilution was required due t	o interna	I standard ir	nterfere	ence from t	he matri	ix.				
Sample#:	38414-010										
Sample ID:	SU-9-1 (DPSW)										
Matrix:	Solid										
Sampled:	10/28/16 14:20		Reporting		Instr Dil'n		Pren		Δnah	vsis	
Parameter		Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
Arsenic		2.9	2.5	uq/q	5	AM	11/15/16	9199	11/15/16	22:51	SW3051A6020A
Chromium		12 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	23:22	SW3051A6020A
Copper		< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	23:22	SW3051A6020A
*	Dilution was required due t	o interna	I standard ii	nterfere	ence from t	he matri	ix.				
Sample#:	38414-011										
Sample ID:	SU-9-2 (DPSW)										
Matrix:	Solid										
Samplad:	10/28/16 14:20		D				Dava		A		
Sampleu.	10/20/10 14.20	Docult	Reporting	Unite	Instr Dil'n	Analys	Prep t Date	Batch	Anaiy Date	/SIS Time	Deference
Arsonia		2 7	2.4		5		11/15/16	0100	11/15/16	22.20	SW/2051 A6020A
Chromium		2. <i>1</i> 11 *	2. <del>4</del> 9.6	ug/g	10		11/15/16	0100	11/17/16	22.00	SW3051A0020A
Copper		~ 96 *	9.6	ug/g	10		11/15/16	9199	11/17/16	23.20	SW3051A6020A
*	Dilution was required due t	o interna	ll standard in	nterfere	ence from t	he matri	ix.	0100	11/17/10	20.20	00000000000000000
Sampla#.	29444 042										
Sample#.											
Sample ID:	SU-9-3 (DPSVV)										
Matrix:	Solid										
Sampled:	10/28/16 14:20	<b>.</b>	Reporting		Instr Dil'n	A 1	Prep	Datel	Analy	/sis	<b>D</b> (
Parameter		Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
Arsenic		3.0	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	23:05	SW3051A6020A
Chromium		12 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	23:34	SW3051A6020A
Copper		< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	23:34	SW3051A6020A

\* Dilution was required due to internal standard interference from the matrix.



Sample Readiness Procedure Log ARA SOP Ref. QA-801

Absoluce Resource Comments Readiness Procedure Date Init F.Hen blant Filtered 10/26/14 CC Do C 38304-06 sample , with -07 0.45pm Filter Lo + 60 507 103 Sample 38414-01 Harong 38414-12 11/3/16 ワん 38413-01 Harony's 38413-15 Ŕ Dried in Hoods 38414-01 through 38414-152 Sanple Sieving to kn 38413-01 through 38413-15 BOWI + Sieve Cleaned as follows. Soap + Weter, DI, 16% HUG Beth, Tap, DI (Snin) 2nn stize 11/4/16 Sample spread out onte on alumnum cooking sheet evenly. 279 scooped 40 times across the whole sheet Incruental Sampling 小小 to give a total waight of 80 1 3643-01-860.20 38413-67-80.169 -62-80.060 -054643 -03-80.46 -69-50.27 -04-50.04 -10-50-17 -05-50.03 -06-56.28 -11-80.250 38414-62-80.20 38413-12-80.15 a -03-86.200 1/7/16 gr -13-80.34 -64.80.23 -14-80.449 -05-80.240 -15-80.400 38414-01-50.149 -07-80.21

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Sample Readiness Procedure Log

ARA SOP Ref	F. QA-801			Absolute Resource
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www.pacelabs.com

## **Report Prepared for:**

Aaron DeWees Resource Laboratory Inc 124 Heritage Avenue Unit 16 Portsmouth NH 03801

# REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

## **Report Prepared Date:**

November 30, 2016

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

## **Report Information:**

Pace Project #: 10369113 Sample Receipt Date: 11/08/2016 Client Project #: 38413 Client Sub PO #: 38413 State Cert #: 2007029

## 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 Scott Unze, your Pace Project Manager.

### This report has been reviewed by:

November 30, 2016

Scott Unze, Project Manager (612) 607-6383 (612) 607-6444 (fax) scott.unze@pacelabs.com



## **Report of Laboratory Analysis**

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

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



Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

## DISCUSSION

This report presents the results from the analyses performed on fifteen samples submitted by a representative of Absolute Resource Associates. 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. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 61-118%. 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.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show Blank-52781 to contain trace levels of selected congeners. These levels were below the calibration range of the method. The levels reported for the affected congeners in the associated field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory spike samples were also prepared with the sample batches using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 84-128%; these results were within the target range for the method. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

## **REPORT OF LABORATORY ANALYSIS**

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Report No.....10369113\_8290



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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
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lowa	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	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

## **REPORT OF LABORATORY ANALYSIS**

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Report No.....10369113

Report No.....10369113\_8290

# Appendix A

Sample Management

× V	/
Absolute Resource	

## SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

Client:	Absolute Resource Associates		Contact:	Aaron DeWee	es	Phone: 603-436-2001	Fax:	<u> </u>	Page of 2	
Report to:	Aaron DeWees/Jane Stratton		Address:	124 Heritage	Ave, #16	•	Project Name/Number:	3841	3	
Invoice to:	cathyd@absoluteresourceasso	ociates.com		Portsmouth, I	NH 03801	,	Project State:	NH N	MA (ME) VT	
PO#:38413	3 Quote #:	· • ·				· · · · · · · · · · · · · · · · · · ·	Protocol: RCRA SDWA N	IPDES MCP N	HDES Other	
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## SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

Client:	Absolute Resource Associates		Contact:	Aaron DeWee	s	Phone: 603-436-2001	l Fax:		Page Jof J
Report to:	Aaron DeWees/Jane Stratton		Address:	124 Heritage A	Ave, #16		Project Name/Number:	3841	3
Invoice to:	cathyd@absoluteresourceasso	ciates.com		Portsmouth, N	NH 03801		Project State:	NH	MA ME VT
PO#:38412	Quote #:					•	Protocol: RCRA SDWA N	DES MCP N	HDES Other
Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:
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Reporting Inst	tructions: PDF (Email Address: a	arond@absol	uteresource	associates.com;	: janes@absolu	uteresourceassocia	tes.com )		Received on ice?
	Excel File: Y / N								Тетр: 1_4°С
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Comments:									

Report No.....10369113\_8290

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Custody Seal on Cooler/Box Present?	No	Seals Int	act?	]Yes 🕅 No	Optio	nal: Proj.	Due Date:	Proj. I	Name:
Packing Material: 🔀 Bubble Wrap 🗌 Bub	ole Bags Nor	e 🗌	Other:	<u> </u>	<u> </u>	Temp	Blank?	Yes	No
hermometer   151401163   B88A     Used:   151401164   B88A     cooles:   151401164   Cooles:	912167504 Typ 0143310098	e of Ice:	Į Į Į	t 💢 Blue	None	Sample	s on ice, cooli	ng proce	ss has beg
emp should be above freezing to 6°C Correc	tion Factor: ~ ()	); <u>); )</u> ); ]	r <u>D</u> at	e and Initials c	of Person E	sue Frozen <i>r</i> xamining Co	ntents: //	1.8.16	, Niz
SDA Regulated Soil (	e United States: AL, ps)? out a Regulated Soi	AR, AZ, C, I <b>Checkli</b>	A, FL, GA, Yes st (F-MN	ID, LA. Dia [X]No inc Q-338) and inc	d samples or luding Hawa clude with	iginate from a ali and Puerto SCUR/COC p	foreign sourc Rico)? aperwork.	ce (intern	ationaily, 5 🕅
						COMME	NTS:		
hain of Custody Present?	<b>⊠</b> Yes	<u>No</u>	[]N/A	1.			. <u>.</u>		
hain of Custody Filled Out?	Yes	No	□n/a	2.					
hain of Custody Relinquished?	Yes	No	□n/A	3.					<b>.</b>
ampler Name and/or Signature on COC?	Yes	No	□n/a	4.					·
amples Arrived within Hold Time?		□No	⊡n/a	5.					
hort Hold Time Analysis (<72 hr)?	Yes	XNo	□N/A	6.					
ush Turn Around Time Requested?	∐ Yes	<b>X</b> No	⊡n/a	7.					
ufficient Volume?	X Yes	⊡No	⊡n/a	8.					
orrect Containers Used?	XYes	No	□n/A	9.					
-Pace Containers Used?	□Yes	No.	⊡n/a						
ontainers Intact?	X Yes	N₀		10.					
Itered Volume Received for Dissolved Tests?	 ∏Yes	 []]No		11. Note if s	sediment is	visible in the	dissolved co	ntainer	
ample Labels Match COC?	∐Yes	<b>⊠</b> No	<u>□</u> N/A	12. Date	eltime	lanaly	Isis or	714	on
-Includes Date/Time/ID/Analysis Matrix: <u>}</u> III containers needing acid/base preservation have hecked? III containers needing preservation are found to be compliance with EPA recommendation?	been Yes in	□No	XN/A	13. [ Sample #	<u></u> н№о₃	<u>O∩ 101</u> ∏H₂SO₄	DC∕I □NaOH		НСІ
HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 ( xceptions: VOA, Coliform, TOC, Oil and Grease, JRO/8015 (water) DOC	Cyanide) ∏Yes	□No	<b>∑</b> N/A	Initial when		Lot #	of added		
eadspace in VOA Vials ( >6mm)?			<u> </u>	14.		prese			
rip Blank Present?	∏Yes		<b>X</b> N/A	15.					
rip Blank Custody Seals Present?	Yes	[]]No	XN/A						
ace Trip Blank Lot # (if purchased):									
CLIENT NOTIFICATION/RESOLUTION						Field Data Re	equired?	η <sub>Yes</sub> Γ	٦No
erson Contacted: Aaron DeWees				Date/Time:	11/9/	/16 12:18		- · •	-
omments/Resolution:				-					
Method 8290 T-O needed;	ME-TEQ						<u>.</u>		
	N1. ~		· · · ·						
	<u> </u>		-				······································		
Project Manager Review:	1 HAAM	born.		D:	ate: 1	1/9/16			



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# **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**

Report No.....10369113

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Report No.....10369113\_8290

# Appendix B

Sample Analysis Summary


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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- <sup>-</sup> 1036 BAL 10.4 0.7 10.3 U16 <sup>-</sup> U16 BLA	I-1 (DPB) 9113001 1122C_05 g 1025 1122B_16 & NK-52766	U1611	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 11/08/20 11/11/20 11/23/20	016 08:40 016 09:40 016 17:05 016 02:56	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.28 3.10		0.098 0.098	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	68 77 78
2,3,7,8-TCDD Total TCDD	ND 0.12		0.110 0.110	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C	2.00 2.00 2.00	78 86 83
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.53 0.99 20.00		0.180 0.079 0.130	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	83 78 84 96 87
1,2,3,7,8-PeCDD Total PeCDD	1.50 5.00		0.096 0.096	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	)-13C )F-13C )F-13C	2.00 2.00 2.00 2.00	67 70 81
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	2.70 2.80 4.50	 	0.130 0.120 0.110	J J	1,2,3,4,6,7,8-HpCE OCDD-13C	DD-13C	2.00 2.00 4.00	79 90
1,2,3,7,8,9-HxCDF Total HxCDF	1.10 90.00		0.067 0.110	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	0-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	5.00 19.00 11.00 78.00	  	0.240 0.180 0.240 0.220		2,3,7,8-TCDD-37C	14	0.20	79
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	95.00 7.90 310.00		0.054 0.340 0.200		Total 2,3,7,8-TCD Equivalence: 3.4 n (Using MEDEP Fa	D g/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	430.00 670.00		0.350 0.350					
OCDF OCDD	360.00 3100.00		0.075 0.082					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection 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

## **REPORT OF LABORATORY ANALYSIS**

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- <sup>-</sup> 1036 BAL 10.5 0.6 10.4 U16 <sup>-</sup> U16 BLA	-2 (DPB) 9113002 122C_06 g 025 1122B_16 & NK-52766	U16112	22C_17	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 11/08/20 11/11/20 11/23/20	016 08:40 016 09:40 016 17:05 016 03:43	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.46 9.50		0.130 0.130	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	30	2.00 2.00 2.00	74 81 76
2,3,7,8-TCDD Total TCDD	0.28 2.60		0.098 0.098	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C	2.00 2.00 2.00	77 81 77
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.60 4.40 93.00	 	0.210 0.120 0.170	J J	1,2,3,4,7,6-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	77 73 81 95 78
1,2,3,7,8-PeCDD Total PeCDD	6.30 25.00		0.074 0.074		1,2,3,4,7,8-HxCDE 1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE	)-13C )F-13C )F-13C	2.00 2.00 2.00 2.00	61 67 78
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	14.00 11.00 15.00		0.160 0.120 0.110		1,2,3,4,6,7,8-HpCI OCDD-13C	DD-13C	2.00 2.00 4.00	77 93
1,2,3,7,8,9-HxCDF Total HxCDF	3.40 330.00		0.085 0.120	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	)-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	17.00 58.00 39.00 290.00	  	0.160 0.200 0.230 0.190		2,3,7,8-TCDD-37C	14	0.20	85
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	340.00 26.00 1100.00	 	0.043 0.430 0.240		Total 2,3,7,8-TCD Equivalence: 13 ng (Using MEDEP Fa	D g/Kg ictors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1400.00 2300.00		0.970 0.970					
OCDF OCDD	1500.00 12000.00		0.077 0.130	Е				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection 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

E = Exceeds calibration range

## **REPORT OF LABORATORY ANALYSIS**

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 U16 BAL 10.4 0.6 10.3 U16 U16 BLA	1-3 (DPB) 59113003 1122C_07 g 1025 1122B_16 & NK-52766	U1611	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/201 11/08/201 11/11/201 11/23/201	6 08:40 6 09:40 6 17:05 6 04:29	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	J	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.16 0.61		0.061 0.061	J J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-1	30.	2.00 2.00 2.00	85 91 83
2,3,7,8-TCDD Total TCDD	ND ND		0.096 0.096		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	84 91 86
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND  1.50	0.069	0.130 0.061 0.094	n 1	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	78 87 96 86
1,2,3,7,8-PeCDD Total PeCDD	0.14 0.14		0.091 0.091	J J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD 1,2,3,4,6,7,8-HpCD	-13C F-13C	2.00 2.00 2.00	70 73 83
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	0.30 0.32	0.250 	0.038 0.058 0.033	1 L	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	77 82
1,2,3,7,8,9-HxCDF Total HxCDF	7.30	0.084	0.033 0.040	IJ	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	0.40 1.10 0.78 4.90	  	0.081 0.095 0.170 0.110	J J J	2,3,7,8-TCDD-37Ck	4	0.20	98
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	8.70 0.62 28.00		0.046 0.071 0.059	J	Total 2,3,7,8-TCDE Equivalence: 0.28 r (Using MEDEP Fac	) ng/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	29.00 46.00		0.130 0.130					
OCDF OCDD	39.00 210.00		0.059 0.110					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection 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 - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-2 1036 U16 BAL 10.5 2.4 10.2 U16 U16 BLA	2-1 (DPSW) 9113004 1122C_08 g 025 1122B_16 & NK-52766	U1611	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 <sup>-</sup> 11/08/20 <sup>-</sup> 11/11/20 <sup>-</sup> 11/23/20 <sup>-</sup>	16 09:00 16 09:40 16 17:05 16 05:15	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.26 2.60		0.083 0.083	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	82 88 79
2,3,7,8-TCDD Total TCDD	ND 0.13		0.110 0.110	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,4,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	79 86 80
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.32 0.65 18.00	 	0.170 0.055 0.110	J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00	72 81 96
1,2,3,7,8-PeCDD Total PeCDD	1.40 4.60		0.074 0.074	J J	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCE 1,2,3,4,6,7,8-HpCE	0-13C 0F-13C 0F-13C	2.00 2.00 2.00 2.00	60 61 67 76
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	2.20 2.30 3.30	 	0.100 0.061 0.078	J J J	1,2,3,4,6,7,8-HpCE OCDD-13C	D-13C	2.00 4.00	74 83
1,2,3,7,8,9-HxCDF Total HxCDF	0.56 67.00		0.056 0.075	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	3.50 11.00 8.40 56.00	 	0.120 0.130 0.140 0.130	J	2,3,7,8-TCDD-37C	4	0.20	93
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	71.00 4.50 210.00		0.054 0.210 0.130	J	Total 2,3,7,8-TCD Equivalence: 2.5 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	250.00 410.00		0.330 0.330					
OCDF OCDD	250.00 1900.00		0.150 0.110					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-2 1036 U161 BAL 10.5 1.5 10.3 U161 U161 BLAN	2-2 (DPSW) 9113005 122C_09 g 025 122B_16 & NK-52766	U1611;	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 <sup>7</sup> 11/08/20 <sup>7</sup> 11/11/20 <sup>7</sup> 11/23/20 <sup>7</sup>	16 09:00 16 09:40 16 17:05 16 06:01	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.19 1.50		0.092 0.092	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDF-1	30	2.00 2.00 2.00	83 90 79
2,3,7,8-TCDD Total TCDD	ND 0.30		0.084 0.084	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	78 85 83
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.24 0.50 13.00	 	0.160 0.066 0.120	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00	78 87 97
1,2,3,7,8-PeCDD Total PeCDD	0.99 2.70		0.120 0.120	J J	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD 1,2,3,4,7,8,9-HpCD	0-13C 0F-13C 0F-13C 0F-13C	2.00 2.00 2.00 2.00	65 71 80
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	1.70 1.90 2.20		0.170 0.160 0.098	J J	1,2,3,4,6,7,8-HpCE OCDD-13C	D-13C	2.00 4.00	75 84
1,2,3,7,8,9-HxCDF Total HxCDF	0.40 49.00		0.073 0.120	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	2.30 7.60 5.70 39.00	  	0.110 0.120 0.180 0.140	J	2,3,7,8-TCDD-37C	4	0.20	93
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	51.00 3.50 150.00		0.035 0.170 0.100	J	Total 2,3,7,8-TCD Equivalence: 1.8 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	190.00 320.00		0.310 0.310					
OCDF OCDD	190.00 1400.00		0.120 0.086					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-2 1036 U161 BAL 10.3 1.8 10.1 U161 U161 BLAN	-3 (DPSW) 9113006 122C_10 g 025 122B_16 & √K-52766	U1611	22C_17	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 11/08/20 11/11/20 11/23/20	16 09:00 16 09:40 16 17:05 16 06:48	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	1	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.27 4.10		0.072 0.072	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDF-1	30	2.00 2.00 2.00	89 95 83
2,3,7,8-TCDD Total TCDD	0.15 0.57		0.074 0.074	J J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	83 87 84
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.46 0.99 31.00	 	0.230 0.086 0.160	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00	77 87 100 88
1,2,3,7,8-PeCDD Total PeCDD	2.30 8.30		0.083 0.083	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD 1,2,3,4,6,7,8-HpCD	0F-13C	2.00 2.00 2.00 2.00	66 72 82
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	3.70 4.10 5.60		0.140 0.160 0.069	J J	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	80 89
1,2,3,7,8,9-HxCDF Total HxCDF	0.94 110.00		0.071 0.110	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	5.90 18.00 14.00 92.00	  	0.190 0.200 0.200 0.200		2,3,7,8-TCDD-37C	4	0.20	98
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	120.00 7.70 360.00	 	0.077 0.350 0.210		Total 2,3,7,8-TCDI Equivalence: 4.2 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	410.00 700.00		0.350 0.350					
OCDF OCDD	410.00 2900.00		0.049 0.070					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-3 1036 U16 BAL 10.5 1.2 10.4 U16 U16 BLA	8-1 (PYSW) 99113007 1122C_11 g 025 1122B_16 & NK-52766	U1611	22C_17	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 <sup>7</sup> 11/08/20 <sup>7</sup> 11/11/20 <sup>7</sup> 11/23/20 <sup>7</sup>	16 10:00 16 09:40 16 17:05 16 07:34	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	J	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	9.70	0.30	0.075 0.075	IJ	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-1	30	2.00 2.00 2.00	82 88 79
2,3,7,8-TCDD Total TCDD	0.25 1.10		0.084 0.084	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	80 85 78
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.20 1.90 83.00		0.200 0.071 0.130	J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	78 72 81 92 78
1,2,3,7,8-PeCDD Total PeCDD	3.30 14.00		0.066 0.066	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD 1,2,3,4,6,7,8-HpCD	-13C 0F-13C 0F-13C	2.00 2.00 2.00 2.00	62 67 78
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	11.00 12.00 16.00	 	0.240 0.091 0.110		1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	75 85
1,2,3,7,8,9-HxCDF Total HxCDF	2.00 310.00		0.150 0.140	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	9.70 30.00 23.00 160.00	  	0.190 0.160 0.210 0.190		2,3,7,8-TCDD-37Cl	4	0.20	92
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	360.00 24.00 960.00	 	0.042 0.460 0.250		Total 2,3,7,8-TCDI Equivalence: 7.6 ng (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	700.00 1200.00		0.770 0.770					
OCDF OCDD	1200.00 5000.00		0.060 0.072	Е				

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-: 1036 BAL 10.3 0.9 10.2 U16 U16 BLA	3-2 (PYSW) 59113008 1122C_12 g f025 1122B_16 & NK-52766	U1611	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/20 11/08/20 11/11/20 11/23/20	016 10:00 016 09:40 016 17:05 016 08:20	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	J	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.23 5.80		0.110 0.110	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDE-1	30	2.00 2.00 2.00	89 95 86
2,3,7,8-TCDD Total TCDD	0.71	0.11	0.095 0.095	n 1	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	13C 13C 13C	2.00 2.00 2.00	85 91
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.73 1.20 50.00	 	0.210 0.120 0.170	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	80 91 104 86
1,2,3,7,8-PeCDD Total PeCDD	2.40 9.40		0.140 0.140	J	1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE 1,2,3,4,6,7,8-HpCE	0-13C DF-13C DF-13C	2.00 2.00 2.00	70 75 85
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	8.00 8.20 10.00		0.160 0.220 0.160		1,2,3,4,6,7,8-HpCI OCDD-13C	DD-13C	2.00 4.00	83 96
1,2,3,7,8,9-HxCDF Total HxCDF	1.40 220.00		0.087 0.160	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDE	D-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	8.10 21.00 16.00 110.00	  	0.140 0.140 0.250 0.180		2,3,7,8-TCDD-37C	14	0.20	96
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	270.00 20.00 750.00	 	0.048 0.430 0.240		Total 2,3,7,8-TCD Equivalence: 5.6 r (Using MEDEP Fa	D ig/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	560.00 920.00		0.650 0.650					
OCDF OCDD	980.00 4600.00		0.073 0.068	Е				

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 BAL 11.3 3.5 10.9 U16 U16 BLA	3-3 (PYSW) 59113009 1122C_13 9 1025 1122B_16 & NK-52766	U16112	22C_17	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/26/201 11/08/201 11/11/201 11/23/201	6 10:00 6 09:40 6 17:05 6 09:06	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.23 6.70		0.085 0.085	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-1	30	2.00 2.00 2.00	83 88 78
2,3,7,8-TCDD Total TCDD	0.38	0.094	0.072 0.072	ม ม	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	78 82 82
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.65 1.10 53.00	 	0.160 0.089 0.130	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	73 85 93 80
1,2,3,7,8-PeCDD Total PeCDD	2.40 8.50		0.150 0.150	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD 1,2,3,4,6,7,8-HpCD	-13C 0F-13C 0F-13C	2.00 2.00 2.00	64 69 79
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	6.90 7.90 11 00		0.083 0.130 0.049		1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	76 89
1,2,3,7,8,9-HxCDF Total HxCDF	1.20 200.00		0.098 0.091	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	7.10 19.00 15.00 110.00	  	0.440 0.200 0.240 0.290		2,3,7,8-TCDD-37Cl	4	0.20	94
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	250.00 17.00 670.00		0.190 0.220 0.200		Total 2,3,7,8-TCDI Equivalence: 5.1 ng (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	470.00 790.00		0.960 0.960					
OCDF OCDD	830.00 3400.00		2.800 11.000					

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-4 1036 U161 BAL 10.3 0.4 10.3 U161 U161 BLAI	⊢1 (PYB) 9113010 122C_14 g 025  122B_16 & \\K-52781	U1611	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/27/20 11/08/20 11/14/20 11/23/20	016 10:00 016 09:40 016 15:05 016 09:53	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	9.00	0.18	0.077 0.077	IJ	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	82 87 81
2,3,7,8-TCDD Total TCDD	0.62	0.12	0.095 0.095	n 1	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C	2.00 2.00 2.00	80 85 79
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.60 2.70 100.00		0.220 0.180 0.200	J J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	79 74 83 92 81
1,2,3,7,8-PeCDD Total PeCDD	4.40 17.00		0.170 0.170	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	)-13C )F-13C )F-13C	2.00 2.00 2.00	64 75 83
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	20.00 21.00 26.00		0.230 0.240 0.160		1,2,3,4,6,7,8-HpCE OCDD-13C	DD-13C	2.00 2.00 4.00	84 103
1,2,3,7,8,9-HxCDF Total HxCDF	4.00 520.00		0.180 0.200	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	0-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	15.00 54.00 33.00 250.00	  	0.220 0.190 0.420 0.280		2,3,7,8-TCDD-37C	14	0.20	95
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	680.00 55.00 2000.00	 	0.110 0.370 0.240		Total 2,3,7,8-TCD Equivalence: 13 no (Using MEDEP Fa	D g/Kg ictors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1500.00 2300.00		1.100 1.100					
OCDF OCDD	2500.00 12000.00		0.063 0.073	Е				

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-2 1036 U161 BAL 10.3 0.4 10.3 U161 U167 BLAI	I-2 (PYB) 9113011 122C_15 g 025 1122B_16 & NK-52781	U1611:	22C_1	Matrix Dilution Collected Received 7 Extracted Analyzed	Soil NA 10/27/20 11/08/20 11/14/20 11/23/20	16 10:00 16 09:40 16 15:05 16 10:39	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.21 8.60		0.091 0.190	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-1	30	2.00 2.00 2.00	91 98 88
2,3,7,8-TCDD Total TCDD	0.44	0.13	0.093 0.220	n 1	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C -13C	2.00 2.00 2.00	84 92 88
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.90 3.00 110.00	 	0.210 0.110 0.210	1 J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	84 95 105 94
1,2,3,7,8-PeCDD Total PeCDD	4.10 13.00		0.360 0.540	J	1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE 1,2,3,4,6,7,8-HpCE	0-13C 0F-13C 0F-13C	2.00 2.00 2.00	72 85 93
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	22.00 22.00 27.00		0.340 0.210 0.230		1,2,3,4,6,7,8-HpCI OCDD-13C	DD-13C	2.00 4.00	96 118
1,2,3,7,8,9-HxCDF Total HxCDF	4.60 600.00		0.160 0.340	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDE	0-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	17.00 60.00 37.00 270.00	  	1.700 0.660 0.620 1.100		2,3,7,8-TCDD-37C	14	0.20	102
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	740.00 59.00 2300.00	 	0.740 3.600 2.700		Total 2,3,7,8-TCD Equivalence: 13 ng (Using MEDEP Fa	D g/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1500.00 2500.00		4.500 6.000					
OCDF OCDD	2800.00 13000.00		0.032 0.170	E				

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#### Method 8290 Sample Analysis Results

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Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-4 1036 F16 BAL 10.4 10.4 F16 F16 BLA	4-3 (PYB) 59113012 1120B_10 g 1011 1120A_09 & NK-52781	F161120E	Matrix Dilution Collected Received 8_15 Extracted Analyzed	Soil NA 10/27/201 11/08/201 11/14/201 11/20/201	6 10:00 6 09:40 6 15:05 6 18:44	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 4.60		0.38 0.38	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PoCDE-1	30	2.00 2.00 2.00	83 93 87
2,3,7,8-TCDD Total TCDD	ND 0.31		0.26 0.26 J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 3C	2.00 2.00 2.00	75 81
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.80 3.30 120.00		0.19 J 0.18 J 0.18	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	95 94 92 97 79
1,2,3,7,8-PeCDD Total PeCDD	5.80 20.00		0.21 0.21	1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	-13C 9F-13C	2.00 2.00 2.00	76 73 71
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	21.00 20.00 27.00		0.39 0.55 0.34	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	88 71
1,2,3,7,8,9-HxCDF Total HxCDF	4.40 710.00		0.60 J 0.47	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	23.00 67.00 46.00 340.00	  	0.50 0.38 0.30 0.40	2,3,7,8-TCDD-37CI	4	0.20	89
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	650.00 58.00 2100.00	 	0.61 1.50 1.00	Total 2,3,7,8-TCDI Equivalence: 16 ng (Using MEDEP Fa	) /Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1800.00 2800.00		0.15 0.15				
OCDF OCDD	3100.00 16000.00		0.14 0.12 E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection 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

E = Exceeds calibration range

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-{ 1036 F161 BAL 10.5 0.5 10.4 F161 F16 BLA	5-1 (PYSW) 9113013 120B_11 g 011 120A_09 & NK-52781	F16112	20B_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Soil NA 10/28/201 11/08/201 11/14/201 11/20/201	6 12:30 6 09:40 6 15:05 6 19:32	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 3.20		0.23 0.23		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDE-1	30	2.00 2.00 2.00	77 89 77
2,3,7,8-TCDD Total TCDD	ND ND		0.21 0.21		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 12C	2.00 2.00 2.00	70 73
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.87 1.50 38.00	 	0.26 0.22 0.24	1 J	1,2,3,4,7,0-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,4,7,8,9-HXCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	89 88 92 74
1,2,3,7,8-PeCDD Total PeCDD	1.50 3.10		0.23 0.23	J J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	-13C 0F-13C	2.00 2.00 2.00	73 67 65
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	6.10 6.10 8.20		0.33 0.26 0.26		1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 2.00 4.00	79 61
1,2,3,7,8,9-HxCDF Total HxCDF	200.00	1.9	0.37 0.31	IJ	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	5.10 22.00 11.00 97.00	  	0.53 0.31 0.39 0.41		2,3,7,8-TCDD-37Cl	4	0.20	86
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	200.00 14.00 570.00	 	0.60 0.89 0.75		Total 2,3,7,8-TCDI Equivalence: 4.4 ng (Using MEDEP Fa	) g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	560.00 880.00		1.40 1.40					
OCDF OCDD	790.00 4500.00		0.12 0.34					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-{ 1036 F161 BAL 10.4 0.5 10.3 F161 F16 <sup>7</sup> BLA	5-2 (PYSW) 59113014 1120B_12 g 011 1120A_09 & NK-52781	F16112	20B_1	Matrix Dilution Collected Received 15 Extracted Analyzed	Soil NA 10/28/2 11/08/2 11/14/2 11/20/2	016 12:30 016 09:40 016 15:05 016 20:20	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 0.53		0.13 0.13	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-TCDD-13C	30	2.00 2.00 2.00	82 90 76
2,3,7,8-TCDD Total TCDD	ND ND		0.13 0.13		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	13C 13C 13C	2.00 2.00 2.00	70 70 74 87
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.27	0.41	0.15 0.11 0.13	n 1	1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,4,7,8-HXCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	91 92 91 77
1,2,3,7,8-PeCDD Total PeCDD	0.94	0.72	0.24 0.24	ม เ	1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE 1,2,3,4,6,7,8-HpCE	0-13C DF-13C DF-13C	2.00 2.00 2.00	75 68 68
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	2.30 2.10 2.90	 	0.27 0.18 0.24	J J J	1,2,3,4,6,7,8-HpCI OCDD-13C	DD-13C	2.00 4.00	79 61
1,2,3,7,8,9-HxCDF Total HxCDF	0.53 69.00		0.19 0.22	Ĵ	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDE	D-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	2.90 9.00 5.60 42.00	  	0.31 0.27 0.41 0.33	J	2,3,7,8-TCDD-37C	14	0.20	84
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	74.00 5.30 220.00		0.56 0.91 0.73		Total 2,3,7,8-TCD Equivalence: 1.9 r (Using MEDEP Fa	D ig/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	230.00 360.00	 	1.70 1.70					
OCDF OCDD	340.00 1900.00		0.24 0.35					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-5 1036 F161 BAL 10.6 0.5 10.5 F161 F161 BLAI	5-3 (PYSW) 9113015 120B_13 g 011 120A_09 & NK-52781	F16112	0B_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Soil NA 10/28/20 11/08/20 11/14/20 11/20/20	16 12:30 16 09:40 16 15:05 16 21:08	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 0.25		0.22 0.22	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	80 91 79
2,3,7,8-TCDD Total TCDD	ND ND		0.18 0.18		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,4,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	74 76 90
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.24 0.46 16.00	 	0.17 0.14 0.16	J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00	90 94 92 79
1,2,3,7,8-PeCDD Total PeCDD	0.69 0.69		0.32 0.32	J J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	-13C )F-13C )F-13C	2.00 2.00 2.00 2.00	72 69 68
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	2.90 2.80 4.10		0.40 0.39 0.21	J J	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	80 63
1,2,3,7,8,9-HxCDF Total HxCDF	0.88 110.00		0.30 0.33	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	2.70 9.60 5.10 42.00	  	0.33 0.35 0.37 0.35	J	2,3,7,8-TCDD-37Cl	4	0.20	82
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	130.00 9.30 470.00		0.68 0.70 0.69		Total 2,3,7,8-TCDI Equivalence: 2.3 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	220.00 350.00		1.40 1.40					
OCDF OCDD	670.00 1700.00		0.25 0.25					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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EDL = Estimated Detection Limit

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#### Method 8290 Blank Analysis Results

	1		
Lab Sample ID	BLANK-52766	Matrix	Solid
Filename	F161116A_08	Dilution	NA
Total Amount Extracted	75.0 g	Extracted	11/11/2016 17:05
ICAL ID	F161011	Analyzed	11/16/2016 17:53
CCal Filename(s)	F161116A_01 & F161116A_16	Injected By	SMT

Native Isomers	<b>Conc</b> ng/Kg	EMPC ng/Kg	<b>EDL</b> ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND ND		0.0200 0.0200	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PecDE-13C	2.00 2.00 2.00	72 84 78
2,3,7,8-TCDD Total TCDD	ND ND		0.0160 0.0160	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,7,8-PeCDD-13C	2.00 2.00 2.00	73 78 83
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND ND	 	0.0073 0.0068 0.0071	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00 2.00	89 90 88
1,2,3,7,8-PeCDD Total PeCDD	ND ND		0.0120 0.0120	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00 2.00	80 70 72 74
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND	 	0.0098 0.0075 0.0091	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 4.00	85 71
Total HxCDF	ND ND		0.0120 0.0095	1,2,3,4-1CDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND	  	0.0120 0.0160 0.0140 0.0140	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND	 	0.0086 0.0130 0.0110	Total 2,3,7,8-TCDD Equivalence: 0.00 ng/Kg (Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND ND		0.0110 0.0110			
OCDF OCDD	ND	0.033	0.0220 0.0210 JJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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#### Method 8290 Blank Analysis Results

	1		
Lab Sample ID	BLANK-52781	Matrix	Solid
Filename	U161119A_03	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	11/14/2016 15:05
ICAL ID	U161025	Analyzed	11/19/2016 08:02
CCal Filename(s)	U161118B_16 & U161119A_16	Injected By	BAL

Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND ND		0.064 0.064	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-TCDD-13C	2.00 2.00 2.00	68 84 60
2,3,7,8-TCDD Total TCDD	ND ND		0.058 0.058	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.00 2.00 2.00	53 57 75
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND 0.11	 	0.070 0.049 0.059 J	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00 2.00	74 80 88
1,2,3,7,8-PeCDD Total PeCDD	ND ND		0.086 0.086	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,6,7,8-HpCDF-13C	2.00 2.00 2.00 2.00	78 72 79 82
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND		0.044 0.037 0.045	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	94 75
1,2,3,7,8,9-HxCDF Total HxCDF	ND ND		0.059 0.046	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND	  	0.050 0.074 0.056 0.060	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND	 	0.047 0.072 0.060	Total 2,3,7,8-TCDD Equivalence: 0.00011 ng/Kg (Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND 0.15		0.088 0.088 J			
OCDF OCDD	ND 0.38		0.110 0.140 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

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

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## Method 8290 Laboratory Control Spike Results

Lab Sample ID Filename Total Amount Extracted ICAL ID CCal Filename(s) Method Blank ID	LC F1 75 F1 F1 BL	/ CS-52767 61116A_06 5.9 g 61011 61116A_01 & _ANK-52766	F161116A	Matrix Dilution Extracted _16 Analyzed Injected By	Solid NA 11/11/2016 1 11/16/2016 1 SMT	7:05 6:16
Native Isomers	<b>Qs</b> (ng)	<b>Qm</b> (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.20	0.23	116	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	2.0 2.0	67 78
2,3,7,8-TCDD Total TCDD	0.20	0.17	84	1,2,3,7,8-PeCDF-13C 2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.0 2.0 2.0	75 71 78
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.0 1.0	1.1 1.2	113 118	1,2,3,4,7,8-HXCDF-13C 1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C 1,2,3,4,7,8,9-HxCDF-13C	2.0 2.0 2.0 2.0	76 83 84 82 75
1,2,3,7,8-PeCDD Total PeCDD	1.0	0.98	98	1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,6,7,8-HpCDF-13C	2.0 2.0 2.0 2.0	66 66 69
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	1.0 1.0 1.0	1.2 1.1 1 1	119 112 105	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.0 2.0 4.0	78 67
1,2,3,7,8,9-HxCDF Total HxCDF	1.0	1.0	103	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.0 2.0	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	1.0 1.0 1.0	1.0 1.3 1.2	105 128 117	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	1.0 1.0	1.0 0.94	102 94			
1,2,3,4,6,7,8-HpCDD Total HpCDD	1.0	0.89	89			
OCDF OCDD	2.0 2.0	2.3 2.1	115 106			

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

## **REPORT OF LABORATORY ANALYSIS**

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## Method 8290 Laboratory Control Spike Results

Lab Sample ID Filename Total Amount Extracted ICAL ID CCal Filename(s) Method Blank ID	LC U1 10 U1 U1 BL	/ S-52782 61119A_01 .1 g 61025 61118B_16 & ANK-52781	U161119A	Matrix Dilution Extracted _16 Analyzed Injected By	Solid NA 11/14/2016 15 11/19/2016 06 BAL	:05 :31
Native Isomers	<b>Qs</b> (ng)	<b>Qm</b> (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	2.0 2.0	80 95
2,3,7,8-TCDD Total TCDD	0.20	0.18	88	1,2,3,7,8-PeCDF-13C 2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.0 2.0 2.0	59 70
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.0 1.0	1.1 1.1	107 110	1,2,3,4,7,0-HXCDF-13C 1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.0 2.0 2.0 2.0	75 74 82 89 83
1,2,3,7,8-PeCDD Total PeCDD	1.0	0.99	99	1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,6,7,8-HpCDF-13C	2.0 2.0 2.0	71 79 83
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2 3 4 6 7 8-HxCDF	1.0 1.0 1.0	1.1 1.1 1.0	110 107 104	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.0 2.0 4.0	91 66
1,2,3,7,8,9-HxCDF Total HxCDF	1.0	1.0	102	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.0 2.0	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	1.0 1.0 1.0	1.1 1.2 1.2	111 117 122	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	1.0 1.0	1.1 1.0	113 101			
1,2,3,4,6,7,8-HpCDD Total HpCDD	1.0	1.0	103			
OCDF OCDD	2.0 2.0	2.1 2.2	107 111			

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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## **Report Prepared for:**

Aaron DeWees Resource Laboratory Inc 124 Heritage Avenue Unit 16 Portsmouth NH 03801

## REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

#### **Report Prepared Date:**

December 1, 2016

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **Report Information:**

Pace Project #: 10369117 Sample Receipt Date: 11/08/2016 Client Project #: 38414 Client Sub PO #: 38414 State Cert #: 2007029

#### 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 Scott Unze, your Pace Project Manager.

#### This report has been reviewed by:

December 01, 2016 Scott Unze, Project Manager (612) 607-6383 (612) 607-6444 (fax) scott.unze@pacelabs.com



#### **Report of Laboratory Analysis**

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



Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **DISCUSSION**

This report presents the results from the analyses performed on twelve samples submitted by a representative of Absolute Resource Associates. 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. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 54-188%. Except for two elevated 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.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also 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. The levels reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

A laboratory spike sample was 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 88-122%; these results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

## **REPORT OF LABORATORY ANALYSIS**

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## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
lowa	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	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

## **REPORT OF LABORATORY ANALYSIS**

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Report No.....10369117

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# Appendix A

Sample Management

<u>Absolute</u>	Resource	JBCONTI	RACT CI	HAIN OF	CUSTOD	Y DOCUMEN	TATION		10369117	
Client:	Absolute Resource Associates		Contact:	Aaron DeWee	25	Phone: 603-436-2001	Fax:		Page ) of	2
Report to:	Aaron DeWees/Jane Stratton		Address:	124 Heritage	Ave, #16		Project Name/Number:	38411	4	2
Invoice to:	cathyd@absoluteresourceasso	ciates.com		Portsmouth, I	NH 03801	Project State: NH				
PO#: 28414	Quote #:	<i>t</i> :					Protocol: RCRA SDWA NPDES MCP NHDES Other			<u> </u>
Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:	
	SU-10-1 (PUB)	1028	1300			G		S	Dioxin	Cril
	SU-10-2 1	5				1			, a	52
	84-6-3 -		L						Cr	5
	SU-7-1 (PYSW)		1500						G	24
	54-7-2 1								Cu	6
	Su-7-3 -		1						00	Ū.
	\$4-8-1 (PYSW)		1510		·				60	7
	SU-8-2 1		(						608	Ś
	SU-8-3 1		L					}	009	1
,	54-9-1 (DPSW)		1420						010	
	Su-9-2 V		¥			V		Y	V on	
Subcontract Labo	ratory:									
Relinguished by:		Date:	Time:	<del></del>	Received by:	Matasha	1PACE		Date: 11-8-16	Time: 9:40
Relinquished by:		Date:	Time:		Received by:	· <u>uerter</u>			Date:	Time:
Relinguished by:		Date:	Time:		Received by:				Date:	Time:
Reporting Inst	ructions: <u>PDF</u> (Email Address: a	arond@absolu	iteresourcea	ssociates.com	; janes@abso	luteresourceassociat	es.com )		Received N	l on ice?
	Excel File: Y / N								Temp:	1.4°C
TAT Requested: F	Priority (24hr) Expedited (48hr)	10 Busines	s days	Date needed:						
Comments:										

Report No.....10369117\_8290

Page 5 of 23

# Absolute Resource

## SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

Client:	Absolute Resource	Associates		Contact:	Aaron DeWee	s	Phone: 603-436-2001	Fax: Page 2 of 2			Lof J
Report to:	Aaron DeWees/Jan	e Stratton		Address:	124 Heritage /	Ave, #16		Project Name/Number:	38414		
Invoice to:	cathyd@absolutere	sourceasso	ciates.com		Portsmouth, N	VH 03801	· · · · · · · · · · · · · · · · · · ·	Project State:	NH N	ла (МЕ)	VT
PO#:38414	Quote #:							Protocol: RCRA SDWA NPDES MCP NHDES Other			
Lab Number: (assigned by laboratory)	Field ID: (must agree with c	ontainer)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested Special Instructions:	
	SU-9-3 (1	opsw)	10/28	1420	 		G		S	Didxir	1 01Z
				-							
											·· · · · · ·
					1						
			,								
	1						1				
Subcontract Labo	ratory:										
Relinquished by:			Date:	Time:		Received by:	Hatachie	/ PACE		Date: 11-8-16	7 Time: 9:40
Relinquished by:			Date:	Time:		Received by:	-	<i>t</i>		Date:	Time:
Relinquished by:			Date:	Time:		Received by:				Date:	Time:
Reporting Inst	ructions: <u>PDF</u> (Email	Address: aa	arond@absolu	iteresourcea	associates.com;	janes@absolu	teresourceassociat	es.com )		Recei Y	ved on ice? N
	Excel File:	Y / N								Temp	: 1.40C
TAT Requested: P	riority (24hr) Expec	dited (48hr)	10 Busines	ss days	Date needed:		•	<u> </u>		•	
Comments:											

Page 6 of 23

QSD-21 4/15/16 Rev0 ajd (pg 1/1)

		Т	Document Name:					Document Revised: 074ug2016			
	<b>1</b>	,*	Sample Cor	ndition U	pon Rece	ipt Form Page 1 of 2				52010	
	Pace Analytical			nt No.:		Issuing Authority:					
	l		F-	MN-L-21	3-rev.17		Pace Minnesota Quality Office				
Sample Co Upon Re	ndition ceipt AbSolute 1	Resour	re Assa	ciate	Project	:#: <b>        </b>		1036	911	7	
Courier:	Fed Ex		USPS		Client						See See
Commer	rcial 🗌 Pace	SpeeDe	e 🗌 Other			1036	9117		∎∎2/3 <i>20</i> 12.01 8 6		
Tracking N	Number: 17 317 E	END Q	1 6599 2	557			Spice St.			10 (V)	
Custody Se	eal on Cooler/Box Present?	Yes	XNo	Seals In	tact?	Yes 🕱 N	Ор	tional: Pro	j. Due Date	:: Proj	Name:
Packing Ma	aterial: 🕱 Bubble Wrap	Bubble	Bags 🗌 No:	ne 🗌	Other:			Tem	p Blank?	Yes	No
Thermome Used:	eter 7 151401163	B88A912	167504 Ty 3310098	pe of Ice:	Xw.	et 🕅 Blue	Nor	ne 🗌 Samp	les on ice, c	ooling proc	ess has begu
Temp should	the above freezing to 6°C	Cooler Lem	p Corrected (*C	과: <u></u> 노고	7 Dat	B and Initials	iological of Person	Tissue Frozei Sevenining (	n? ∐Ye Contents:	s ∐No µ.Q./	o <u>M</u> iN/A ∕⊶ Nativ
USDA Regul	ated Soil (	nole)		<u>~1</u>		c and Antiais	oi reisoi	r chaininnig v	contents.	11 01	6 NK
Did samples	originate in a quarantine zone	within the U	nited States: AL,	AR, AZ, C	A <u>, F</u> L, GA,	ID, LA. D	id sample:	s originate fron	n a foreign s	ource (inte	rnationally,
MS, NC, NM,	NY, OK, OR, SC, TN, TX or VA (	check maps)	- DI-bI C-	ti ch a duit	Yes	No in	cluding Ha	awaii and Puer	to Rico)?	. □Y	es 🔀 N
	If Yes to either ques	tion, fill out	a Regulated So		ST (F-MIN	-Q-338) and in	clude wi	th SCUR/COU	paperwoi	'k.	
Chain of Cu	urtadu Bracont?		17/v			1			IEIN I S:		
Chain of Cu	istody Filed Out?		Tres State			1.					
Chain of Cu	istody Filled Out?		XYes			2.					
Chain of Cu	Istody Relinquished?		Yes	∐X]No —	N/A	3.					
Sampler Na	ame and/or Signature on COC?		Yes	<u>X</u> No	N/A	4.					
Samples Ari	rived within Hold Time?		Yes	No	□n/A	5.					
Short Hold	Time Analysis (<72 hr)?		Yes	No	□N/A	6.					
Rush Turn /	Around Time Requested?		Yes	<b>⊠</b> No_	□N/A	7.					
Sufficient V	olume?		X Yes	No		8.					
Correct Con	ntainers Used?		🔀 Yes	□No	□n/a	9.					
-Pace Co	ntainers Used?		Yes	No	∐n/a						
Containers	Intact?		X Yes	ΠNο	□n/a	10.			<del>.</del>	-	
Filtered Vol	lume Received for Dissolved Te	ests?	☐ Yes	No	<b>⊠</b> N/A	11. Note if	sediment	is visible in th	e dissolved	container	
Sample Lab	els Match COC?		Yes	XNo	□n/a	12. Dat	eltin	nelanal	ysis	only	on
-Includes	s Date/Time/ID/Analysis Mat	rix:				Coc	not	on 1a	bel	.)	
All containe	ers needing acid/base preserva	ition have bee	en	_	_	13.		Пн₂ѕо₄		ЭН	Пнсі
All containe	ers needing preservation are fo	ound to be in	Yes	LINo	XJN/A	Sample #		<b>Hand</b> (1) <b>2</b> 4			
compliance	with EPA recommendation?										
(HNO <sub>3</sub> , H <sub>2</sub> S Excentions:	304, HCl<2; NaOH >9 Sulfide, N VOA_Coliform_TOC_Oil and G	laOH>12 Cyar	nide) 🗌 Yes	<u>∏</u> No	<b>IX</b> N∕A	Initial when		lat	t of oddod		
DRO/8015 (	(water) DOC	neuse,	Yes	□No	₩N/A	completed:		pres	servative:		
Headspace	in VOA Vials ( >6mm)?		Yes	No	201 2010/A	14.					
Trip Blank P	Present?		Yes	No	XXN/A	15.				-	
Trip Blank C	Custody Seals Present?		Yes	□No	XN/A						
Pace Trip Bl	ank Lot # (if purchased):										
	CLIENT NOTIFICATION/RESC	DUTION						Field Data	Required?	Yes	No
ι						Date/Time					
Person Con	tacted:									·	
Person Con Comments/	ntacted: /Resolution:										
Person Con Comments/	rtacted: /Resolution:										
Person Con Comments,	rtacted:/Resolution:										
Person Con Comments,	roject Manager Review:				ъ		ate:	11/9/16			

 $\mathcal{A}^{\dagger}$ 



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# **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**

Report No.....10369117

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# Appendix B

Sample Analysis Summary



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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16 BAL 10.3 0.2 10.3 F16 F16 BLA	6-1 (PYB) 59117001 1121A_02 9 9 1011 1120B_15 & NK-52781	F161121	Matrix Dilution Collected Received 1A_15 Extracted Analyzed	Solid NA 10/28/2010 11/08/2010 11/14/2010 11/21/2010	6 13:00 6 09:40 6 15:05 6 00:21	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 1.10		0.24 0.24	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C		2.00 2.00	83 94
2,3,7,8-TCDD Total TCDD	ND ND		0.13 0.13	1,2,3,7,8-PeCDF-1, 2,3,4,7,8-PeCDF-1; 1,2,3,7,8-PeCDD-1	3C 3C 3C	2.00 2.00 2.00	82 75 78
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.69  33.00	 1.3 	0.34 0.20 0.27	I,2,3,4,7,8-HXCDF J 1,2,3,6,7,8-HXCDF J 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8,9-HXCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00	89 97 97 97 82
1,2,3,7,8-PeCDD Total PeCDD	2.40 4.50		0.23 J 0.23 J	J 1,2,3,4,7,8-HxCDD J 1,2,3,6,7,8-HxCDD J 1,2,3,4,6,7,8-HpCD	-13C F-13C F-13C	2.00 2.00 2.00	73 72 71
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	5.30 4.30 6.50		0.47 0.60 0.57	1,2,3,4,7,6,9-1 IPCD 1,2,3,4,6,7,8-HpCD J OCDD-13C	D-13C	2.00 2.00 4.00	82 76
1,2,3,7,8,9-HxCDF Total HxCDF	1.60 180.00		0.30 0.49	J 1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	7.30 29.00 16.00 130.00	  	0.43 0.48 0.68 0.53	2,3,7,8-TCDD-37Ck	4	0.20	88
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	140.00 12.00 510.00	 	0.66 1.20 0.94	Total 2,3,7,8-TCDI Equivalence: 5.3 ng (Using MEDEP Fa	) g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	670.00 1100.00		2.50 2.50				
OCDF OCDD	710.00 5700.00		0.21 0.22 [	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

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

J = Estimated value

E = Exceeds calibration range

I = Interference present

## **REPORT OF LABORATORY ANALYSIS**

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16 BAL 10.5 0.2 10.5 F16 F16 BLA	6-2 (PYB) 59117002 1121A_03 9 9 1011 1120B_15 & NK-52781	F16112	21A_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	016 13:00 016 09:40 016 15:05 016 01:09	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 4.7		0.36 0.36		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	20	2.00 2.00	80 90 70
2,3,7,8-TCDD Total TCDD	ND ND		0.20 0.20		1,2,3,7,8-PeCDF-1 2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C 13C	2.00 2.00 2.00	79 74 76
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	2.7 68.0	1.2 	0.32 0.16 0.24	n J	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	91 94 97 97 82
1,2,3,7,8-PeCDD Total PeCDD	4.2 13.0		0.35 0.35	J	1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE	0-13C 0F-13C 0F-13C	2.00 2.00 2.00	75 72 73
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	12.0 11.0		1.40 0.96		1,2,3,4,6,7,8-HpCL 0CDD-13C	DD-13C	2.00 2.00 4.00	88 75
1,2,3,7,8,9-HxCDF Total HxCDF	210.0	2.7	0.30 0.46 0.78	IJ	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	)-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	16.0 55.0 34.0 240.0	  	0.69 0.92 0.82 0.81		2,3,7,8-TCDD-37C	14	0.20	87
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	350.0 34.0 1300.0	 	1.20 1.50 1.40		Total 2,3,7,8-TCD Equivalence: 11 no (Using MEDEP Fa	D g/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1400.0 2200.0		2.90 2.90					
OCDF OCDD	1800.0 12000.0		0.15 0.20	E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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J = Estimated value

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I = Interference present

## **REPORT OF LABORATORY ANALYSIS**

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16 BAL 10.4 0.2 10.4 F16 F16 BLA	6-3 (PYB) 69117003 1121A_04 - 9 1011 1120B_15 & NK-52781	6 F16112	21A_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	016 13:00 016 09:40 016 15:05 016 01:58	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 1.7		0.26 0.26		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	20	2.00 2.00	80 90
2,3,7,8-TCDD Total TCDD	ND ND		0.17 0.17		1,2,3,7,8-PeCDF-1 2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 13C	2.00 2.00 2.00	78 72 75
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	2.1 52.0	0.98 	0.23 0.18 0.20	1 N	1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	91 96 97 94 79
1,2,3,7,8-PeCDD Total PeCDD	3.3 8.4		0.23 0.23	J	1,2,3,6,7,8-HxCDE 1,2,3,4,6,7,8-HxCDE 1,2,3,4,6,7,8-HpCE	0-13C 0F-13C	2.00 2.00 2.00	76 71 70
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	8.1 7.3		0.76 0.80 0.38		1,2,3,4,6,7,8-HpCL 0CDD-13C	DD-13C	2.00 2.00 4.00	84 67
1,2,3,7,8,9-HxCDF Total HxCDF	2.1 170.0		0.38 0.48 0.61	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	)-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	12.0 45.0 24.0 190.0	 	0.66 0.56 0.68 0.63		2,3,7,8-TCDD-37C	14	0.20	86
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	240.0 20.0 800.0	 	1.10 1.40 1.20		Total 2,3,7,8-TCD Equivalence: 8.0 n (Using MEDEP Fa	D g/Kg ictors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	1000.0 1600.0		2.50 2.50					
OCDF OCDD	1100.0 7900.0		0.18 0.20	E				

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-7 1036 F16 BAL 10.3 0.9 10.2 F16 F16 BLA	7-1 (PYSW) 69117004 1121A_05 g 0011 1120B_15 & NK-52781	F16112	21A_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	016 15:00 016 09:40 016 15:05 016 02:46	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 1.10		0.200 0.200		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	78 88 75
2,3,7,8-TCDD Total TCDD	ND ND		0.160 0.160		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 3C	2.00 2.00 2.00	69 70 87
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.48 8.50	0.23	0.130 0.090 0.110	1 N	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	91 92 92 74
1,2,3,7,8-PeCDD Total PeCDD	0.37	0.56	0.250 0.250	n 1	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	-13C )F-13C )F-13C	2.00 2.00 2.00	72 66 67
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	1.50 1.30 2.30		0.350 0.280 0.180	J J J	1,2,3,4,6,7,8-HpCE OCDD-13C	D-13C	2.00 4.00	76 56
1,2,3,7,8,9-HxCDF Total HxCDF	ND 45.00		0.390 0.300		1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	2.60 7.70 5.30 24.00	  	0.420 0.480 0.580 0.490	J	2,3,7,8-TCDD-37C	4	0.20	80
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	50.00 3.50 150.00		0.590 0.770 0.680	J	Total 2,3,7,8-TCDI Equivalence: 1.5 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	200.00 320.00		1.300 1.300					
OCDF OCDD	230.00 1700.00		0.120 0.320					

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EDL = Estimated Detection Limit

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-7 1036 F161 BAL 10.4 1.0 10.3 F161 F161 BLAN	7-2 (PYSW) 9117005 121A_06 g 011 120B_15 & √K-52781	F16112	1A_15	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/201 11/08/201 11/14/201 11/21/201	6 15:00 6 09:40 6 15:05 6 03:34	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 0.36		0.17 0.17	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-1	30.	2.00 2.00 2.00	75 85 75
2,3,7,8-TCDD Total TCDD	ND ND		0.15 0.15		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 13C	2.00 2.00 2.00	69 72 87
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND 3.30		0.17 0.12 0.15	J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00	91 95 93 75
1,2,3,7,8-PeCDD Total PeCDD	 ND	0.22	0.19 0.19	ม	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	-13C F-13C F-13C	2.00 2.00 2.00 2.00	76 65 63
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	  0.75	0.36 0.45 	0.26 0.24 0.22	ม ม ม	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 2.00 4.00	72 54
1,2,3,7,8,9-HxCDF Total HxCDF	ND 12.00		0.17 0.22		1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	1.00 2.30  12.00	 1.50 	0.22 0.25 0.27 0.25	ก า า	2,3,7,8-TCDD-37Ck	4	0.20	79
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	16.00 1.20 45.00	 	0.43 0.40 0.41	J	Total 2,3,7,8-TCDE Equivalence: 0.46 r (Using MEDEP Fac	) ng/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	60.00 96.00		0.80 0.80					
OCDF OCDD	60.00 440.00		0.30 0.24					

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16 BAL 10.3 1.2 F16 F16 BLA	7-3 (PYSW) 59117006 1121A_07 g 1011 1120B_15 & NK-52781	F16112	21A_1	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	16 15:00 16 09:40 16 15:05 16 04:22	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	EDL ng/Kg	I	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND ND		0.180 0.180		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30	2.00 2.00 2.00	83 92 81
2,3,7,8-TCDD Total TCDD	ND ND		0.150 0.150		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C 12C	2.00 2.00 2.00	74 78
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND 0.17 3.20		0.100 0.077 0.090	J J	1,2,3,4,7,6-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,4,7,8,9-HXCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	90 96 98 95 76
1,2,3,7,8-PeCDD Total PeCDD	0.32	0.13	0.110 0.110	n 1	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCE	-13C 0F-13C	2.00 2.00 2.00	79 70 67
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	0.42 0.40 0.65		0.300 0.190 0.180	J J J	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 2.00 4.00	77 56
1,2,3,7,8,9-HxCDF Total HxCDF	ND 12.00		0.200 0.220	0	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	0.63 1.70 9.20	 1.20 	0.230 0.200 0.200 0.210	ก 1 1	2,3,7,8-TCDD-37C	4	0.20	87
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	15.00 1.30 46.00		0.310 0.500 0.400	J	Total 2,3,7,8-TCDI Equivalence: 0.38 (Using MEDEP Fa	D ng/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	51.00 81.00		0.750 0.750					
OCDF OCDD	67.00 410.00		0.300 0.290					

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16 BAL 10.5 1.5 10.3 F16 F16 BLA	8-1 (PYSW) 69117007 1121A_08 g g 1011 1120B_15 & NK-52781	F161121A_	Matrix Dilution Collected Received 15 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	16 15:10 16 09:40 16 15:05 16 05:10	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 5.50		0.27 0.27	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-TCDD-13C	30	2.00 2.00 2.00	77 87 70
2,3,7,8-TCDD Total TCDD	ND ND		0.22 0.22	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 13C	2.00 2.00 2.00	79 71 75
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.97 1.50 65.00		0.22 J 0.17 J 0.20	1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8,9-HXCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	90 97 90 76
1,2,3,7,8-PeCDD Total PeCDD	2.60 8.30		0.22 J 0.22	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	0-13C 0F-13C	2.00 2.00 2.00	70 71 70 76
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	11.00 11.00 13.00		0.62 0.48 0.43	1,2,3,4,6,7,8-HpCE OCDD-13C	DD-13C	2.00 2.00 4.00	81 70
1,2,3,7,8,9-HxCDF Total HxCDF	2.00 200.00		0.69 J 0.56	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	)-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	8.80 26.00 18.00 150.00	  	0.52 0.31 0.46 0.43	2,3,7,8-TCDD-37C	14	0.20	85
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	330.00 25.00 950.00	 	2.30 2.90 2.60	Total 2,3,7,8-TCD Equivalence: 7.2 n (Using MEDEP Fa	D g/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	740.00 1200.00		2.40 2.40				
OCDF OCDD	1900.00 7200.00		0.91 1.60 E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-8 1036 F161 BAL 10.5 2.3 10.3 F161 F16 <sup>7</sup> BLA	8-2 (PYSW) 9117008 1121A_09 g 011 1120B_15 & NK-52781	F16112	1A_15	Matrix Dilution Collected Received 5 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	16 15:10 16 09:40 16 15:05 16 05:58	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 3.50		0.25 0.25		2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDF-1	30	2.00 2.00 2.00	80 91 102
2,3,7,8-TCDD Total TCDD	ND ND		0.21 0.21		2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1	3C 3C -13C	2.00 2.00 2.00	119 105
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.58 0.88 22.00		0.28 0.20 0.24	1 1	1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDF 2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,4,7,8,9-HXCDF	-13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	90 94 94 95 81
1,2,3,7,8-PeCDD Total PeCDD	0.85 3.80		0.20 0.20	J	1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCE	-13C 0F-13C	2.00 2.00 2.00	73 68 68
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	4.60 6.10 6.10	 	0.30 0.31 0.32	J	1,2,3,4,6,7,8-HpCD OCDD-13C	D-13C	2.00 4.00	79 59
1,2,3,7,8,9-HxCDF Total HxCDF	0.74 140.00		0.26 0.30	J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	2.20 6.70 5.80 48.00	  	0.31 0.27 0.34 0.30	J	2,3,7,8-TCDD-37Cl	4	0.20	88
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	160.00 9.70 370.00		0.56 0.53 0.55		Total 2,3,7,8-TCDI Equivalence: 2.3 n (Using MEDEP Fa	D g/Kg ctors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	180.00 300.00		0.81 0.81					
OCDF OCDD	510.00 1300.00		0.25 0.32					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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EDL = Estimated Detection Limit

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NC = Not Calculated

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

## **REPORT OF LABORATORY ANALYSIS**

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-{ 1036 F16' BAL 10.3 1.7 10.1 F16' F16' BLA	3-3 (PYSW) 59117009 1121A_10 g 1011 1120B_15 & NK-52781	F161121A_	Matrix Dilution Collected Received 15 Extracted Analyzed	Solid NA 10/28/2016 11/08/2016 11/14/2016 11/21/2016	6 15:10 6 09:40 6 15:05 6 06:46	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 4.30		0.13 0.13	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDF-13	IC.	2.00 2.00 2.00	86 94 85
2,3,7,8-TCDD Total TCDD	ND ND		0.12 0.12	2,3,4,7,8-PeCDF-13 1,2,3,7,8-PeCDD-13	90 90 130	2.00 2.00 2.00	78 81 95
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	0.92 1.30 55.00	 	0.26 J 0.14 J 0.20	1,2,3,4,7,8-HxCDF- 1,2,3,6,7,8-HxCDF- 2,3,4,6,7,8-HxCDF- 1,2,3,7,8,9-HxCDF- 1,2,3,4,7,8,9-HxCDF-	13C 13C 13C 13C 13C	2.00 2.00 2.00 2.00 2.00	90 97 99 99 81
1,2,3,7,8-PeCDD Total PeCDD	2.00 9.40		0.22 J 0.22	1,2,3,6,7,8-HxCDD- 1,2,3,4,6,7,8-HxCDD- 1,2,3,4,6,7,8-HpCDF	13C 13C 13C	2.00 2.00 2.00 2.00	77 72 71
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	9.70 9.10 11.00	 	0.25 0.20 0.24	1,2,3,4,6,7,8-HpCDI OCDD-13C	D-13C	2.00 4.00	87 67
1,2,3,7,8,9-HxCDF Total HxCDF	1.90 270.00		0.41 J 0.28	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-	13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	7.10 24.00 15.00 130.00	  	0.42 0.44 0.59 0.48	2,3,7,8-TCDD-37Cl4	Ļ	0.20	89
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	310.00 25.00 340.00		1.80 1.60 1.70	Total 2,3,7,8-TCDD Equivalence: 6.0 ng (Using MEDEP Fac	/Kg tors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	690.00 1100.00		2.60 2.60				
OCDF OCDD	1400.00 6400.00		0.20 0.23 E				

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## REPORT OF LABORATORY ANALYSIS

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU- 1036 F16' BAL 10.3 2.5 10.0 F16' F16' BLA	9-1 (DPSW) 9117010 121A_11 g 011 120B_15 & NK-52781	F16112	1A_15	Matrix Dilution Collected Received Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	016 14:20 016 09:40 016 15:05 016 07:35	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.49 13.00		0.29 0.29	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1 2 3 7 8-PeCDE-	; ; 13C	2.00 2.00 2.00	85 95 83
2,3,7,8-TCDD Total TCDD	0.35 0.91		0.21 0.21	J J	2,3,4,7,8-PeCDF- 1,2,3,7,8-PeCDD- 1,2,3,7,8-PeCDD-	13C 13C 13C =-13C	2.00 2.00 2.00	80 78 99
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF	2.60 5.80		0.14 0.20	J	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	-13C -13C	2.00 2.00 2.00	105 108
Total PeCDF	180.00		0.17		1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDF	13C D-13C	2.00 2.00	188 R 97
1,2,3,7,8-PeCDD Total PeCDD	15.00 48.00		0.56 0.56		1,2,3,6,7,8-HxCDL 1,2,3,4,6,7,8-HpC 1 2 3 4 7 8 9-HpC	D-13C DF-13C DF-13C	2.00 2.00 2.00	84 78 89
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	27.00 26.00		0.50 0.38		1,2,3,4,6,7,8-HpCl OCDD-13C	DD-13C	2.00 4.00	106 81
2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	33.00 5.90		0.36 0.21		1,2,3,4-TCDD-13C	;	2.00	NA
Total HxCDF	470.00		0.36		1,2,3,7,8,9-HxCDI	D-13C	2.00	NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD	51.00 130.00		1.70 1.50		2,3,7,8-TCDD-37C	214	0.20	84
1,2,3,7,8,9-HxCDD Total HxCDD	83.00 650.00		1.20 1.40					
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	780.00 51.00 840.00		1.90 1.70 1.80		Total 2,3,7,8-TCD Equivalence: 28 n (Using MEDEP Fa	DD g/Kg actors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	2900.00 4700.00		4.60 4.60	E E				
OCDF OCDD	2900.00 24000.00		0.20 0.15	E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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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

### **REPORT OF LABORATORY ANALYSIS**

ND = Not Detected

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-5 1036 F16' BAL 10.5 1.6 10.3 F16' F16' BLA	9-2 (DPSW) 9117011 1121A_12 g 1011 1120B_15 & NK-52781	F161121A_	Matrix Dilution Collected Received 15 Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	16 14:20 16 09:40 16 15:05 16 08:23	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.93 17.00		0.370 J 0.370	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-1	30.	2.00 2.00 2.00	83 91 82
2,3,7,8-TCDD Total TCDD	0.42 1.50		0.270 J 0.270	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDD-1 1,2,3,7,8-PeCDD-1	3C  3C  3C	2.00 2.00 2.00	76 80 83
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	4.40 9.50 230.00		0.310 J 0.150 0.230	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C	2.00 2.00 2.00 2.00	94 87 99
1,2,3,7,8-PeCDD Total PeCDD	15.00 56.00		0.350 0.350	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	0-13C 0-13C 0F-13C	2.00 2.00 2.00	72 74 64
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	27.00 27.00 37.00		0.650 0.340 0.370	1,2,3,4,7,8,9-HpCL 1,2,3,4,6,7,8-HpCE OCDD-13C	DF-13C DD-13C	2.00 2.00 4.00	69 87 66
1,2,3,7,8,9-HxCDF Total HxCDF	9.50 900.00		0.450 0.450	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	0-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	49.00 160.00 96.00 780.00	  	0.850 1.200 0.920 0.990	2,3,7,8-TCDD-37C	14	0.20	87
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	760.00 46.00 2400.00		2.000 2.100 2.000	Total 2,3,7,8-TCD Equivalence: 30 ng (Using MEDEP Fa	D g/Kg ictors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	3200.00 5400.00		4.300 E 4.300 E				
OCDF OCDD	2600.00 26000.00		0.091 0.140 E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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## REPORT OF LABORATORY ANALYSIS

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#### Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID Lab Sample ID Filename Injected By Total Amount Extracted % Moisture Dry Weight Extracted ICAL ID CCal Filename(s) Method Blank ID	SU-{ 1036 F16 BAL 10.3 1.8 10.1 F16 F16 BLA	9-3 (DPSW) 99117012 1121A_13 g 011 1120B_15 & NK-52781	F16112 <sup>-</sup>	1A_15	Matrix Dilution Collected Received Extracted Analyzed	Solid NA 10/28/20 11/08/20 11/14/20 11/21/20	016 14:20 016 09:40 016 15:05 016 09:11	
Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg		Internal Standards		ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.60 22.00		0.37 0.37	J	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C	20	2.00 2.00	83 94
2,3,7,8-TCDD Total TCDD	0.59 2.70		0.23 0.23	J	2,3,4,7,8-PeCDF-1 1,2,3,7,8-PeCDF-1	3C 3C 3C	2.00 2.00 2.00	84 78 80
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	3.60 7.90 280.00	 	0.34 0.26 0.30	J	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	-13C -13C -13C -13C -13C	2.00 2.00 2.00 2.00 2.00	99 97 101 163 R
1,2,3,7,8-PeCDD Total PeCDD	20.00 70.00		0.15 0.15		1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCD	0-13C 0F-13C	2.00 2.00 2.00	92 75 77
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	30.00 36.00 52.00	 	0.63 0.75		1,2,3,4,6,7,8-HpCE OCDD-13C	D-13C	2.00 2.00 4.00	100 79
1,2,3,7,8,9-HxCDF Total HxCDF	9.10 810.00		0.02 0.27 0.57		1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD	0-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	74.00 200.00 130.00 990.00	 	1.10 1.50 1.10 1.20		2,3,7,8-TCDD-37C	14	0.20	85
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	1600.00 76.00 4200.00	 	1.70 2.50 2.10	E	Total 2,3,7,8-TCD Equivalence: 41 ng (Using MEDEP Fa	D g/Kg ictors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	4400.00 7100.00		0.23 0.23	E E				
OCDF OCDD	4900.00 34000.00		0.21 0.30	E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

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

J = Estimated value

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#### Method 8290 Blank Analysis Results

	1		
Lab Sample ID	BLANK-52781	Matrix	Solid
Filename	U161119A_03	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	11/14/2016 15:05
ICAL ID	U161025	Analyzed	11/19/2016 08:02
CCal Filename(s)	U161118B_16 & U161119A_16	Injected By	BAL

Native Isomers	<b>Conc</b> ng/Kg	<b>EMPC</b> ng/Kg	<b>EDL</b> ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND ND		0.064 0.064	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-TCDD-13C	2.00 2.00 2.00	68 84 60
2,3,7,8-TCDD Total TCDD	ND ND		0.058 0.058	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.00 2.00 2.00	53 57 75
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND 0.11	 	0.070 0.049 0.059 J	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00 2.00	74 80 88
1,2,3,7,8-PeCDD Total PeCDD	ND ND		0.086 0.086	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,6,7,8-HpCDF-13C	2.00 2.00 2.00 2.00	78 72 79 82
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND		0.044 0.037 0.045	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	94 75
1,2,3,7,8,9-HxCDF Total HxCDF	ND ND		0.059 0.046	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND	  	0.050 0.074 0.056 0.060	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND	 	0.047 0.072 0.060	Total 2,3,7,8-TCDD Equivalence: 0.00011 ng/Kg (Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND 0.15		0.088 0.088 J			
OCDF OCDD	ND 0.38		0.110 0.140 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

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

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### Method 8290 Laboratory Control Spike Results

Lab Sample ID Filename Total Amount Extracted ICAL ID CCal Filename(s) Method Blank ID	LC U1 10 U1 U1 BL	/ S-52782 61119A_01 .1 g 61025 61118B_16 & ANK-52781	U161119A	Matrix Dilution Extracted A_16 Analyzed Injected By	Solid NA 11/14/2016 15 11/19/2016 06 BAL	::05 ::31
Native Isomers	<b>Qs</b> (ng)	<b>Qm</b> (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,2,7,8 DoCD5 13C	2.0 2.0	80 95
2,3,7,8-TCDD Total TCDD	0.20	0.18	88	1,2,3,4,7,8-PeCDF-13C 2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.0 2.0 2.0	59 70
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	1.0 1.0	1.1 1.1	107 110	1,2,3,6,7,8-HxCDF-13C 1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C 1,2,3,4,7,8,9-HxCDF-13C	2.0 2.0 2.0 2.0	73 74 82 89 83
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1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	1.0 1.0 1.0	1.1 1.1 1.0	110 107 104	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.0 2.0 4.0	91 66
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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**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

#### ATTACHMENT B

#### **Soil Shipment Documentation**

	70 Pleasant Hill Rd. Road, Scarborough,	ME 04074
	TEL: (207)883-3325 ~ SCALE: (207)883-230	6 EXT.133
	THANK YOU FOR YOUR PATRONAGE !!!	44 007 (t.t. men. 5)
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU, FOR YOUR PATRONAGE!!!

Customer: 126	59	Job: 350	3825	Truck	: DON		
GRANITE ENVIRO	ONMENTAL	FAIRPOIN	T COMMUNIC	ATI Driver	: BENNETT	Ticket: 004	27999
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#5 3191 427999 4. House Tracking Humber F.P.- Bruns - 000 2. Page 1 of | 3. Envergency Response Phone 1. Generator D Number NON-HAZAPDOUS 207-838-4077 Not Regineer? WASTE MANIFEST Generator's Site Address (If different then matting addresse) 5 Benerator's Name and Mating Address Fair Point Communiscitions 360 Bath Rd 1 DAVIS Form Rd Generative Prones 707-535-4157 Portland, ME 04103 BRINGWRE, ME OHEN U.S. EPA 13 Number 6 Transporter 1 Cumpady Name CPRC Group Not Regured U.S. EPA ID Number 7. Transporter 2 Company Name U.S. EPA ID Number 6. Designated Pacifity Name and Site Address CPRC Gross Z Gibson RU Scarboroughime OHOTH Not Reguered 207-293-3320 10. Containers 11. Total 12. Unit 9. Wasse Shinperd Name and Description No. Type Quantity Wt.No! Wan Regulated Modernal £ UOLATUS ( Petroleum Contaminated Soil) DT 5 21 601 3 4 ×. 13. Special Harsding Instructiona and Addatenal Information 1) Contaminated Soll 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I have by deciste that the contains of this consignment are fully and operflightly described above by the proper shipping name, and are described, packaged, marked and applicated and an and an all respects in groper condition for transport according to applicable interructional and national government andielunes Generator's Cillero's Printed/World Navis Month Signature Day 10001110 18 VIArni 0 15. International Ship roferis J.J.WI Import to U.S. Export from U.S. Part of entrylexit Transputter Signature (for earning only): Date leaving U.S.: 16. Trageporter Asynowledgment of Receipt of Materials Selhar Me well Transforder 1 Printed Typed Name TRANSPORT 1 Luc 3. 1. 1. 11 Powser 0 1'3 Transporter 2 Printed Typed Name Signature Month 17. Disgrogancy 17a, Diserepancy Indication Space Птуре Cuartity - Hesiduo Partiel Rejection En Ruit Enjord inc Manifest Reference Mumber: 171 Alleinate Facility (ur Generator) U.S. EPA ID Matter FACILITY Facility's Phone: 17n. Signature of Alternate Faultity (or Generator) GHATED Month 1=c DES: 18. Deelg leted Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a Signatore Pontad/Typed Name / 112. (PR 8 Day Jours Q11

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!

BY Customer: 12659 Job: 3503825 Truck: DON GRANITE ENVIRONMENTAL FAIRPOINT COMMUNICATI Driver: BENNÉTT Ticket.00427987 P O BOX 877 360 OLD BATH ROAD Mix: 3105 Operator: 1 BRUNSWICK, ME Mix Name: POCS ROCKPORT, MA 01966 POCS TareNetGrossJob TodayJob ToDate19.2129.7748.98Ton61.9361.93Loads TodayLoads ToDateDate & TimeFob/Det Fob/Del 2 2 10/11/2016 9:38:52AM FOB

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!



Customer: 12659 GRANITE ENVIRONMENTAL P O BOX 877 ROCKPORT, MA 01966	Job: 3503825 FAIRPOINT COMMUNICATI 360 OLD BATH ROAD BRUNSWICK, ME POCS	Truck: FRANK2 Driver: FRANK2 Mix: 3105 Mix Name: POCS	Ticket: 00427983 Operator: 1
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	70 Pleasant Hill Rd. Road, Scarborough, ME 04	1074
	TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT	.133
	THANK YOU FOR YOUR PATRONAGE !!!	A BAT toward
Customer: 12659	Job: 3503825 Truck: FRANK2	
GRANITE ENVIRONMENTAL	FAIRPOINT COMMUNICATI Driver: FRANK2	Tioxet: 00428107
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NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Respon	se Phone	4. Waste	racking rea	12113001		
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!

			THANK YOU	FOR YOUR E	PATRONAC	GE!	BY.
Customer: 126	59	Job: 3503-	825	Truc	k: BARD	8	1997 8 2
GRANITE ENVIR	ONMENTAL	FAIRPOINT	COMMUNICAT	CI Drive	r: BARD	8	Ticket: 00428072
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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2	2. Page 1 of 3. Em LO	ergency Respon	se Phone	4. Waste Ti	B Jak	mber Smith 1	
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Facility's Phone:									
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17b. Alternate Facility (or Gene	reitor)		6V18	IIII ANT LAGISTRICA	THUS (BUCK -	U.S. EPA ID I	lumber		
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18. Designated Facility Owner of	lity (or Generator) or Operator: Certification of receipt of r	naterials covered by the man	l	d in liem 17a				Month	Day Yi
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!

Customer: 12659 GRANITE ENVIRONMENTAL P O BOX 877 ROCKPORT, MA 01966	Job: 3503825 FAIRPOINT COMMUNICATI 360 OLD BATH ROAD BRUNSWICK, ME POCS	Truck: FRANK2 Driver: FRANK2 Mix: 3105 Mix Name: POCS	Ticket: 00428042 Operator: 1
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NON-HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Emergency Respon	se mone	4. WHELE I	Brun			
5. Generator's Name and Mailing Address	F	Generator's Site Addre	ss (if different	than mailing addr	<del>E</del> 55)			*****
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S. Transporter 1 Company Name				U.S. EPA ID	Number	EN-		
7. Transporter 2 Company Name				U.S. EPA ID	Number			
Designated Facility Name and Site Address     C      R				U.S. EPA ID	Number	1445		
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18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature C 010 169-BLS-C 5 11979 (Rev. 9/09)

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DESIGNATED FACILITY

17a. Discrepancy Indication Space

17b. Alternate Facility (or Generator)

17c. Signature of Alternate Facility (or Generator)

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE !!!

Fob/Del

Customer: 12659 Job: 3503825 Truck: 1B7183 GRANITE ENVIRONMENTAL FAIRPOINT COMMUNICATI Driver: ALLSTATE VO2 Ticket:00428200 P O BOX 877 360 OLD BATH ROAD Mix: 3105 Operator: 🗌 ROCKPORT, MA 01966 BRUNSWICK, ME Mix Name: POCS POCS NetGrossJob TodayJob ToDate4.879.97Ton82.1482.14Loads ToDateDate & TimeFob/Del Net 1 87 Tare 5.10 4.87

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.13BY: THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659 GRANITE ENVIRONMENTAL P O BOX 877 ROCKPORT, MA 01966	Job: 3503825 FAIRPOINT COMMU 360 OLD BATH ROJ BRUNSWICK, ME POCS	Truck: FRANK2 NICATI Driver: FRANK2 AD Mix: 3105 Mix Name: POCS	Ticket:00428191 Operator:1
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OCT 1: 2016

70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

	THANK IOU POI	R IOUR PATRONAGE!!!	R Y
Customer: 12659	Job: 3503825	Truck: 1B7183	L/   ·
GRANITE ENVIRONMENTAL	FAIRPOINT COMMUNICATI	Driver: ALLSTATE VO2	Ticket: 00428174
P O BOX 877	360 OLD BATH ROAD	Mix: 3105	Operator:1
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!! Job: 3503825

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

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	(8. Designated Facility Owner or Operator: Certification of receipt of materials povered by the mai	nifest exce	ept as n	xted in Item 17a	<u></u>		***	A material and a second s
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

		THAI	NK YOU FOR	YOUR PATR	ONAGE!!!	BY:	
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1. Generator (D Alumbe 2. Page 1 of 3. Emergency Response Phone 4. Waste Tracking Number NON-HAZARDOUS 201 338 4011 F8-6 Generator's Site Address (If different than mailing address) 360 BATH Rd REQUIRED FP-Brus-03 WASTE MANIFEST 5. Generator's Name and Mailing Address IrPoint Communiza m7.5 Brunswick, ME 0401 and Me wis Fram 04103 Ganerator's Phone: U.S. EPAID Number NOT REQUIREd 6. Transporter 1 Compa レひし U.S. EPA ID Numbe 7. Transporter 2 Company Name 8. Designated Facility Name and Gibe Address 2. GI bissan Ripto U.S. EPA ID Number daye Arborovgh 04074 REQUIND 207 10. Containers 11. Total 12. Unit 9. Wast: Shipping Name and Description Quantity Wt./Vol. No. Туре NON Regulated Material GENERATOR DT etroTeum Contominated Soil) 001 00025 3. 4. 13. Special Handling Instructions and Additional Information Petroleum Contaminated Soil 14. GENERATOR'S/OFFEROR'S CENTIFICATION: I hereby declare that the contents of this consignment are fully and accuragely described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national govern dulations General of a/Offeror's Printpd/Typed Name Signature Day Month Year VAM U 21 10 28 6 -210 15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter Signature (for exports only): Date leaving U.S. 16. Transporter Acknowledgment of Receipt of Materials **TRANSPORTER** fer 1 Printed/Typepi Name Transp Signit Month Dav Year ļþ 10 28 911 Transporter 2 Printed/Typed Name Signature Month Day 17. Discrepancy 17a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 17b. Alternate Facility (or Generator) U.S. EPA ID Number FACILITY Facility's Phone: DESIGNATED 17c. Signature of Alternate Facility (or Generator) Month Day Year 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signatur Month Day Year 103 n 1111 00 169-BLS-C 5 11979 (Rev. 9/09) CLUTY TO GENERAL



70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659	Job: 3503825	Truck: SPLASH25	
GRANITE ENVIRONMENTAL	FAIRPOINT COMMUNICA	II Driver: SPLASH 25	<b>Ticket:</b> 00428974
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ROCKPORT, MA 01966	BRUNSWICK, ME	Mix Name: POCS	
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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

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70 Pleasant Hill Rd. Road, Scarborough, ME 04074 TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133 THANK YOU FOR YOUR PATRONAGE!!!

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#### ATTACHMENT C

#### **Excavation Screening Sample Data**

#### Fair Point-Brunswick Oct. 2016 soils Group 2 CAPE Technologies EPA Method 4025m Analysis completed 101816

		QA: Dup or	TEQ	Mean of	TEQ Sample	Corrected	Duplicate	
Lab ID	Client ID	pg/g spike	by 4025m	Dups	Results	% spike recovery	%CV	Notes
1-	ESS-1B	0	8		11			unspiked sample
1-d		0 dupe	15	11			43	duplicate unspiked sample
1+		100	174			163		sample spiked with 100 pg/g 2378-TCDD
2-	ESS-2B	0	20		20			unspiked sample
2+		100	187			166		sample spiked with 100 pg/g 2378-TCDD
2+d		100 dupe	139	163		119	21	duplicate sample spiked with 100 pg/g 2378-TCDD
3-	ESS-3SW	0	20		20			unspiked sample
3-d		0 dupe	19	20			2	duplicate unspiked sample
3+		100	134			114		sample spiked with 100 pg/g 2378-TCDD
4-	ESS-4SW	0	25		25			unspiked sample
4+		100	123			98		sample spiked with 100 pg/g 2378-TCDD
4+d		100 dupe	141	132		116	10	duplicate sample spiked with 100 pg/g 2378-TCDD
5-	ESS-5SW	0	>263		>263			unspiked sample
5-d		0 dupe	>263	хх			хх	duplicate unspiked sample
5+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
5+d		100 dupe	>263	хх		xx	хх	duplicate sample spiked with 100 pg/g 2378-TCDD
6-	ESS-6SW	0	20		20			unspiked sample
6+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
6+d		100 dupe	190	хх		170	хх	duplicate sample spiked with 100 pg/g 2378-TCDD
7-	ESS-7SW	0	>263		>263			unspiked sample
7-d		0 dupe	>263	xx			xx	duplicate unspiked sample
7+		100	>263			хх		sample spiked with 100 pg/g 2378-TCDD
8-	ESS-8B	0	255		172			unspiked sample
8-d		0 dupe	89	172			68	duplicate unspiked sample
8+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
8+d		100 dupe	>263	хх		xx		duplicate sample spiked with 100 pg/g 2378-TCDD
MB-		0	6					unspiked method blank
MB-d		0 dupe	3	4			40	duplicate unspiked method blank
MB+		100	136			131		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	113	124		108	13	duplicate method blank spiked with 100 pg/g 2378-TCDD

<u>Notes</u>

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls
## Fair Point-Brunswick Oct. 2016 soils Group 3 CAPE Technologies EPA Method 4025m Analysis completed 101916

		QA: Dup or	TEQ	Mean of	TEQ Sample	Corrected	Duplicate	
Lab ID	Client ID	pg/g spike	by 4025m	Dups	Results	% spike recovery	%CV	Notes
9-	ESS-9SW	0	70		71			unspiked sample
9-d		0 dupe	72	71			1	duplicate unspiked sample
9+		100	108			37		sample spiked with 100 pg/g 2378-TCDD
10-	ESS-10SW	0	101		101			unspiked sample
10+		100	194			93		sample spiked with 100 pg/g 2378-TCDD
11-	ESS-11B	0	69		69			unspiked sample
11+		100	159			89		sample spiked with 100 pg/g 2378-TCDD
12-	ESS-12SW	0	27		27			unspiked sample
12		100	121			94		sample spiked with 100 pg/g 2378-TCDD
13-	ESS-13SW	0	176		176			unspiked sample
13+		100	260			83		sample spiked with 100 pg/g 2378-TCDD
13+d		100 dupe	>319	хх		xx	хх	duplicate sample spiked with 100 pg/g 2378-TCDD
14-	ESS-14SW	0	43		43			unspiked sample
14+		100	137			95		sample spiked with 100 pg/g 2378-TCDD
15-	ESS-15SW	0	112		112			unspiked sample
15+		100	174			62		sample spiked with 100 pg/g 2378-TCDD
16-	ESS-16B	0	58		58			unspiked sample
16+		100	209			152		sample spiked with 100 pg/g 2378-TCDD
16+d		100 dupe	>319	хх		xx	xx	duplicate sample spiked with 100 pg/g 2378-TCDD
17-	ESS-17SW	0	35		35			unspiked sample
17+		100	150			115		sample spiked with 100 pg/g 2378-TCDD
18-	ESS-18SW	0	79		57			unspiked sample
18-d		0 dupe	35	57			55	duplicate unspiked sample
18+		100	78			21		sample spiked with 100 pg/g 2378-TCDD
19-	ESS-19SW	0	23		23			unspiked sample
19+		100	118			96		sample spiked with 100 pg/g 2378-TCDD
MB-		0	3					unspiked method blank
MB-d		0 dupe	4	4			24	duplicate unspiked method blank
MB+		100	90			86		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	89	90		85	1	duplicate method blank spiked with 100 pg/g 2378-TCDD

<u>Notes</u>

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

# Fair Point-Brunswick Nov. 2016 soils Group 4 CAPE Technologies EPA Method 4025m Analysis completed 110316

		<u>QA:</u> Dup or	TEQ	Mean of	TEQ Sample	Corrected	Duplicate	
Lab ID	Client ID	pg/g spike	by 4025m	Dups	Results	% spike recovery	%CV	Notes
20-	ESS-105SW	0	60		64			unspiked sample
20-d		0 dupe	67	64			8	duplicate unspiked sample
20+		100	166			103		sample spiked with 100 pg/g 2378-TCDD
20+d		100 dupe	257	212		193	30	duplicate sample spiked with 100 pg/g 2378-TCDD
21-	ESS-107SW	0	42		52			unspiked sample
21-d		0 dupe	61	52			27	duplicate unspiked sample
21+		100	155			104		sample spiked with 100 pg/g 2378-TCDD
22-	ESS-108B	0	37		37			unspiked sample
22+		100	252			215		sample spiked with 100 pg/g 2378-TCDD
22+d		100 dupe	169	211		132	28	duplicate sample spiked with 100 pg/g 2378-TCDD
23-	ESS-110SW	0	1		2			unspiked sample
23-d		0 dupe	4	2			111	duplicate unspiked sample
23+		100	120			118		sample spiked with 100 pg/g 2378-TCDD
24-	ESS-113SW	0	1		1			unspiked sample
24+		100	121			119		sample spiked with 100 pg/g 2378-TCDD
24+d		100 dupe	175	148		174	26	duplicate sample spiked with 100 pg/g 2378-TCDD
25-	ESS-115SW	0	2		1			unspiked sample
25-d		0 dupe	0.3	1			96	duplicate unspiked sample
25+		100	114			113		sample spiked with 100 pg/g 2378-TCDD
25+d		100 dupe	187	151		186	34	duplicate sample spiked with 100 pg/g 2378-TCDD
MB-		0	0.3					unspiked method blank
MB-d		0 dupe	xx	хх			хх	duplicate unspiked method blank
MB+		100	92			92		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	79	85		79	11	duplicate method blank spiked with 100 pg/g 2378-TCDD

### Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale low/high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

Attachment D

**UCL 95 Calculations** 

DU-1

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is bas	ed on area	or volume:	Area			Number of in	crements	per replicate:	30					
						-						_				
		DU Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	CV	SE	95%	UCL
DU	DU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
1	U-1 Debris Pile Bottom (DU-1)	2000.00	3.4	13	0.28			3	1.00	5.6	6.6	36.3	6.5	3.8	16.7	22.2
2																
3																
4																
5																
6																
7																
8																
9																
10																
Com	ombined DUs Weighted by Area 2000.00							3	1.00	5.6	6.6	0.7	High	3.8	16.7	22.2

Degrees of freedom by Welch-Satterthwaite approximation

Chebychev 95% UCL is recommended because the dispersion of the data is high.

 Recommended UCL

 Chebyshev 95% UCL
 22.2

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

DU-2

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is base	ed on area	or volume:	Area			Number of in	crements	per replicate:	30					
		DI Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	CV	SF	95%	UCL
DU	DU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
1	SU-2 Debris Pile Sidewall 1(DU-2)	190.00	2.5	1.8	4.2			3	1.00	2.8	1.2	6.8	2.4	0.7	4.9	5.9
2																
3																
4																
5																
6																
7																
8																
9																
10																
Com	mbined DUs Weighted by Area 190.00							3	1.00	2.8	1.2	0.1	Medium	0.7	4.9	5.9

Degrees of freedom by Welch-Satterthwaite approximation

Chebychev 95% UCL is recommended because the dispersion of the data is high. Recommended UCL
Chebyshev 95% UCL 5.9

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

DU-3

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	nether the DU is base	ed on area	or volume:	Area			Number of in	crements	per replicate:	30					
		DU Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	cv	SE	95%	UCL
DU	DU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
1	SU-3 Debris Pile Sidewall 2 (DU-3)	180.00	28	30	41			3	1.00	33.0	7.0	38.3	1.2	4.0	44.8	50.6
2																
3																
4																
5																
6																
7																
8																
9																
10																
Com	bined DUs Weighted by Area 180.00							3	1.00	33.0	7.0	0.7	Low	4.0	44.8	50.6

Degrees of freedom by Welch-Satterthwaite approximation

Student's-t or Chebychev 95% UCL may be appropriate. Student's t 95% UCL

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

Recommended UCL 44.8

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

DU-4

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is base	ed on area	or volume:	Area	l		Number of inc	crements	per replicate:	30					
		DU Area (any		Replic		Arithmetic	SD of	SD of	CV	SF	95%	UCL				
SU	SU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
3	SU-3 (Pole Crib Sidewall 1)	194.00	7.6	5.6	5.1			3	0.42	6.1	1.3	7.2	1.2	0.8	8.3	9.4
5	SU-5 (Pole Crib Sidewall 2)	270.00	4.4	1.9	2.3			3	0.58	2.9	1.3	7.4	2.6	0.8	5.1	6.2
Comb	bined DUs Weighted by Area			6	1.00	4.2	1.0	0.1	Medium	0.6	5.5	6.6				

Degrees of freedom by Welch-Satterthwaite approximation

Chebychev 95% UCL is recommended because the dispersion of the data is high.

 Recommended UCL

 Chebyshev 95% UCL
 6.6

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

DU-5

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is bas	ed on area	or volume:	Area			Number of inc	crements	per replicate:	30					
		SU Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	CV	SE	95%	UCL
SU	SU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
7	SU-7 (Pole Crib Sidewall 3)	200.00	1.5	0.46	0.38			3	0.50	0.8	0.6	3.4	4.4	0.4	1.8	2.4
8	SU-8 (Pole Crib Sidewall 4)	200.00	7.2	2.3	6			3	0.50	5.2	2.6	14.0	2.7	1.5	9.5	11.6
Com	nbined DUs Weighted by Area 400.00							6	1.00	3.0	1.3	0.1	High	0.8	5.2	6.3
	Infined DOS weighted by Area 400.00 6 1.00 5.0 1.5															

Degrees of freedom by Welch-Satterthwaite approximation

Chebychev 95% UCL is recommended because the dispersion of the data is high.

 Recommended UCL

 Chebyshev 95% UCL
 6.3

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

DU-6

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is bas	ed on area	or volume:	Area	l		Number of in	crements	per replicate:	30					
		SU Area (anv		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	су	SE	95%	UCL
SU	SU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
7	SU-4 (Pole Crib Bottom)	1860.00	13	13	16			3	0.48	14.0	1.7	9.5	0.7	1.0	16.9	18.4
8	SU-6 (Pole Crib Bottom)	2000.00	5.3	11	8			3	0.52	8.1	2.9	15.6	1.9	1.6	12.9	15.3
Comb	mbined DUs Weighted by Area 3860.00							6	1.00	10.9	1.7	0.1	Medium	1.0	13.2	15.2

Degrees of freedom by Welch-Satterthwaite approximation

Chebychev 95% UCL is recommended because the dispersion of the data is high.

 Recommended UCL

 Chebyshev 95% UCL
 15.2

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

#### Fairpoint Brunswick Arsenic UCL Calculation

DU-3

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is bas	ed on area	or volume:	Area			Number of in	crements	per replicate:	30					
-										-						
		DU Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	CV	SE	95%	UCL
DU	DU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
1	SU-3 Debris Pile Sidewall 2 (DU-3)	180.00	2.9	2.7	3			3	1.00	2.9	0.2	0.8	0.3	0.1	3.1	3.3
2																
3																
4																
5																
6																
7																
8																
9																
10																
Combined DUs Weighted by Area         180.00            3										2.9	0.2	0.0	Low	0.1	3.1	3.3

Degrees of freedom by Welch-Satterthwaite approximation

 Student's-t or Chebychev 95% UCL may be appropriate.
 Recommended UCL

 Student's t 95% UCL
 3.1

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror

#### Fairpoint Brunswick Arsenic UCL Calculation

DU-4

#### Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

	Select wh	ether the DU is base	ed on area	or volume:	Area		Number of in	crements	per replicate:	30						
		DU Area (any		Replic	ate concen	tration		Number of		Arithmetic	SD of	SD of	CV	SE	95%	UCL
SU	SU Name	constant units)	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replicates	Weight	Mean	replicates	increments	of DU	of DU	Student's-t	Chebychev
3	SU-3 (Pole Crib Sidewall 1)	194.00	3.4	3.2	2.7			3	0.42	3.1	0.4	2.0	0.6	0.2	3.7	4.0
5	SU-5 (Pole Crib Sidewall 2)	270.00	3.2	3.4	3.4			3	0.58	3.3	0.1	0.6	0.2	0.1	3.5	3.6
Comb	nbined DUs Weighted by Area 464.00							6	1.00	3.2	0.2	0.0	Low	0.1	3.5	3.7

Degrees of freedom by Welch-Satterthwaite approximation

Student's-t or Chebychev 95% UCL may be appropriate. Recommended UCL Student's t 95% UCL

The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.

3.5

#### Notes

DU Decision unit

SD Standard deviation

SE Standard errror