GLEN COVE CREEK MIXED-USE WATERFRONT REDEVELOPMENT PROJECT
GLEN COVE, NEW YORK 11542

GLEN COVE CREEK
SEDIMENT SAMPLING SUMMARY REPORT

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PWGC Project Number: RGI1407

OCTOBER 2015

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Acronym

ACRONYM	DEFINITION
AES	Associated Environmental Services
amsl	Above mean sea level
ELAP	Environmental Laboratory Approval Program
GCC	Glen Cove Creek
GPS	Global Positioning System
HWRL	Hazardous Waste Regulatory Level
LUES	Land Use Ecological Services
NaI	Sodium Iodide
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU	Operable Unit
PCB	Polychlorinated Biphenyl
PID	Photo-Ionization Detector
ppm	Parts Per Million
ppb	Parts Per Billion
Posillico	Posillico Civil, Inc.
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
RRUSCO	Restricted-Residential Use Soil Cleanup Objective
SEC	Safety and Ecology Corporation
SIWP	Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan
SSP	Sediment Sampling Plan for Proposed Marina Dredging
SVOC	Semi-Volatile Organic Compound
SWCL	Site-Wide Cleanup Level
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 GLEN COVE CREEK SEDIMENT INVESTIGATION

P.W. Grosser Consulting, Inc. (PWGC) has prepared the following summary report to document the sampling procedures for the Glen Cove Creek (GCC) Sediment Sampling performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) and United States Environmental Protection Agency (USEPA) approved, *Sediment Sampling Plan for Proposed Marina Dredging* (SSP) prepared by Land Use Ecological Services (LUES) in July 2015 (**Appendix A**). The work was conducted on behalf of RXR-Glen Isle Partners, LLC to characterize sediments within the GCC prior to dredging operations.

The SSP described dredging and associated activities for the three marinas proposed in the GCC Mixed Use Waterfront Redevelopment Project. Based on proposed dredge footprint, depth, and material quantity, sample locations were outlined in the SSP for the Small Vessel Marina (RXR01 through RXR04), Angler's Club (RXR05 through RXR08), Transient Marina (RXR09 through 13), and Angler's Club Upland (RXR14 through RXR16) Sample locations are included on **Figure 1.**

1.1 Surveying

A licensed surveyor was provided from Posillico Civil, Inc. (Posillico), with the assistance of PWGC, to establish elevations at the 16 sample locations. LUES provided the proposed bottom depth elevations for the marinas in the North American Vertical Datum (NAVD) of 1988. Elevations are included in **Table 1**.

In October 2014, Posillico mobilized to the Angler's Club Upland(RXR14 through RXR16) to survey locations. Posillico utilized a tripod mounted Trimble global positioning system (GPS) and measuring stick to record elevation above mean sea level (amsl) at each sampling location.

On August 10th and 11th, 2015, Posillico and PWGC mobilized to GCC to survey locations. Associated Environmental Services (AES) of Hauppauge, NY provided a small vessel for surveying activities. A handheld Trimble R10 GPS unit was utilized within the vessel to record elevation amsl at each sampling location for the Small Vessel Marina, Angler's Club, and Transient Marina. A bouy was left at each location surveyed to revisit during drilling activities.

Upon review by LUES, it was decided that Angler's Club locations RXR06, RXR07, and RXR08 would be relocated and surveyed closer to the bulkhead in order to collect the appropriate sediment cores, as described below. PWGC surveyed the relocated Angler's Club borings on August 14th, 2015

utilizing a tripod mounted transit and measuring stick placed on the creek bottom.

1.2 Sediment Core Protocol

Angler's Club upland borings (RXR14 through 16) were sampled on October 24, 2014, following the sediment core segment protocol outlined in the SSP. However, a track mounted Geoprobe direct-push drill rig was utilized to install the upland borings following the *Environmental Soil Boring Protocol* outlined in the *Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan* (SIWP) (PWGC, December 2013)for the collection of sediment.

Prior to August 13th, 2015, permission was granted by the City of Glen Cove to utilize the boat ramp at 32 Garvie's Point Road, Glen Cove for the duration of the project. AES provided environmental drilling services for the GCC Sampling in accordance with the SSP. AES mobilized an assembled vessel-mounted vibra-core and gravity corer sampling rig to GCC on August 10th, 2015.

The vibra-core was advanced continuously from creek bottom to the appropriate depths at RXR01 through RXR04. This method presented insufficient sediment recovery when attempted at locations RXR09 and RXR13 and AES completed the remaining nine (9) creek locations (RXR05 through RXR13) by advancing a macro-core continuously from creek bottom to the appropriate depths. Anchors were employed in the creek bottom to stabilize the barge at each sampling location within the creek. Non-disposable sampling equipment was decontaminated using a laboratory-grade detergent and tap water scrub to remove visual contamination; generous tap water rinse; followed by a distilled water rinse prior to the collection of each sample.

1.3 Sediment Core Monitoring Protocol

It should be noted that monitoring, field screening and sampling for radiological constituents was not conducted for the Angler's Club Upland borings as they are not part of the Former Li Tungsten Superfund Site. Radiological monitoring and field screening was conducted for all activities within the GCC in accordance with the SSP and is detailed below as the GCC is Operable Unit (OU) IV of the Former Li Tungsten Superfund Site.

1.3.1 Radiological Background

Safety and Ecology Corporation (SEC) provided radiological monitoring in accordance with the SSP for all activities within the GCC. Prior to the commencement of sediment sampling activities, a

radiological site background was established in counts per minute (cpm). A calibrated Ludlum Model 2221 count-rate meter and scaler equipped with a 100 cm3 (2" X 2") sodium Iodide (NaI) detector was utilized to establish a site background which included performing one minute static counts at three locations upland of the GCC. The site background was established to be 5,000 (cpm) on August 10th, 2015.

1.3.2 Sediment Core Monitoring

PWGC and SEC provided field scanning of sediment cores associated with GCC sampling activities in accordance with the SSP. Prior to performing borings, 10-mil polyethylene sheeting, sufficiently large to hold the anticipated number of cores, was laid on the ground. SEC scanned each sediment core prior to handling with a calibrated Ludlum Model 12 frisker probe and Ludlum Model 2221. Scanning was performed by holding the detector approximately 1 inch above the soil surface and moving it over the surface being scanned at a rate of 0.5 meters per second (m/s). No count rates exceeded two times (2x 5,000 cpm) established background levels with a range of scans from 2,500 cpm (RXR13) to 6,700 cpm (RXR12). Following radiological scanning, PWGC scanned sediment cores for the presence of volatile organic vapors, which are commonly associated with petroleum products and industrial solvents, utilizing a photo-ionization detector (PID) which reads in parts per million (ppm). No PID responses (0.0 ppm) were noted for all sediment cores.

1.4 Sediment Characterization

Sampling was conducted on October 24, 2014 for Angler's Club Upland borings and between August 10th and August 17th, 2015 for Small Vessel Marina, Angler's Club, and Transient Marina GCC borings. PWGC photographed and characterized each sediment core using the Unified Soil Classification System (USCS). Upland sediments generally consisted of silts and sands in shallow depths with anaerobic organic silts with some shell fragments observed in deeper segments. GCC sediment generally consisted of anaerobic organic silts and sands, with some shell fragments observed in shallow segments. Anaerobic organic material with shell fragments is typical of marine benthic environments. A sediment log was developed for each location (**Appendix B**) and includes characterization and screening data along with photo-documentation.

1.5 SEDIMENT SAMPLING PROTOCOL

1.5.1 Core Segments

Sediment cores were divided into three segments (Segments A, B, and C) for analysis in the SSP and are as follows:

- Segment A: The surface of creek bottom to depth of proposed dredging; represents material to be dredged,
- Segment B: six (6) inches of material below the proposed dredge depth; represents remaining exposed creek bottom after dredging is complete,
- Segment C: 6 inches below Segment B; represents an alternative bottom which may be necessary if Segment B proves to be contaminated.

No dredging is necessary at Transient Marina locations (RXR09 through 13) based on the premise that existing surveyed elevations were deeper than that of the proposed dredge depth. Segment B intervals began at the existing surveyed elevation and progressed following the above core segment protocol with no Segment A samples collected from these locations. Core depths are outlined for each location in **Table 1**.

Grab samples were collected in each Segment) to be analyzed for volatile organic compounds (VOCs). The remaining segment sediments were composited and transferred to glassware to undergo the full suite of analyses following the SSP.

1.5.2 Analysis

Samples were collected in pre-cleaned laboratory supplied glassware and stored in a cooler on ice for transport to Test America Laboratories (TAL) for analysis. Samples were analyzed for:

- VOCs by USEPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270
- Metals by USEPA Method 6010/7196/9012
- Pesticides (Including Mirex) and Polychlorinated Biphenyls (PCBs) by USEPA Method 8082/8081
- Herbicide (Silvex) by USEPA Method 8151
- Dioxin by USEPA Method 1613B

- Total Organic Carbon (TOC) by USEPA Method 9060A
- Radiological by USEPA Method 901.1 (Gamma Spec) and DOE EML Method HASL-300 (Alpha Spec)

Quality Assurance and Quality Control (QA/QC) samples were collected in accordance with NYSDEC TOGS 5.1.9 Appendix C.

2.0 ANALYTICAL RESULTS

Preliminary analyses for grain size and TOC were run on all collected sample segments. Grain size distribution of each sample was determined by a sieve analysis performed in accordance with ASTM C136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. TOC of each sample was determined in accordance with EPA Method 9060A. Following guidance from the SSP, if the grain size and / or TOC analyses determined that the composition of a sample was at least 90% sand or larger materials and less than 0.5% TOC, no further testing of that sample was performed. Grain Size and TOC results are included in **Table 2**.

Based on the site history and documented contamination of upland areas, as well as the short holding times for some contaminants that must be tested, NYSDEC required that Segment C be analyzed at the same time as Segments A and B to determine if increasing the dredging depth will provide a reduction in exposed contaminant levels.

Segments that did not meet the requirements for grain size and TOC underwent analysis of all parameters listed above. Soil analytical results were compared to NYSDEC Soil Cleanup Objectives for Restricted Residential Use (RRUSCOs) to evaluate dredge spoil sediments for evidence of contaminants and to characterize for potential re-use or disposal at an approved upland site or landfill. Results are detailed below, a summary of compounds detected above RRUSCOs is included in **Table 3**, and all results are included in **Tables 4 through 10**. Soil analytical results were compared to TOGS5.1.9 Table 2 *Sediment Quality Threshold Values for Dredging, Riparian or In-Water Placement* for purposes of classifying proposed dredge material for selection of an appropriate management option by LUES and are included in **Table 11**.

2.1 VOCs

VOCs were not detected above NYSDEC RRUSCOs in all of the Segments.

2.2 SVOCs

SVOCs were detected above NYSDEC RRUSCOs in seven of the sixteen soil borings (RXR05A and B, RXR07B, RXR09B and C, RXR10B, RXR11B and C, RXR12A, B, and C, RXR13B and C). SVOCs detected above RRUSCOs are typical of petroleum related compounds and concentrations generally increase as samples progress from the Angler's Club (RXR05 through RXR08) to the Transient Marina Locations (RXR09 through RXR13).

2.3 Metals

Metals were detected above NYSDEC RRUSCOs in seven of the sixteen soil borings (RXR05A, B, and C, RXR07A, B, and C, RXR08A, B, and C, RXR09C, RXR11A, RXR12A, B and C, and RXR13B and C). Arsenic, cadmium, copper, cyanide, lead, and silver were among the metals exceeding RRUSCOs. RXR07 exhibits the highest metals concentrations with arsenic, cadmium, copper, and lead seen throughout each Segment. These metals are also present throughout RXR5 at lower concentrations, with the exception of Segment C. Generally lower concentrations of metals detected above RRUSCOs are observed in Transient Marina Locations (RXR09, 11, 12 and 13).

2.4 Pesticides / Herbicides

Pesticides / Herbicides were not detected above RRUSCOs in any of the sixteen soil borings.

2.5 PCBs

PCBs were not detected above RRUSCOs with the exception of Aroclor 1242 (1,800 ppb) and 1254 (1,200 ppb) in one Segment, RXR07B.

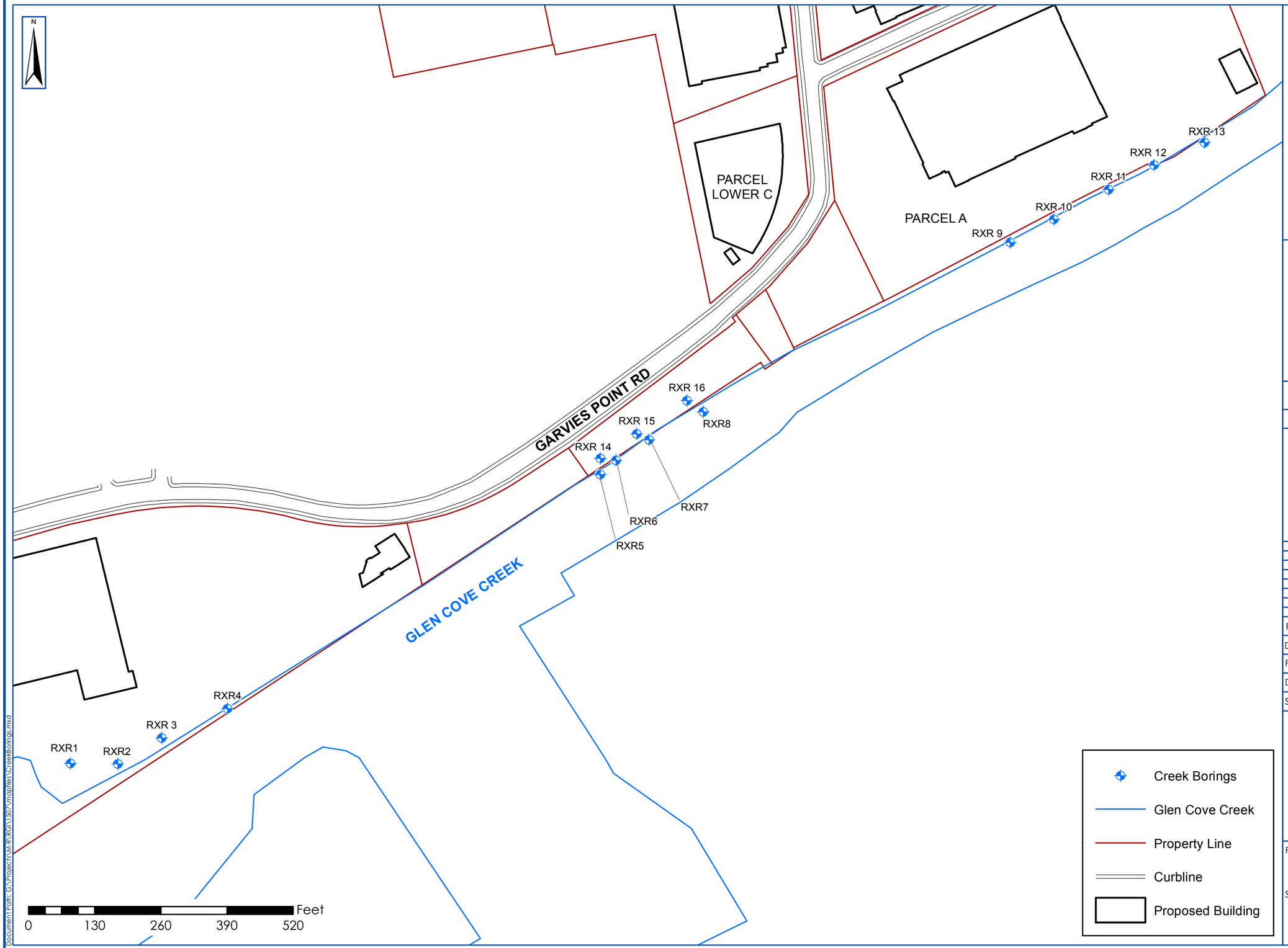
2.6 Radiological

Radiological components were in accordance with the NYSDEC site specific cleanup objectives and correspond to background levels typically observed in previous site investigations.

Analytical results are detailed in **Tables 2** through **9** and the complete laboratory analytical report is

included in **Appendix C**.

FIGURE



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CREEK BORINGS

GLEN COVE

FIGURE NO:

SHEET:

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TABLES

Table 1
Elevations and Core Depths for Sediment Samples

Glen Cove Creek Sediment Sampling

Location	TOGS Boring	Creek Bottom Surface Elev. (ft. amsl)	Segment A		Segment B		Segment C	
			(dredging depth ft. amsl)	(core depth ft.)	(0.0-0.5' below dredging depth ft. amsl)	(core depth ft.)	(0.5-1.0' below dredging depth ft. amsl)	(core depth ft.)
Small Vessel Marina	RXR1	1.50	-10.90	12.50	-11.40	13.00	-11.90	13.50
Small Vessel Marina	RXR2	-2.80	-10.90	8.10	-11.40	8.60	-11.90	9.10
Small Vessel Marina	RXR3	-0.80	-10.90	10.10	-11.40	10.60	-11.90	11.10
Small Vessel Marina	RXR4	-6.20	-10.90	4.70	-11.40	5.20	-11.90	5.70
Angler's Club	RXR5	-9.60	-9.90	0.30	-10.40	0.80	-10.90	1.30
Angler's Club	RXR6	-8.82	-9.90	1.10	-10.40	1.60	-10.90	2.10
Angler's Club	RXR7	-8.74	-9.90	1.20	-10.40	1.70	-10.90	2.20
Angler's Club	RXR8	-9.30	-9.90	0.60	-10.40	1.10	-10.90	1.60
Transient Marina*	RXR9	-11.60	NA	0.00	-12.10	0.50	-12.60	1.00
Transient Marina*	RXR10	-11.60	NA	0.00	-12.10	0.50	-12.60	1.00
Transient Marina*	RXR11	-11.10	NA	0.00	-11.60	0.50	-12.10	1.00
Transient Marina	RXR12	-8.80	-9.90	1.10	-10.40	1.60	-10.90	2.10
Transient Marina*	RXR13	-11.20	NA	0.00	-11.70	0.50	-12.20	1.00
Angler's Club Upland	RXR14	6.59	-8.80	15.40	-9.20	15.90	-9.70	16.40
Angler's Club Upland	RXR15	9.33	-8.80	18.10	-9.20	18.60	-9.70	19.10
Angler's Club Upland	RXR16	9.08	-8.80	17.90	-9.20	18.40	-9.70	18.90

Note:
* - Dredging not required based on existing depths. However, exposed bottom and below bottom sediments will be collected and analyzed.
Segment A - surface to depth material, represents material to be dredged.
Segment B - first six inches of material below the dredging depth, represents the exposed bottom after dredging is completed.
Segment C - six inches of material below Segment B, represents an alternative bottom.

Table 2
Soil Sample Analytical Data Summary
Sieve Analysis / TOC
ASTM C136 / EPA Method 9060A

Glen Cove Creek Sediment Sampling

Client Sample ID:	RXR01			RXR02			RXR03			RXR04			RXR05			RXR06			RXR07			RXR08		
Segment:	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:	200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-3	200-29316-4	200-29316-5	200-29316-6	200-29316-7	200-29296-14	200-29296-15	200-29296-16	200-29296-2	200-29296-3	200-29296-4	200-29296-5	200-29296-6	200-29296-7	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13
Sampling Date:	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015
Sieve Analysis (% Passing)																								
Sieve Size 3 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 2 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1.5 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 0.75 inch	98.5	100.0	100.0	100.0	92.3	100.0	100.0	95.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 0.375 inch	98.5	98.7	95.0	94.3	73.0	90.1	78.3	74.0	95.9	96.0	96.2	96.5	100.0	100.0	93.6	90.0	89.8	92.4	100.0	96.3	100.0	100.0	100.0	95.8
Sieve Size #4	96.1	95.7	90.5	85.0	61.7	70.6	68.9	65.4	85.8	90.4	89.6	90.9	100.0	100.0	89.2	82.6	78.7	81.9	93.8	94.2	91.6	89.9	93.1	88.8
Sieve Size #10	93.6	91.3	86.1	75.7	49.0	56.8	61.9	55.3	73.6	82.9	84.9	83.2	97.4	97.9	85.7	71.6	66.0	72.1	91.1	91.0	85.3	78.5	84.4	81.1
Sieve Size #20	87.2	84.2	80.7	65.2	38.0	42.7	55.2	47.5	62.7	75.9	79.6	75.3	94.8	95.2	82.8	60.0	52.7	60.1	86.8	86.7	77.4	66.3	71.9	73.4
Sieve Size #40	68.0	67.8	64.5	45.7	22.6	26.1	39.3	35.4	44.9	60.1	64.4	55.2	89.7	90.7	74.9	37.5	31.7	40.1	76.8	78.8	62.3	48.7	51.1	55.7
Sieve Size #60	35.5	41.1	35.7	25.2	9.4	12.9	16.4	19.8	24.0	36.9	35.7	26.6	82.1	84.4	54.9	16.3	15.1	21.3	63.8	68.4	47.1	30.8	31.6	30.9
Sieve Size #80	28.6	34.3	28.8	20.0	5.7	9.4	10	15.3	18.0	30.1	25.7	18.1	78.2	81.3	42.2	9.1	9.9	14.2	57.1	61.6	40.5	24.9	25.7	22.9
Sieve Size #100	26.3	31.7	26.5	18.0	4.2	7.9	7.6	13.5	15.7	27.2	20.5	14.7	76.0	79.6	37.7	6.1	7.8	11.1	53.6	57.6	37.3	22.3	23.2	19.5
Sieve Size #200	21.8	25.4	21.7	13.1	1.1	4.5	3.5	9.7	11.4	21.6	6.8	8.1	71.1	75.4	33.0	1.8	5.1	6.4	44.2	47.9	30.1	17.4	18.9	13.2
Total Organic Carbon (mg/kg)																								
Total Organic Carbon	2,660	1,440	970	4,370	2,720	2,740	7,510	7,590	9,840	3,900	1,960	1,470	41,400	52,000	9,390	10,900	10,500	11,300	41,300	51,600	32,100	27,800	26,600	3,800

Client Sample ID:	RXR09		RXR10		RXR11		RXR12			RXR13		RXR14			RXR15			RXR16		
Segment:	B	C	B	C	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:	200-29316-15	200-29316-16	200-29316-13	200-29316-14	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Sieve Analysis (% Passing)																				
Sieve Size 3 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 2 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1.5 inch	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 1 inch	100.0	100.0	100.0	63.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 0.75 inch	100.0	100.0	100.0	63.3	100.0	85.2	87.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve Size 0.375 inch	98.6	97.4	79.9	59.0	81.5	59.5	79.6	81.1	87.1	99.8	100.0	100.0	100.0	100.0	98.5	100.0	100.0	96.4	100.0	100.0
Sieve Size #4	69.5	66.9	58.9	46.3	64.8	36.6	68.2	72.2	78.8	96.6	100.0	90.0	98.0	93.0	88.4	95.5	97.0	90.4	98.3	100.0
Sieve Size #10	50.5	46.8	45.8	32.4	52.3	17.8	59.2	64.6	71.7	91.8	94.4	79.8	95.5	85.5	78.7	90.6	94.9	78.4	92.0	99.3
Sieve Size #20	38.8	40.9	37.0	23.3	44.9	12.6	50.1	57.5	65.2	86.2	88.7	70.2	91.9	78.4	67.5	79.8	88.6	63.7	83.1	95.3
Sieve Size #40	32.7	36.7	26.9	11.6	36.8	9.5	40.1	49.1	57.5	77.3	79.6	49.9	82.2	67.3	50.8	57.8	77.5	39.0	66.8	85.1
Sieve Size #60	28.7	34.0	19.2	5.7	29.7	7.7	31.9	40.1	50.9	63.8	65.5	30.6	69.0	54.6	36.9	35.2	66.0	16.9	51.4	73.4
Sieve Size #80	27.0	32.6	17.0	4.2	26.5	6.8	28.5	35.3	47.4	55.5	54.6	24.3	62.1	48.5	31.7	26.9	62.4	10.2	46.6	69.1
Sieve Size #100	26.0	31.5	16.1	3.4	24.8	6.2	26.7	32.7	45.4	50.6	46.8	21.6	58.3	45.4	29.1	23.4	60.6	7.0	44.3	66.5
Sieve Size #200	22.7	27.5	13.5	0.8	19.7	3.8	20.2	26.0	39.8	38.5	20.6	16.7	46.6	37.8	23.0	18.7	57.3	1.6	38.7	57.8
Total Organic Carbon (mg/kg)																				
Total Organic Carbon	51,400	69,100	26,660	25,900	45,600	56,900	55,000	33,400	46,500	51,100	47,300	4,010 B	1,850 B	2,040 B	4,580 B	1,730 B	21,300 B	6,900 B	4,610 B	39,200 B

Notes:
B - Compound was found in the blank and Sample
Highlighted text denotes grain size >10% Passing No. 200 sieve
Highlighted text denotes Total Organic Carbon > 0.5%

Table 3
Soil Sample Analytical Data Summary
Compounds Detected above RRUSCOs

TOGS Boring	Segment	Analysis	Units	Specific Compound	NYSDEC (1) RRUSCO	Result	
RXR5	A	VOC	ug/kg	Benzo(b)fluoranthene[f]	1,000[f]	1,400	F1
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	690	
		SVOC	ug/kg	Benzo(b)fluoranthene[f]	1,000[f]	1,400	F1
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	690	
		Metals	mg/kg	Arsenic, Total	24**	51.5	
				Cadmium, Total	4.30	24.5	
				Copper, Total	270.00	1,230	
				Lead, Total	400.00	621	
	B	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	1,100	
				Benzo(a)pyrene	1,000[f]	1,000	
				Benzo(b)fluoranthene[f]	1,000[f]	1,400	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	600	
		Metals	mg/kg	Arsenic, Total	24**	52.6	
				Cadmium, Total	4.30	28.0	
				Copper, Total	270	1,280	
				Lead, Total	400	820	
	C	Metals	mg/kg	Cadmium, Total	4.30	5.9	
RXR7	A	Metals	mg/kg	Arsenic, Total	24**	174	
				Cadmium, Total	4.30	9.2	
				Copper, Total	270	638	
				Lead, Total	400	534	
	B	SVOC	ug/kg	Indeno(1,2,3-cd)Pyrene [f]	500 [f]	560	*
		Metals	mg/kg	Arsenic, Total	24**	232	
				Cadmium, Total	4.30	15.0	
				Copper, Total	270	899	
				Lead, Total	400	1,070	
		PCB	ug/kg	Aroclor 1242	1,000	1,800	
				Aroclor 1254	1,000	1,200	
	C	Metals	mg/kg	Arsenic, Total	24**	154	
				Cadmium, Total	4.30	12.8	
				Copper, Total	270	607	
				Lead, Total	400	600	
RXR8	A	Metals	mg/kg	Cadmium, Total	4.30	10.4	
	B	Metals		Cadmium, Total	4.30	12.4	
				Copper, Total	270	441	
	C	Metals		Cadmium, Total	4.30	6.8	
RXR9	B	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	1,200	
				Benzo(a)pyrene	1,000[f]	1,200	
				Benzo(b)fluoranthene[f]	1,000[f]	1,900	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	1,100	
	C	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	2,900	
				Benzo(a)pyrene	1,000[f]	2,900	
				Benzo(b)fluoranthene[f]	1,000[f]	4,300	
				Dibenzo(a,h)anthracene[f]	330[e]	640	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	2,400	
		Metals	mg/kg	Cadmium, Total	4.30	7.3	
				Copper, Total	270	308	
RXR10	B	SVOC	ug/kg	Benzo(b)fluoranthene[f]	1,000[f]	1,400	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	990	
RXR11	B	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	1,800	
				Benzo(a)pyrene	1,000[f]	1,900	
				Benzo(b)fluoranthene[f]	1,000[f]	2,800	
				Dibenzo(a,h)anthracene[f]	330[e]	480	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	2,100	
		Metals	mg/kg	Cadmium, Total	4.30	11.2	
				Copper, Total	270	837	
	C	SVOC	ug/kg	Benzo(b)fluoranthene[f]	1,000[f]	1,400	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	980	
RXR12	A	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	1,900	F1
				Benzo(a)pyrene	1,000[f]	1,900	
				Benzo(b)fluoranthene[f]	1,000[f]	2,400	F1
				Dibenzo(a,h)anthracene[f]	330[e]	400	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	1,800	
		Metals	mg/kg	Arsenic, Total	24**	42	
				Cadmium, Total	4.30	42.8	
				Copper, Total	270	401	
				Silver, Total	180	247	
	B	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	2,400	
				Benzo(a)pyrene	1,000[f]	2,200	
				Benzo(b)fluoranthene[f]	1,000[f]	2,600	
				Dibenzo(a,h)anthracene[f]	330[e]	400	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	1,700	
		Metals	mg/kg	Cadmium, Total	4.30	20.6	
	C	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	2,700	
				Benzo(a)pyrene	1,000[f]	2,500	
				Benzo(b)fluoranthene[f]	1,000[f]	2,700	
				Dibenzo(a,h)anthracene[f]	330[e]	420	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	1,800	
		Metals	mg/kg	Arsenic, Total	24**	26	
				Cadmium, Total	4.30	32.9	
				Copper, Total	270	316	
				Silver, Total	180	205	
RXR13	B	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	13,000	
				Benzo(a)pyrene	1,000[f]	11,000	
				Benzo(b)fluoranthene[f]	1,000[f]	13,000	
				Benzo(k)fluoranthene[f]	3,900	5,200	
				Chrysene[f]	3,900	14,000	
				Dibenzo(a,h)anthracene[f]	330[e]	2,800	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	10,000	
		Metals	mg/kg	Arsenic, Total	24**	25	
	C	SVOC	ug/kg	Benzo(a)anthracene[f]	1,000[f]	100,000	
				Benzo(a)pyrene	1,000[f]	84,000	
				Benzo(b)fluoranthene[f]	1,000[f]	84,000	
				Benzo(k)fluoranthene[f]	3,900	36,000	
				Chrysene[f]	3,900	100,000	
				Dibenzo(a,h)anthracene[f]	330[e]	12,000	
				Fluoranthene[f]	100,000[a]	180,000	
				Indeno(1,2,3-cd)Pyrene [f]	500 [f]	46,000	
				Phenanthrene[f]	100,000[a]	120,000	
				Pyrene[f]	100,000[a]	200,000	
		Metals	mg/kg	Arsenic, Total	24**	25	
				Cadmium, Total	4.30	4.5	

Note:

(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06

a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

f - For constituents where the calculated

e - For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC

** - Site Specific Cleanup Objective

Table 4
Soil Sample Analytical Data Summary
Volatile Organic Compounds
EPA Method 8260

Glen Cove Creek Sediment Sampling

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:				A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:				200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Volatile Organic Compounds (µg/kg)																				
1,1,1-Trichloroethane[f]	680	NS	100,000[a]	0.33 U F1	0.27 U	0.19 U	0.28 U	0.3 U	0.33 U	0.53 U F2	0.83 U	0.42 U	0.78 U	22 U	0.44 U	0.31 U *	0.53 U	0.37 U	0.36 U	0.57 U
1,1-Dichloroethane[f]	270	NS	26,000	0.48 U F1	0.39 U	0.27 U	0.4 U	0.43 U	0.48 U	0.77 U F2	1.2 U	0.61 U	1.1 U	28 U	0.65 U	0.45 U *	0.76 U	0.54 U	0.52 U	0.82 U
1,1-Dichloroethene[f]	330	NS	100,000[a]	0.3 U F1 *	0.24 U	0.17 U *	0.25 U	0.27 U	0.3 U	0.48 U F2	0.75 U	0.38 U	0.71 U	28 U	0.4 U	0.28 U *	0.47 U	0.33 U	0.32 U	0.51 U
1,2,4-Trimethylbenzene[f]	3,600	NS	52,000	0.13 U * F1	0.36 J	0.74 J *	0.54 J	0.12 U	0.13 U	0.21 U F2 *	76 *	2.9 J	170 *	410	6.1 J	0.12 U *	0.2 U	2.4 J *	0.14 U *	6.2 J *
1,2-Dichlorobenzene[f]	1,100	NS	100,000[a]	0.14 U * F1	0.11 U	0.079 U *	0.12 U	0.13 U	0.14 U	0.22 U F2 *	0.35 U *	0.18 U	0.33 U *	28 U	0.19 U	0.13 U *	0.22 U	0.16 U *	0.15 U *	0.24 U *
1,2-Dichloroethane	20 [f]	10,000	3,100	0.93 U	0.75 U	0.53 U	0.77 U	0.84 U	0.92 U	1.5 U F2	2.3 U	1.2 U	2.2 U	33 U	1.2 U	0.87 U *	1.5 U	1 U	1 U	1.6 U
1,3,5-Trimethylbenzene[f]	8,400	NS	52,000	0.24 U * F1	0.19 U	0.13 U *	0.2 U	0.21 U	0.23 U	0.38 U F2 *	35 *	0.3 U	19 *	51 J	2.2 J	0.22 U *	0.37 U	0.26 U *	0.37 J *	1.9 J *
1,3-Dichlorobenzene[f]	2,400	NS	49,000	0.12 U *	0.095 U	0.067 U *	0.28 J	0.11 U	0.12 U	5.3 J F2 F1 *	0.29 U *	0.15 U	0.28 U *	24 U	0.16 U	0.11 U *	0.19 U	7.1 *	0.13 U *	0.2 U *
1,4-Dichlorobenzene	1,800	20,000	13,000	0.41 U *	0.33 U	0.23 U *	0.34 U	0.37 U	0.4 U	7.8 J F2 F1 *	120 *	1.5 J	5.9 J *	200 J	0.55 U	0.38 U *	8.6	14 *	0.98 J *	2.9 J *
1,4-Dioxane	100 [e]	100 [e]	13,000	15 U	12 U	8.5 U	12 U	13 U	15 U	24 U F2	37 U	19 U	35 U	1,700 U	20 U	14 U	24 U	17 U	16 U	26 U
2-Butanone	120	100,000[a]	100,000[a]	16	1.9 J	1.3 U	3.8 J	2.1 U	2.3 U	61 F2	180	16	65	150 U	51	12	15	18	24	49
Acetone	50	2,200	100,000[a]	65	8.9	17	13	25	35	140 F2 F1	440	42	170	5,100	120	32	43	51	57	120
Benzene	60	70,000	4,800	0.46 U	0.37 U	0.26 U	0.38 U	0.41 U	0.45 U	0.74 U F2	3.1 J	0.58 U	1.1 U	28 U	0.62 U	0.43 U *	0.73 U	0.51 U	0.5 U	1.1 J
Carbon tetrachloride[f]	760	NS	2,400	0.058 U	0.047 U	0.033 U	0.048 U	0.052 U	0.057 U	0.093 U F2 F1	0.14 U	0.073 U	0.14 U	51 U	0.077 U	0.054 U *	0.092 U	0.064 U	0.063 U	0.099 U
Chlorobenzene	1,100	40,000	100,000[a]	0.12 U *	0.095 U	0.067 U *	0.098 U	0.11 U	0.12 U	4.5 J F2	26	0.15 U	6.8 J	160 J	0.16 U	0.11 U *	1.9 J	4.2 J	0.13 U	0.2 U
Chloroform	370	12,000	49,000	0.47 U F1	0.38 U	0.27 U	0.39 U	0.42 U	0.46 U	0.75 U F2	1.2 U	0.6 U	1.1 U	31 U	0.63 U	0.44 U *	0.75 U	0.53 U	0.51 U	0.8 U
cis-1,2-Dichloroethene[f]	250	NS	100,000[a]	0.46 U	0.37 U	0.26 U	0.38 U	0.41 U	0.45 U	0.74 U F2	1.1 U	0.58 U	1.1 U	25 U	0.62 U	0.43 U *	0.73 U	0.51 U	0.5 U	0.78 U
Ethylbenzene[f]	1,000	NS	41,000	0.53 J *	0.24 J	0.35 J *	0.41 J	0.065 U	0.22 J	0.12 U F2	0.18 U	0.57 J	11 J	380	0.68 J	0.068 U *	0.12 U	0.081 U	0.69 J	1.5 J
Methyl tert butyl ether[f]	930	NS	100,000[a]	0.36 U F1	0.29 U	0.21 U	0.3 U	0.33 U	0.36 U	0.58 U F2	0.91 U	0.46 U	0.86 U	28 U	0.49 U	0.34 U *	0.58 U	0.41 U	0.39 U	0.62 U
Methylene chloride	50	12,000	100,000[a]	0.6 U	0.48 U	0.34 U	0.5 U	0.54 U	0.59 U	0.96 U F2	1.5 U	0.76 U	1.4 U	97 J B	0.8 U	0.56 U *	1.1 J B	0.67 U	0.83 J B	1 U
m-Xylene & p-Xylene	1,600	260	100,000[a]	1.6 J *	0.86 J	0.23 U *	1.1 J	0.85 J	1 J	3.7 J F2	27	0.52 U	54	600	0.55 U	0.38 U *	0.64 U	1.9 J	0.72 J	2.4 J
n-Butylbenzene[f]	12,000	NS	100,000[a]	0.28 U * F1 F2	0.22 U	0.16 U *	0.23 U	0.25 U	0.27 U	0.45 U F2 F1 *	0.7 U *	0.35 U	26 *	23 U	0.37 U	0.26 U *	0.44 U	0.31 U *	0.3 U *	0.47 U *
n-Propylbenzene[f]	3,900	NS	100,000[a]	0.33 U *	0.27 U	0.19 U *	0.28 U	0.3 U	0.33 U	0.53 U F2 *	0.83 U *	0.42 U	130 *	530	1.7 J	0.31 U *	0.53 U	0.37 U *	0.36 U *	1.3 J *
o-Xylene	1,600	260	100,000[a]	0.45 J * F1	0.046 U	0.032 U *	0.047 U	0.37 J	0.32 J	0.091 U F2	17	1.3 J	11 J	25 U	0.8 J	0.053 U *	0.09 U	1.3 J	1.1 J	3.1 J
sec-Butylbenzene[f]	11,000	NS	100,000[a]	0.12 U * F1	0.095 U	0.067 U *	0.098 U	0.11 U	0.12 U	0.19 U F2 F1 *	0.29 U *	0.15 U	18 *	150 J	0.16 U	0.11 U *	0.19 U	0.13 U *	0.24 J *	0.76 J *
tert-Butylbenzene[f]	5,900	NS	100,000[a]	0.27 U * F1	0.22 U	0.15 U *	0.22 U	0.24 U	0.26 U	0.43 U F2 *	0.67 U *	0.34 U	0.63 U *	43 J	0.36 U	0.25 U *	0.42 U	0.3 U *	0.29 U *	0.46 U *
Tetrachloroethene	1,300	200	19,000	0.31 U * F1	0.25 U	0.18 U *	0.47 J	0.31 J	0.39 J	0.5 U F2 F1	0.78 U	0.39 U	0.73 U	51 U	0.53 J	0.29 U *	0.49 U	0.35 U	0.52 J	0.53 U
Toluene	700	36,000	100,000[a]	0.2 U * F1	1.2 J	1.7 J *	1.8 J	1.7 J	1.4 J	0.33 U F2	7.9 J	2.4 J	7.7 J	100 J	0.27 U	2.1 J *	2.1 J	3 J	2.3 J	4.9 J
trans-1,2-Dichloroethene[f]	190	NS	100,000[a]	0.089 U	0.072 U	0.051 U	0.074 U	0.08 U	0.088 U	0.14 U F2	0.22 U	0.11 U	0.21 U	25 U	0.12 U	0.083 U *	0.14 U	0.099 U	0.096 U	0.15 U
Trichloroethene	470	200	21,000	0.61 U F1 F2	0.49 U	0.35 U	0.51 U	0.55 U	0.6 U	0.98 U F2	1.5 U	0.77 U	1.4 U	21 U	0.82 U	0.57 U *	0.97 U	0.68 U	0.66 U	1 U
Vinyl chloride[f]	20	NS	900	0.71 U F1 F2	0.57 U	0.4 U	0.59 U	0.63 U	0.7 U	1.1 U F2	1.8 U	0.9 U	1.7 U	21 U	0.95 U	0.66 U *	1.1 U	0.79 U	0.77 U	1.2 U
Xylenes	1,600	260	100,000[a]	2.1 J *	0.86 J	0.032 U	1.1 J	1.2 J	1.3 J	3.7 J F2	44	1.3 J	65	600	0.8 J	0.053 U *	0.09 U	3.2 J	1.8 J	5.5 J

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR10	RXR11		RXR12			RXR13		RXR14			RXR15			RXR16	
Segment:				B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:				200-29316-13	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Volatile Organic Compounds (µg/kg)																				
1,1,1-Trichloroethane[f]	680	NS	100,000[a]	0.32 U	0.52 U	0.32 U	0.57 U F1	0.28 U *	0.29 U	0.4 U	0.41 U	0.28 U	0.22 U	0.27 U	0.30 U	0.49 U	0.41 U	0.43 U	0.25 U	0.41 U
1,1-Dichloroethane[f]	270	NS	26,000	0.47 U	0.76 U	0.47 U	0.83 U F1	0.4 U *	0.42 U	0.58 U	0.59 U	0.41 U	0.32 U	0.40 U	0.44 U	0.71 U	0.60 U	0.73 J	0.37 U	0.59 U
1,1-Dichloroethene[f]	330	NS	100,000[a]	0.29 U	0.47 U	0.29 U	0.51 U F1 *	0.25 U *	0.26 U	0.36 U	0.37 U	0.26 U	0.20 U	0.25 U	0.27 U	0.44 U	0.37 U	0.39 U	0.23 U	0.37 U
1,2,4-Trimethylbenzene[f]	3,600	NS	52,000	0.12 U *	0.2 U *	0.12 U *	0.22 U * F1	0.11 U *	0.11 U *	2.5 J *	0.71 J	0.11 U	0.086 U	0.11 U	0.12 U	0.19 U	0.16 U	0.17 U	0.098 U	0.16 U
1,2-Dichlorobenzene[f]	1,100	NS	100,000[a]	0.14 U *	0.22 U *	0.14 U *	0.24 U *	0.12 U *	0.12 U *	0.17 U *	0.17 U	0.12 U	0.094 U	0.11 U	0.13 U	0.21 U	0.17 U	0.18 U	0.11 U	0.33 JB
1,2-Dichloroethane	20 [f]	10,000	3,100	0.9 U	1.5 U	0.9 U	1.6 U	0.78 U *	0.81 U	1.1 U	1.1 U	0.80 U	0.63 U	0.76 U	0.85 U	1.4 U	1.2 U	1.2 U	0.71 U	1.1 U
1,3,5-Trimethylbenzene[f]	8,400	NS	52,000	0.23 U *	0.37 U *	0.23 U *	0.4 U * F1	0.2 U *	0.2 U *	0.29 U *	0.29 U	0.20 U	0.16 U	0.19 U	0.21 U	0.35 U	0.29 U	0.30 U	0.18 U	0.29 U
1,3-Dichlorobenzene[f]	2,400	NS	49,000	0.11 U *	0.19 U *	0.11 U *	0.2 U *	0.098 U *	6.3 *	0.14 U *	0.14 U	0.10 U	0.079 U	0.097 U	0.11 U	0.17 U	0.15 U	0.15 U	0.089 U	0.21 JB
1,4-Dichlorobenzene	1,800	20,000	13,000	0.4 U *	0.64 U *	0.39 U *	0.7 U * F1 F2	0.34 U *	9.6 *	0.49 U *	0.5 U	0.35 U	0.27 U	0.33 U	0.37 U	0.60 U	0.51 U	0.52 U	0.31 U	0.5 U
1,4-Dioxane	100 [e]	100 [e]	13,000	15 U	24 U	15 U	26 U	12 U *	13 U	18 U	18 U	13 U	10 U	12 U	14 U	22 U	19 U	19 U	11 U	18 U
2-Butanone	120	100,000[a]	100,000[a]	33	91	41	180	45 *	29	45	7.1	2.0 U	1.6 U	1.9 U	2.1 U	9.6	9.6	3.0 U	1.8 U	2.9 U
Acetone	50	2,200	100,000[a]	81	230	96	7.5 F1	130 *	100	120	54	10	3.5 J	7.5	10	35	30	9.7	4.9	16
Benzene	60	70,000	4,800	0.45 U	0.73 U	0.45 U	1.2 J	0.38 U *	0.46 J	0.56 U	0.56 U	0.39 U	0.31 U	0.38 U	0.42 U	0.68 U	0.57 U	0.59 U	0.35 U	0.56 U
Carbon tetrachloride[f]	760	NS	2,400	0.056 U	0.091 U	0.056 U	0.099 U F1 F2	0.048 U *	0.05 U	0.07 U	0.071 U	0.049 U	0.039 U	0.047 U	0.053 U	0.085 U	0.072 U	0.074 U	0.044 U	0.071 U
Chlorobenzene	1,100	40,000	100,000[a]	0.11 U	0.19 U *	0.11 U *	0.2 U	0.098 U *	1.3 J	0.14 U *	0.14 U	0.10 U	0.079 U	0.097 U	0.11 U	0.17 U	0.15 U	0.15 U	0.089 U	0.14 U
Chloroform	370	12,000	49,000	0.46 U	0.74 U	0.46 U	0.81 U F1	0.39 U *	0.41 U	0.57 U	0.58 U	0.40 U	0.32 U	0.39 U	0.43 U	0.70 U	0.59 U	0.61 U	0.36 U	0.58 U
cis-1,2-Dichloroethene[f]	250	NS	100,000[a]	0.45 U	0.73 U	0.45 U	0.79 U	0.38 U *	0.4 U	0.56 U	0.56 U	0.39 U	0.31 U	0.38 U	0.42 U	0.68 U	0.57 U	3.0 J	1.4 J	2 J
Ethylbenzene[f]	1,000	NS	41,000	0.071 U	0.11 U *	0.071 U *	0.98 J F1	0.061 U *	0.063 U	0.57 J *	0.42 J	0.062 U	0.049 U	0.060 U	0.066 U	0.11 U	0.091 U	0.094 U	0.055 U	0.089 U
Methyl tert butyl ether[f]	930	NS	100,000[a]	0.35 U	0.57 U	0.35 U	3 J F1	0.3 U *	0.32 U	5.2 J	7.4	0.31 U	0.24 U	0.30 U	0.33 U	1.4 J	1.6 J	0.47 U	0.48 J	1.2 J
Methylene chloride	50	12,000	100,000[a]	0.58 U	0.95 U	0.58 U	1 U	0.5 U *	0.52 U	0.73 U	1 J B	1.3 JB	1.0 JB	1.4 JB	1.5 JB	2.5 JB	2.0 JB	1.7 JB	1.2 JB	2.3 JB
m-Xylene & p-Xylene	1,600	260	100,000[a]	0.4 U	0.64 U *	0.39 U *	2.4 J F1	0.34 U *	1.3 J	1.6 J *	1.4 J	0.35 U	0.27 U	0.33 U	0.37 U	0.60 U	0.51 U	0.52 U	0.31 U	0.5 U
n-Butylbenzene[f]	12,000	NS	100,000[a]	0.27 U *	0.44 U *	0.27 U *	0.48 U * F1	0.23 U *	0.24 U *	0.34 U *	0.34 U	0.24 U	0.19 U	0.23 U	0.25 U	0.41 U	0.35 U	0.36 U	0.21 U	0.34 U
n-Propylbenzene[f]	3,900	NS	100,000[a]	0.32 U *	0.52 U *	0.32 U *	0.57 U * F1	0.28 U *	0.29 U *	0.4 U *	0.41 U	0.28 U	0.22 U	0.27 U	0.30 U	0.49 U	0.41 U	0.43 U	0.25 U	0.41 U
o-Xylene	1,600	260	100,000[a]	0.055 U	0.09 U *	0.055 U *	0.097 U F1	0.047 U *	0.9 J	1.2 J *	0.5 J	0.048 U	0.038 U	0.047 U	0.052 U	0.084 U	0.071 U	0.073 U	0.043 U	0.069 U
sec-Butylbenzene[f]	11,000	NS	100,000[a]	0.11 U *	0.19 U *	0.11 U *	0.2 U * F1	0.098 U *	0.1 U *	0.14 U *	0.14 U	0.10 U	0.079 U	0.097 U	0.11 U	0.17 U	0.15 U	0.15 U	0.089 U	0.14 U
tert-Butylbenzene[f]	5,900	NS	100,000[a]	0.26 U *	0.42 U *	0.26 U *	0.46 U * F1	0.22 U *	0.23 U *	0.32 U *	0.33 U	0.23 U	0.18 U	0.22 U	0.24 U	0.40 U	0.33 U	0.34 U	0.20 U	0.33 U
Tetrachloroethene	1,300	200	19,000	0.3 U	0.49 U *	0.3 U *	1.1 J F1	0.26 U *	0.27 U	1.9 J *	0.42 J	0.52 U	0.21 U	0.25 U	0.28 U	0.46 U	0.39 U	0.40 U	0.24 U	0.38 U
Toluene	700	36,000	100,000[a]	0.46 J	2 J *	1.3 J *	5.4 J	2.1 J *	2.1 J	2.8 J *	2.6 J	0.17 U	0.14 U	0.30 JB	0.24 JB	0.47 JB	0.41 JB	0.27 JB	0.15 U	0.45 J
trans-1,2-Dichloroethene[f]	190	NS	100,000[a]	0.086 U	0.14 U	0.086 U	0.15 U F1	0.074 U *	0.077 U	1.5 J	0.11 U	0.076 U	0.060 U	0.073 U	0.081 U	0.13 U	0.11 U	0.11 U	0.067 U	0.11 U
Trichloroethene	470	200	21,000	0.59 U	0.96 U	0.59 U	1 U	0.51 U *	0.53 U	0.74 U	0.75 U	0.52 U	0.41 U	0.50 U	0.56 U	0.90 U	0.76 U	0.78 U	0.46 U	0.75 U
Vinyl chloride[f]	20	NS	900	0.69 U	1.1 U	0.69 U	1.2 U F1	0.59 U *	0.61 U	2 J	0.86 U	0.60 U	0.47 U	0.58 U	0.64 U	1.0 U	0.88 U	0.91 U	0.54 U	0.86 U
Xylenes	1,600	260	100,000[a]	0.055 U	0.09 U	0.055 U	2.4 J F1	0.047 U	2.2 J	2.8 J	1.9 J	0.048 U	0.038 U	0.047 U	0.052 U	0.084 U	0.071 U	0.073 U	0.043 U	0.069 U

Notes:

(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Grounwater Soil Cleanup Objective Table 375-6.8b 12/06

(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Ecological Resources Soil Cleanup Objective Table 375-6.8b 12/06

(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06

a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

e - For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

f - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the department and department of health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

NS - No Standard

B - Compound was found in the blank and sample.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.

U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).

* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC

F1 - MS and/or MSD Recovery is outside acceptance limits.

F2 - MS/MSD Duplicate Relative Percent Difference (RPD) exceeds control limits

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater SCO

Highlighted text denotes concentrations exceeding NYSDECProtection of Ecological Resources SCO

Table 5
Soil Sample Analytical Data Summary
Semi-Volatile Organic Compounds
EPA Method 8270

Glen Cove Creek Sediment Sampling

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:				A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:				200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Semi-Volatile Organic Compounds (ug/kg)																				
2-Chloronaphthalene	NS	NS	NS	9.5 U	8.1 U	8.2 U	17 U	8.9 U	9.1 U	80 U * F1	45 J	240 J	26 U	14 U	12 U	8.9 U	10 U	9.7 U	21 U	22 U
2-Methylnaphthalene	NS	NS	NS	9.2 U	7.9 U	8 U	17 U	8.7 U	8.9 U	120 J F1	110 J	44 J	57 J	56 J	61 J	22 J	27 J	18 J	37 J	120 J
2-Methylphenol	NS	NS	NS	18 U	16 U	16 U	33 U	17 U	18 U	150 U F1	63 U	40 U	49 U	28 U	23 U	17 U	19 U	19 U	41 U	42 U
3 & 4-Methylphenol	NS	NS	NS	11 U	9.5 U	9.6 U	20 U	10 U	11 U	120 J	46 J	30 J	190 J	58 J	40 J	15 J	12 U	11 U	35 J	140 J
Acenaphthene	98,000	20,000	100,000[a]	10 U	8.7 U	8.8 U	18 U	9.5 U	9.7 U	110 J * F1	190 J	51 J	120 J	47 J	41 J	9.5 U	11 J	10 U	140 J	270 J
Acenaphthylene[f]	107,000	NS	100,000[a]	11 U	9.2 U	9.3 U	19 U	10 U	10 U	180 J * F1	180 J	23 U	62 J	28 J	24 J	17 J	14 J	13 J	37 J	140 J
Anthracene[f]	1,000,000 [c]	NS	100,000[a]	40 U	34 U	34 U	71 U	37 U	38 U	440 J * F1	670 J	110 J	200 J	140 J	82 J	39 J	51 J	41 U	300 J	850 J
Benzo(a)anthracene[f]	1,000 [f]	NS	1,000[f]	35 U	30 U	30 U	110	33 U	34 U	950 F1	1,100	310	580	440	330	190	230	160	1,200	2,900
Benzo(a)pyrene	22,000	2,600	1,000[f]	35 J	20 J	11 U	160	43	36 J	950 F1	1,000	320	530	460	380	210	230	170	1,200	2,900
Benzo(b)fluoranthene[f]	1,700	NS	1,000[f]	48	14 U	14 U	210	50	36 J	1,400 F1	1,400	440	950	710	660	280	360	240	1,900	4,300
Benzo(ghi)perylene[f]	1,000,000 [c]	NS	100,000[a]	36 J F1	21 U	21 U	120 J	32 J	24 J	600 J F1	520 J	250 J	250 J	530 J	400 J	230 J	280 J	190 J	960	2,100
Benzo(k)fluoranthene[f]	1,700	NS	3,900	24 J	16 U	16 U	71 J	17 J	18 J	480 F1	63 U	170	330	280	210	120	100	85	600	1,600
Chrysene[f]	1,000 [f]	NS	3,900	11 U	9.7 U	9.8 U	110 J	31 J	21 J	1,300 J F1	1,400	380 J	840 J	17 U	400 J	190 J	220 J	180 J	1,500	3,600
Dibenzo(a,h)anthracene[f]	1,000,000 [c]	NS	330[e]	22 U F1	19 U	19 U	44 J	20 U	21 U	260 J F1	210	75 J	130	150	96	59	68	45	300	640
Dibenzofuran[f]	NS	NS	59,000	13 U	11 U	11 U	23 U	12 U	12 U	110 U * F1	110 J	36 J	48 J	38 J	40 J	12 J	16 J	430 U	57 J	170 J
Fluoranthene[f]	1,000,000 [c]	NS	100,000[a]	42 J	11 U	11 U	110 J	48 J	26 J	3,100 J *	3,100	530 J	1,800	840	620	290 J	400 J	280 J	2,200	5,500
Fluorene	386,000	30,000	100,000[a]	9.1 U	7.8 U	7.9 U	16 U	8.5 U	8.8 U	77 U * F1	280 J	51 J	100 J	87 J	83 J	11 J	20 J	9.4 U	130 J	260 J
Hexachlorobenzene	1,400	NS	1,200	17 U	15 U	15 U	30 U	16 U	16 U	140 U * F1	58 U	37 U	46 U	26 U	21 U	16 U	18 U	17 U	38 U	39 U
Indeno(1,2,3-cd)Pyrene[f]	8,200	NS	500[f]	28 U F1	24 U	24 U	140	35 J *	27 J *	690	600	270	350	560 *	420 *	220 *	270 *	210 *	1,100	2,400
Naphthalene[f]	12,000	NS	100,000[a]	11 U	9.1 U	9.2 U	24 J	10 U	10 U	180 J F1	180 J	92 J	82 J	150 J	150 J	27 J	34 J	22 J	94 J	370 J
Pentachlorophenol	800 [e]	800 [e]	6,700	51 U	43 U	44 U	91 U	47 U	49 U	430 U *	170 U	110 U	140 U	77 U	64 U	48 U	54 U	52 U	110 U	120 U
Phenanthrene[f]	1,000,000 [c]	NS	100,000[a]	25 J	9.5 U	9.6 U	54 J	16 J	11 U	920 J * F1	1,700	370 J	410 J	330 J	270 J	92 J	130 J	87 J	1,000	1,900
Phenol	330 [e]	30,000	100,000[a]	14 U	12 U	12 U	24 U	13 U	13 U	120 U F1	47 U	30 U	37 U	21 U	17 U	13 U	14 U	14 U	31 U	31 U
Pyrene[f]	1,000,000 [c]	NS	100,000[a]	67 J	16 U	16 U	240 J	97 J	35 J	1,500 J F1	2,100	640 J	1,000 J	1,000	890	490	560	410 J	2,600	5,600
Total SVOCs				327	20	0	1,393	369	223	12,950	14,941	4,409	8,029	5,754	5,055	2,477	2,983	2,110	15,390	35,760
Total PAHs				327	20	0	1,393	369	223 J	12,950 J F1	14,785	4,343	7,791	5,705 J	5,015 J	2,465 J	2,967 J	2,092 J	15,298	35,450

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR10	RXR11		RXR12			RXR13		RXR14			RXR15			RXR16		
Segment:				B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:				200-29316-13	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Semi-Volatile Organic Compounds (ug/kg)																				
2-Chloronaphthalene	NS	NS	NS	21 U	23 U	18 U	13 U	9.3 U	12 U	58 U	620 U	50 U	50 U	50 U	50 U	57 U	57 U	50 U	45 U	55 U
2-Methylnaphthalene	NS	NS	NS	25 J	71 J	36 J	99 J	150 J	170 J	630 J	730 J	18 U	17 U	18 U	18 U	20 U	20 U	17 U	16 U	19 U
2-Methylphenol	NS	NS	NS	40 U	45 U	34 U	25 U	18 U	22 U	110 U	1,200 U	47 U	46 U	47 U	47 U	53 U	53 U	46 U	42 U	51 U
3 & 4-Methylphenol	NS	NS	NS	25 U	77 J	51 J	37 J	72 J	77 J	68 U	730 U	87 U	85 U	87 U	87 U	97 U	97 U	86 U	78 U	94 U
Acenaphthene	98,000	20,000	100,000[a]	39 J	110 J	78 J	230 J	290 J	330 J	1,800 J	6,000 J	56 J	15 U	15 U	15 U	17 U	17 U	15 U	14 U	17 U
Acenaphthylene[f]	107,000	NS	100,000[a]	28 J	60 J	23 J	58 J	78 J	98 J	140 J	2,400 J	18 U	17 U	18 U	18 U	20 U	20 U	17 U	16 U	19 U
Anthracene[f]	1,000,000 [c]	NS	100,000[a]	130 J	380 J	200 J	830	870	1,100	4,900	28,000	320 J	16 U	16 U	16 U	18 U	18 U	16 U	15 U	18 U
Benzo(a)anthracene[f]	1,000 [f]	NS	1,000[f]	760	1,800	980	1,900 F1	2,400	2,700	13,000	100,000	890	15 U	15 U	15 U	17 U	17 U	70 J	14 U	17 U
Benzo(a)pyrene	22,000	2,600	1,000[f]	910	1,900	960	1,900	2,200	2,500	11,000	84,000	800	14 U	14 U	14 U	16 U	16 U	14 U	13 U	15 U
Benzo(b)fluoranthene[f]	1,700	NS	1,000[f]	1,400	2,800	1,400	2,400 F1	2,600	2,700	13,000	84,000	800	27 U	27 U	27 U	30 U	30 U	46 J	24 U	29 U
Benzo(ghi)perylene[f]	1,000,000 [c]	NS	100,000[a]	840 J	1,900	880	1,600	1,600	1,700	11,000	49,000	390	15 U	15 U	15 U	17 U	17 U	15 U	14 U	17 U
Benzo(k)fluoranthene[f]	1,700	NS	3,900	550	1,100	540	930	880	1,100	5,200	36,000	680	35 U	35 U	35 U	39 U	39 U	65 J	31 U	38 U
Chrysene[f]	1,000 [f]	NS	3,900	980	2,300	1,100	2,200 F1	2,800	3,200	14,000	100,000	860	21 U	21 U	21 U	24 U	24 U	71 J	19 U	23 U
Dibenzo(a,h)anthracene[f]	1,000,000 [c]	NS	330[e]	240	480	240	400	400	420	2,800	12,000	180 J	13 U	13 U	13 U	14 U	14 U	13 U	12 U	14 U
Dibenzofuran[f]	NS	NS	59,000	32 J	84 J	64 J	170 J	170 J	170 J	750 J	1,300 J	27 J	18 U	19 U	19 U	21 U	21 U	19 U	17 U	20 U
Fluoranthene[f]	1,000,000 [c]	NS	100,000[a]	1,100	3,500	1,600	4,700 F1	5,400	6,000	20,000	180,000	2,100	14 U	14 U	14 U	16 U	16 U	87 J	13 U	15 U
Fluorene	386,000	30,000	100,000[a]	46 J	120 J	97 J	370 J	310 J	370 J	1,700 J	6,000 J	65 J	17 U	18 U	18 U	20 U	20 U	17 U	16 U	19 U
Hexachlorobenzene	1,400	NS	1,200	38 U	42 U	32 U	23 U	17 U	21 U	100 U	1,100 U	54 U	53 U	54 U	54 U	61 U	61 U	53 U	48 U	59 U
Indeno(1,2,3-cd)Pyrene[f]	8,200	NS	500[f]	990	2,100	980	1,800	1,700	1,800	10,000	46,000	340 J	16 U	16 U	16 U	18 U	18 U	16 U	15 U	18 U
Naphthalene[f]	12,000	NS	100,000[a]	46 J	160 J	85 J	120 J	230 J	230 J	670 J	690 U	18 U	17 U	18 U	18 U	20 U	20 U	17 U	16 U	19 U
Pentachlorophenol	800 [e]	800 [e]	6,700	110 U	120 U	95 U	69 U	50 U	62 U	310 U	3,300 U	80 U	79 U	80 U	80 U	89 U	90 U	79 U	71 U	87 U
Phenanthrene[f]	1,000,000 [c]	NS	100,000[a]	540 J	1,100	740 J	3,300 F1	3,700	4,500	28,000	120,000	1,100	14 U	14 U	14 U	16 U	16 U	62 J	13 U	15 U
Phenol	330 [e]	30,000	100,000[a]	30 U	34 U	26 U	19 U	18 J	17 U	84 U	890 U	47 U	46 U	47 U	47 U	53 U	53 U	46 U	42 U	51 U
Pyrene[f]	1,000,000 [c]	NS	100,000[a]	1,700	4,900	2,500	3,200 F1	4,500	5,400	37,000	200,000	1,600	16 U	16 U	16 U	18 U	18 U	77 J	15 U	18 U
Total SVOCs				10,356	24,942	12,554	26,244	30,368	34,565	175,590	1,055,430	10,208	ND	ND	ND	ND	ND	478	ND	ND
Total PAHs				10,324	24,781	12,439	26,037	30,108	34,318	174,840	1,054,130	10,125	ND	ND	ND	ND	ND	478	ND	ND

Notes:

(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Grounwater Soil Cleanup Objective Table 375-6.8b 12/06

(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Ecological Resources Soil Cleanup Objective Table 375-6.8b 12/06

(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06

a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

c - The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1,000,000 ppb.

e - For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

f - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the department and department of health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

NS - No Standard

* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.

F1 - MS and/or MSD Recovery is outside acceptance limits.

U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater SCO

Highlighted text denotes concentrations exceeding NYSDECProtection of Ecological Resources SCO

Table 6
Soil Sample Analytical Data Summary
Total Metals
EPA Method 6010 / 9012 / 7196

Glen Cove Creek Sediment Sampling

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:				A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:				200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Total Metals (mg/kg)																				
Arsenic, Total	16 [f]	13 [f]	24*	4.1	3 J	2.2 J	7.1	13.8	2.7 J	51.5	52.6	13.1	174	232	154	8.3	16	8.5	5.4	15.9
Barium, Total	820	433	400	84.1	117	19.3 J	18.6 J	10.6 J	6.5 J	151	131	43.3 J	49.7 J	73.1	60.2 J	22.2 J	42.1 J	24.2 J	10.6 J	49.5 J
Beryllium, Total	47	10	72	0.41 U	0.35 U	0.36 U	0.37 U	0.36 U	0.36 U	1.3	1.5	0.44 U	0.8	1.4	1	0.36 U	0.41 U	0.4 U	0.47 U	0.57
Cadmium, Total	7.5	4	4.3	0.5 U	0.43 U	0.45 U	2.4	1.2	0.45 U	24.5	28	5.9	9.2	15	12.8	10.4	12.4	6.8	1.1	7.3
Chromium (hexavalent)	19	1 [e]	110	1 U F1	0.87 U	0.93 U	0.93 U	0.98 U	1 U	1.7 U	1.8 U	1.1 U	1.4 U	1.6 U	1.3 U	0.97 U	1.1 U	1 U	1.1 U	1.2 U
Chromium (III)	NS	41	180	30.3	29.4	10.9	16.7	11	9.7	112	113	33.8	55.8	76.2	58.3	20.2	30.3	17.8	18	44.6
Copper, Total	1,720	50	270	33	36.3	26.2	92.5	44.5	23.9	1,230	1,280	230	638	899	607	175	441	162	52	308
Cyanide, Total	40	NS	27	0.022 J	0.017 U	0.018 U	0.018 U	0.027 J	0.019 U	7.4	6.8	0.35	7.6	0.37	1.1	0.97 U	0.074 J	2.4	0.024 U	10.1
Lead, Total	450	63 [f]	400	19.5	18.1	11.5	57	45.1	13.6	621	820	147	534	1,070	600	101	156	96.2	40.4	294
Manganese, Total	2,000 [f]	1,600 [f]	2,000[f]	111 F1	92.6	43.3	139	37.7	37	227	222	137	217	243	198	85.4	184	129	362	166
Nickel, Total	130	30	310	13.1	12.9	6.4 J	9	5.3 J	3.7 J	78.1	97.6	19.7	73.9	77.2	62.9	12	19.3	22	11.1	61.5
Selenium, Total	4 [f]	3.9 [f]	180	1.7 U	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	5.8 J	5.8 J	1.8 U	4.5 J	8	5.5 J	1.5 U	1.7 J	1.6 U	1.9 U	2.5 J
Silver, Total	8.3	2	180	1.9 J	3.2	1.8 J	12.8	7	1.7 J	136	163	30.8	40.6	67	58.1	49	58	31.9	6.2	37.8
Zinc, Total	2,480	109 [f]	10,000[d]	40.2	35.3	22.8	87.1	66.2	25.6	436	447	125	487	640	404	86.3	170	177	58.5	360
Mercury, Total	0.73	0.18 [f]	0.81[j]	0.21 F1	0.58	0.42	0.23	0.14	0.044	0.54	0.55	0.22	0.45	0.51	0.33	0.23	0.24	0.3	0.24	0.48

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR10	RXR11		RXR12			RXR13		RXR14			RXR15			RXR16		
Segment:				B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:				200-29316-13	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Total Metals (mg/kg)																				
Arsenic, Total	16 [f]	13 [f]	24*	15.4	19.4	7.3	41.5	20.1	25.9	25.1	24.7	1.9	1.5 J	5	2.4	1.5	4.1	1.7	2.4	3.3
Barium, Total	820	433	400	25.1 J	43.6 J	14.8 J	69.8	42 J	57.6 J	54.6 J	64.3	13.6	16.6	59.1	15	5.8	17.3	10.9	6.9	15.4
Beryllium, Total	47	10	72	0.46 U	1.1	0.38 U	0.6 J	0.39 U	0.49 U	0.51 U	0.62	0.18 J	0.48 J	0.39 J	0.22 J	0.076 J	0.33 J	0.16 J	0.18 J	0.45 J
Cadmium, Total	7.5	4	4.3	2.2	11.2	2.5	42.8	20.6	32.9	2.6	4.5	0.074 J	0.19 J	0.16 J	0.11 J	0.057 J	0.17 J	0.14 J	0.054 U	0.061 U
Chromium (hexavalent)	19	1 [e]	110	1.2 U	1.3 U	0.99 U	1.4 U F1	1 U	1.3 U	1.3 U	1.4 U	0.56 U	0.57 U	0.59 U	0.58 U	0.62 U	0.68 U	0.59 U	0.55 U	0.65 U
Chromium (III)	NS	41	180	24.6	40.7	13.4	54.9	35.8	45	32.0	39.8	8.3	16	24.3	9.3	4.8	12.9	5.0	6.9	19.6
Copper, Total	1,720	50	270	122	837	84.4	401	231	316	143	187	7.6	31.7	22.5	7	2.2	5.9	6.3	3.5	11.8
Cyanide, Total	40	NS	27	0.29	0.1 J	0.1 J	0.33 F1	0.14	0.094 J	0.15	0.029 U	0.087 U	0.091 U	0.093 U	0.082 U	0.094 U	0.10 U	0.079 U	0.086 U	0.10 U
Lead, Total	450	63 [f]	400	97.8	241	77.2	351	217	297	155	233	27.1 B	6.3 B	7.3 B	16.4 B	5 B	5.5 B	15.8 B	3.1 B	9.5 B
Manganese, Total	2,000 [f]	1,600 [f]	2,000[f]	154	224	102	390	174	243	201	260	96.5	40.5	67.1	126	46.1	157	52.4	59.2	96.8
Nickel, Total	130	30	310	23.5	41.1	13.5	30	20.7	25.8	21.8	39.7	4	6.9	8.6	6	2.3	8.1	4.1	3.6	9.7
Selenium, Total	4 [f]	3.9 [f]	180	2 J	2.6	1.5 U	5.6 J	4	4.1 J	4.7 J	3.4 J	0.59 U	1.4 U	0.68 U	0.55 U	0.56 U	0.76 U	0.5 U	0.61 U	0.68 U
Silver, Total	8.3	2	180	9.5	59.7	13.3	247	137	205	20.9	21.8	0.2 J	0.18 U	0.087 U	0.43 U	0.072 U	0.097 U	0.064 U	0.078 U	0.088 U
Zinc, Total	2,480	109 [f]	10,000[d]	179	286	92.1	280	180	203	187	244	22.5	28.3	60.4	27.1	8	22.2	55.1	13.9	37.2
Mercury, Total	0.73	0.18 [f]	0.81[j]	0.28	0.48	0.18	0.32 F1	0.45	0.69	0.37	0.23	0.06 B	0.039 B	0.034 JB	0.025 JB	0.039 JB	0.011 JB	0.0450 B	0.048 B	0.072 B

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Grounwater Soil Cleanup Objective Table 375-6.8b 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Ecological Resources Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06
* Site Specific Cleanup Objective
d - The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.
e - For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.
f - For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the department and department of health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.
j - This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.
NS - No Standard
B - Compound was found in the blank and sample.
J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.
F1 - MS and/or MSD Recovery is outside acceptance limits.
U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).
UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The "UJ" data may be biased
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater SCO
Highlighted text denotes concentrations exceeding NYSDECProtection of Ecological Resources SCO

Table 7
Soil Sample Analytical Data Summary
Pesticides / Herbicide
EPA Method 8081 / 8151

Glen Cove Creek Sediment Sampling

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:				A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:				200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Organochlorine Pesticides (µg/kg)																				
4,4'-DDD	14,000	3.3 [e]	13,000	1.1 U	0.96 U	0.97 U	1.0 U	1.0 U	1.1 U	1.9 U	1.9 U	1.2 U	1.5 U	1.7 U	1.4 U	1.0 U	1.2 U	1.1 U	1.3 U	1.3 U
4,4'-DDE	17,000	3.3 [e]	8,900	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	2.1 U	2.1 U	1.3 U	1.7 U	1.9 U	1.6 U	1.2 U	1.3 U	1.3 U	1.4 U	1.4 U
4,4'-DDT	136,000	3.3 [e]	7,900	0.88 U *	0.75 U *	0.76 U *	0.79 U *	0.82 U *	0.84 U	1.5 U F1	1.5 U	0.95 U	1.2 U	1.3 U	1.1 U	0.82 U	0.92 U	0.90 U	0.98 U *	1.0 U *
Aldrin	190	140	97	1.0 U	0.88 U	0.89 U	0.92 U	0.96 U	0.99 U	1.7 U	1.8 U	1.1 U	1.4 U	1.6 U	1.3 U	0.97 U	1.1 U	1.1 U	1.2 U	1.2 U
Alpha-BHC	20	40 [g]	480	0.77 U	0.66 U	0.67 U	0.70 U	0.72 U	0.74 U	1.3 U	1.3 U	0.84 U	1.0 U	1.2 U	0.98 U	0.73 U	0.82 U	0.79 U	0.87 U	0.89 U
Alpha-Chlordane	2,900	1,300	4,200	1.4 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	2.3 U	2.4 U	1.5 U	1.9 U	2.1 U	1.8 U	1.3 U	1.5 U	1.4 U	1.5 U	1.6 U
Beta-BHC	90	600	360	0.83 U	0.71 U	0.71 U	0.74 U	0.77 U	0.79 U	1.4 U	1.4 U	0.90 U	1.1 U	1.3 U	1.0 U	0.77 U	0.87 U	0.85 U	0.92 U	0.95 U
Chlordane (technical)	NS	NS	NS	37 U	32 U	32 U	34 U	35 U	36 U	63 U	65 U	41 U	50 U	57 U	47 U	35 U	40 U	38 U	42 U	43 U
Delta-BHC[g]	250	40 [g]	100,000[c]	0.93 U	0.79 U	0.80 U	0.83 U	0.87 U	0.89 U	1.6 U	1.6 U	1.0 U	1.2 U	1.4 U	1.2 U	0.87 U	0.98 U	0.95 U	1.0 U	1.1 U
Dieldrin	100	6	200	1.1 U	0.95 U	0.96 U	0.99 U	1.0 U	1.1 U	1.9 U	1.9 U	1.2 U	1.5 U	1.7 U	1.4 U	1.0 U	1.2 U	1.1 U	1.2 U	1.3 U
Endosulfan I [d,f]	102,000	NS	24,000[i]	1.2 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	2.0 U	2.0 U	1.3 U	1.6 U	1.8 U	1.5 U	1.1 U	1.2 U	1.2 U	1.3 U	1.4 U
Endosulfan II [d,f]	102,000	NS	24,000[i]	1.3 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	2.2 U	2.3 U	1.5 U	1.8 U	2.0 U	1.7 U	1.3 U	1.4 U	1.4 U	1.5 U	1.5 U
Endosulfan sulfate [d,f]	1,000,000 [c]	NS	24,000[i]	0.99 U	0.85 U	0.86 U	0.89 U	0.92 U	0.95 U	1.7 U	1.7 U	1.1 U	1.3 U	1.5 U	1.3 U	0.93 U	1.0 U	1.0 U	1.1 U	1.1 U
Endrin	60	14	11,000	1.1 U	0.93 U	0.93 U	0.97 U	1.0 U	1.0 U	1.8 U	1.9 U	1.2 U	1.5 U	1.6 U	1.4 U	1.0 U	1.1 U	1.1 U	1.2 U	1.2 U
Gamma-BHC (Lindane)	100	6,000	1,300	0.76 U	0.65 U	0.66 U	0.68 U	0.71 U	0.73 U	1.3 U	1.3 U	0.83 U	1.0 U	1.2 U	0.96 U	0.72 U	0.80 U	0.78 U	0.85 U	0.88 U
Gamma-Chlordane	NS	NS	NS	1.8 U	1.6 U	1.6 U	1.7 U	1.7 U	1.8 U	3.1 U	3.2 U	2.0 U	2.5 U	2.8 U	2.3 U	1.7 U	1.9 U	1.9 U	2.1 U	2.1 U
Heptachlor	380	140	2,100	1.1 U	0.94 U	0.95 U	0.98 U	1.0 U	1.0 U	1.8 U	1.9 U	1.2 U	1.5 U	1.7 U	1.4 U	1.0 U	1.2 U	1.1 U	1.2 U	1.3 U
Mirex	NS	NS	NS	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	1.6 U	2.8 U	2.8 U	1.8 U	2.2 U	2.5 U	2.1 U	1.5 U	1.7 U	1.7 U	1.8 U	1.9 U
Herbicides (µg/kg)																				
Silvex (2,4,5-TP)	3,800	NS	NS	14 U	12 U	13 U	13 U	13 U	14 U	24 U F1	25 U	16 U	19 U	22 U	18 U	14 U	15 U	15 U	16 U	17 U

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use	RXR10	RXR11		RXR12			RXR13		RXR14			RXR15			RXR16		
Segment:				B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:				200-29316-13	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Organochlorine Pesticides (µg/kg)																				
4,4'-DDD	14,000	3.3 [e]	13,000	1.2 U	1.4 U	1.0 U	1.5 U	1.1 U	1.4 U	1.4 U	1.5 U	0.28 U	0.27 U	0.27 U	0.27 U	0.29 U	0.31 U	0.27 U	0.25 U	0.30 U
4,4'-DDE	17,000	3.3 [e]	8,900	1.4 U	1.5 U	1.2 U	1.7 U	1.2 U	1.5 U	1.5 U	1.6 U	0.28 U	0.27 U	0.27 U	0.27 U	0.29 U	0.31 U	0.27 U	0.25 U	0.30 U
4,4'-DDT	136,000	3.3 [e]	7,900	0.97 U *	1.1 U *	0.82 U *	1.2 U F1 *	0.86 U *	1.1 U *	1.1 U	1.1 U	0.54 U	0.53 U	0.53 U	0.53 U	0.57 U	0.60 U	0.53 U	0.50 U	0.59 U
Aldrin	190	140	97	1.1 U	1.3 U	0.96 U	1.4 U	1.0 U	1.3 U	1.3 U	1.3 U	0.23 U	0.23 U	0.23 U	0.23 U	0.24 U	0.26 U	0.22 U	0.21 U	0.25 U
Alpha-BHC	20	40 [g]	480	0.86 U	0.95 U	0.72 U	1.1 U	0.76 U	0.94 U	0.95 U	1.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.26 U	0.27 U	0.23 U	0.22 U	0.27 U
Alpha-Chlordane	2,900	1,300	4,200	1.5 U	1.7 U	1.3 U	1.9 U	1.4 U	1.7 U	1.7 U	1.8 U	0.28 U	0.27 U	0.27 U	0.27 U	0.29 U	0.31 U	0.38 J	0.25 U	0.30 U
Beta-BHC	90	600	360	0.92 U	1.0 U	0.77 U	1.1 U	0.81 U	1.0 U	1.0 U	1.1 U	0.31 U	0.30 U	0.31 U	0.31 U	0.33 U	0.44 J	0.30 U	0.29 U	0.34 U
Chlordane (technical)	NS	NS	NS	42 U	46 U	35 U	51 U	37 U	46 U	46 U	49 U	0.75 U	0.73 U	0.74 U	0.74 U	0.79 U	0.84 U	3.3 J	0.69 U	0.82 U
Delta-BHC[g]	250	40 [g]	100,000[c]	1.0 U	1.1 U	0.87 U	1.3 U	0.91 U	1.1 U	1.1 U	1.2 U	0.40 U	0.39 U	0.40 U	0.40 U	0.43 U	0.45 U	0.39 U	0.37 U	0.44 U
Dieldrin	100	6	200	1.2 U	1.4 U	1.0 U	1.5 U	1.1 U	1.3 U	1.4 U	1.4 U	0.42 U	0.42 U	0.42 U	0.42 U	0.45 U	0.48 U	0.41 U	0.39 U	0.47 U
Endosulfan I [d,f]	102,000	NS	24,000[i]	1.3 U	1.5 U	1.1 U	1.6 U	1.2 U	1.4 U	1.5 U	1.5 U	0.40 U	0.39 U	0.40 U	0.40 U	0.43 U	0.45 U	0.39 U	0.37 U	0.44 U
Endosulfan II [d,f]	102,000	NS	24,000[i]	1.5 U	1.6 U	1.2 U	1.8 U	1.3 U	1.6 U	1.6 U	1.7 U	0.44 U	0.43 U	0.43 U	0.43 U	0.46 U	0.49 U	0.43 U	0.40 U	0.48 U
Endosulfan sulfate [d,f]	1,000,000 [c]	NS	24,000[i]	1.1 U	1.2 U	0.93 U	1.4 U	0.97 U	1.2 U	1.2 U	1.3 U	0.59 J	0.47 U	0.48 U	0.48 U	0.51 U	0.54 U	0.47 U	0.45 U	0.53 U
Endrin	60	14	11,000	1.2 U	1.3 U	1.0 U	1.5 U	1.1 U	1.3 U	1.3 U	1.4 U	0.44 U	0.43 U	0.43 U	0.43 U	0.46 U	0.49 U	0.43 U	0.40 U	0.48 U
Gamma-BHC (Lindane)	100	6,000	1,300	0.85 U	0.94 U	0.71 U	1.0 U	0.75 U	0.93 U	0.94 U	0.99 U	0.36 U	0.35 U	0.35 U	0.35 U	0.38 U	0.40 U	0.35 U	0.33 U	0.39 U
Gamma-Chlordane	NS	NS	NS	2.0 U	2.3 U	1.7 U	2.5 U	1.8 U	2.2 U	2.3 U	2.4 U	0.40 U	0.39 U	0.40 U	0.40 U	0.43 U	0.45 U	0.39 U	0.37 U	0.44 U
Heptachlor	380	140	2,100	1.2 U	1.3 U	1.0 U	1.5 U	1.1 U	1.3 U	1.3 U	1.4 U	0.38 U	0.37 U	0.37 U	0.37 U	0.40 U	0.42 U	0.37 U	0.35 U	0.42 U
Mirex	NS	NS	NS	1.8 U	2.0 U	1.5 U	2.2 U	1.6 U	2.0 U	2.0 U	2.1 U	3.8 U	3.7 U	3.7 U	3.7 U	4.0 U	4.2 U	3.7 U	3.5 U	4.2 U
Herbicides (µg/kg)																				
Silvex (2,4,5-TP)	3,800	NS	NS	16 U	18 U	14 U	20 U F1	14 U	18 U	18 U	19 U	2.1 U	2.1 U	2.1 U	2.1 U	2.4 U	2.4 U	2.1 U	2.0 U	2.4 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Grounwater Soil Cleanup Objective Table 375-6.8b 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Ecological Resources Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06
a - The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.
c - The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1,000,000 ppb.
d - SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate
e - For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.
f - protection of ecological resources SCOs were not deveoped for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.
g - This SCO is derived from data on mixed isomers of BHC.
i - This SCO is for the sum of Endosulfan I, endosulfan II, and endosulfan sulfate.
NS - No Standard
* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC
J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.
U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).
F1 - Duplicate RPD exceeds the control limit
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater SCO
Highlighted text denotes concentrations exceeding NYSDECProtection of Ecological Resources SCO

Table 8
Soil Sample Analytical Data Summary
PCBS
EPA Method 8082

Glen Cove Creek Sediment Sampling

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use (Top 2 Feet)	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use (Below Top 2 Feet)	RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:					A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:					200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:					8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Polychlorinated Biphenyls (µg/kg)																					
Aroclor 1016	3,200	1,000	1,000	10,000	1.9 U	1.4 U	1.5 U	1.7 U	1.7 U *	1.6 U *	6.1 U * F1	2.9 U *	1.8 U *	4.7 U	27 U *	4.4 U *	3.4 U *	3.8 U *	6.9 U *	2.1 U	2.2 U
Aroclor 1221	3,200	1,000	1,000	10,000	1.9 U	1.4 U	1.5 U	1.7 U	1.7 U	1.6 U	6.1 U	2.9 U	1.8 U	4.7 U	27 U	4.4 U	3.4 U	3.8 U	6.9 U	2.1 U	2.2 U
Aroclor 1232	3,200	1,000	1,000	10,000	1.9 U	1.4 U	1.5 U	1.7 U	1.7 U	1.6 U	6.1 U	2.9 U	1.8 U	4.7 U	27 U	4.4 U	3.4 U	3.8 U	6.9 U	2.1 U	2.2 U
Aroclor 1242	3,200	1,000	1,000	10,000	1.9 U	1.4 U	1.5 U	1.7 U	1.7 U	13 J p	840	210 p	180 p	4.7 U	1,800	280 p	98	170 p	310 p	2.1 U	2.2 U
Aroclor 1248	3,200	1,000	1,000	10,000	1.9 U	1.4 U	1.5 U	1.7 U	1.7 U	1.6 U	6.1 U	2.9 U	1.8 U	4.7 U	27 U	4.4 U	3.4 U	3.8 U	6.9 U	2.1 U	2.2 U
Aroclor 1254	3,200	1,000	1,000	10,000	10 J	9.2 J	5.3 J	8.6 J p	36	16 J	850 E	300	220	670	1,200	420	110 p	350	590	120 p	180 p
Aroclor 1260	3,200	1,000	1,000	10,000	3.4 U	2.6 U	2.7 U	3 U	3.1 U *	2.9 U *	11 U * F1	5.2 U *	3.3 U *	270	49 U *	7.9 U *	6 U *	6.7 U *	12 U *	3.7 U	3.9 U

Client Sample ID:	Protection of Groundwater [1] SCOs	Protection of Ecological Resources [2] SCOs	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use (Top 2 Feet)	NYSDEC [3] Soil Cleanup Objectives Restricted-Residential Use (Below Top 2 Feet)	RXR10	RXR11		RXR12			RXR13			RXR14			RXR15			RXR16	
Segment:					B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:					200-29316-13	200-29316-11	200-29316-12	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	2002515-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:					8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Polychlorinated Biphenyls (µg/kg)																					
Aroclor 1016	3,200	1,000	1,000	10,000	4 U	9 U	1.7 U	12 U F1	6.7 U	11 U	2.1 U *	2.3 U *	3.7 U	3.6 U	3.6 U	3.5 U	3.9 U	4.1 U	3.6 U	3.4 U	4.0 U
Aroclor 1221	3,200	1,000	1,000	10,000	4 U	9 U	1.7 U	12 U	6.7 U	11 U	2.1 U	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U	2.4 U	2.6 U	2.2 U	2.1 U	2.5 U
Aroclor 1232	3,200	1,000	1,000	10,000	4 U	9 U	1.7 U	12 U	6.7 U	11 U	2.1 U	2.3 U	6.8 U	6.7 U	6.7 U	6.5 U	7.2 U	7.6 U	6.6 U	6.3 U	7.5 U
Aroclor 1242	3,200	1,000	1,000	10,000	500 p	600 Ep	1.7 U	12 U	430 p	790 p	100	90	2.4 U	2.4 U	2.4 U	2.3 U	2.6 U	2.7 U	2.3 U	2.2 U	2.7 U
Aroclor 1248	3,200	1,000	1,000	10,000	4 U	9 U	1.7 U	12 U	6.7 U	11 U	2.1 U	2.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	1.5 U	1.8 U
Aroclor 1254	3,200	1,000	1,000	10,000	510	680	53 p	630 p	490	900	100 p	94 p	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	1.1 U	1.1 U	1.3 U
Aroclor 1260	3,200	1,000	1,000	10,000	7.2 U	16 U	3.1 U	22 U F1	12 U	19 U	3.8 U *	4.1 U *	3.7 U	3.6 U	3.6 U	3.5 U	3.9 U	4.1 U	3.6 U	3.4 U	4.0 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Grounwater Soil Cleanup Objective Table 375-6.8b 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Protection of Ecological Resources Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use of Soil Cleanup Objective Table 375-6.8b 12/06
J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.
* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC
p - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1 - Duplicate Relative Percent Difference (RPD) exceeds the control limit
E - Result exceeded calibration range.
U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater SCO
Highlighted text denotes concentrations exceeding NYSDECProtection of Ecological Resources SCO

Table 9
Soil Sample Analytical Data Summary
Dioxins
EPA Method 1613

Glen Cove Creek Sediment Sampling

Client Sample ID:	EPA 1989	RXR01						RXR02			RXR03			RXR04		
Segment:	TEF	A		B		C		A			C			A		
Laboratory ID:	Value	200-29316-17		200-29316-18		200-29316-19		200-29316-2			200-29316-7			200-29296-14		
Sampling Date:		8/17/2015		8/17/2015		8/17/2015		8/17/2015			8/17/2015			8/14/2015		
		Result		Result		Result		Result			Result			Result		
			TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.			TEQ Conc.			TEQ Conc.	
Dioxins / Furans (pg/g)																
2,3,7,8-TCDD	1.0	0.318 U	0.3180	0.257 U	0.257	0.275 U	0.275	0.29 U	0.2900		0.313 U	0.313		0.108 U	0.1080	
1,2,3,7,8-PeCDD	0.5	0.828 QJ	0.414	0.203 QJ	0.1015	0.115 U	0.0575	0.541 QJ	0.2705		0.789 QJ	0.3945		0.546 QJ	0.273	
1,2,3,4,7,8-HxCDD	0.1	0.417 QJ	0.0417	0.0928 U	0.00928	0.166 QJ	0.0166	0.613 J	0.0613		0.466 QJ	0.0466		0.729 QJ	0.0729	
1,2,3,6,7,8-HxCDD	0.1	0.613 QJ	0.0613	0.257 QJ	0.0257	0.402 J	0.0402	1.13 J	0.0113		1.46 J	0.146		1.16 J	0.116	
1,2,3,7,8,9-HxCDD	0.1	1.05 QJ	0.105	0.63 J	0.0633	1.64 CJ	0.164	1.77 J	0.177		1.46 J	0.146		1.67 QJ	0.167	
1,2,3,4,6,7,8-HpCDD	0.01	17.2 B	0.172	6.11 B	0.0611	26.2 B	0.262	36.0 B	0.36		39.5 B	0.395		29.4 B	0.294	
OCDD	0.001	1.320 B	1.32	323 B	0.323	2,180 B	2.18	836 B	0.836		716 B	0.716		991 B	0.991	
2,3,7,8-TCDF	0.1	0.899 J	0.0899	0.526 J	0.0526	0.377 QJ	0.0377	1.06	0.0106		1.25	0.125		0.803 QJ	0.0803	
1,2,3,7,8-PeCDF	0.05	0.828 QJ	0.0414	0.332 QJ	0.0166	0.118 QJ	0.0059	0.772 J	0.0386		0.772 J	0.0386		0.462 J	0.0231	
2,3,4,7,8-PeCDF	0.5	1.36 J	0.68	0.585 QJ	0.2925	0.251 QJ	0.1255	1.18 J	0.59		1.51 J	0.755		0.662 J	0.331	
1,2,3,4,7,8-HxCDF	0.1	2 QJ	0.2	0.678 QJ	0.0678	0.558 QJ	0.0558	2.54 QJ	0.254		2.85 CJ	0.285		0.674 J	0.0674	
1,2,3,6,7,8-HxCDF	0.1	1.29 QJ	0.129	0.49 QJ	0.049	0.295 QJ	0.0295	1.35 J	0.135		1.44 QJ	0.144		1.03 QJ	0.103	
2,3,4,6,7,8-HxCDF	0.1	1 QJ	0.1	0.427 J	0.0427	0.207 QJ	0.0207	1.1 QJ	0.11		1.04 J	0.104		0.679 QJ	0.0679	
1,2,3,7,8,9-HxCDF	0.1	0.128 U	0.0128	0.0658 U	0.00658	0.0838 U	0.00838	0.101 U	0.0101		0.0984 U	0.00984		0.256 QJ	0.0256	
1,2,3,4,6,7,8-HpCDF	0.01	6.770	0.0677	2.110 J	0.0211	1.28 J	0.0128	8.190	0.0819		7.700	0.077		7.360 B	0.0736	
1,2,3,4,7,8,9-HpCDF	0.01	1.29 J	0.0129	0.35 J	0.0035	0.0942 U	0.000942	0.761 QJ	0.00761		0.819 QJ	0.00819		0.624 J	0.00624	
OCDF	0.001	9.57 QBJ	0.00957	2.95 BJ	0.00295	2.14 BJ	0.00214	9.48 QBJ	0.00948		10.8 B	0.0108		12.7 B	0.0127	
Total TEQ Concentration			3.78		1.40		3.29		3.45			3.71			2.81	

Client Sample ID:	EPA 1989	RXR05									RXR07						RXR08						RXR09					
Segment:	TEF	A		B		C					A		B		C		A		B		C		B		C			
Laboratory ID:	Value	200-29296-2		200-29296-3		200-29296-4					200-29296-8		200-29296-9		200-29296-10		200-29296-11		200-29296-12		200-29296-13		200-29316-15		200-29316-16			
Sampling Date:		8/14/2015		8/14/2015		8/14/2015					8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/17/2015		8/17/2015			
		Result		Result		Result					Result		Result		Result		Result		Result		Result		Result		Result			
			TEQ Conc.		TEQ Conc.		TEQ Conc.					TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		
Dioxins / Furans (pg/g)																												
2,3,7,8-TCDD	1.0	1.19 QJ	1.1900	1.54	1.54	0.437 QJ	0.437				2.2	2.2000	1.38	1.4	1.25 Q	1.25	0.407 U	0.4070	0.621 QJ	0.621	1.74 Q	1.74	0.828 QJ	0.8280	0.51 QJ	0.51		
1,2,3,7,8-PeCDD	0.5	2.1 J	1.05	3.58 J	1.79	1.71 QJ	0.855				9.33	4.665	4.88 QJ	2.44	5.72	2.86	0.626 QJ	0.313	1.52 QJ	0.76	2.82 J	1.41	5.04	2.52	3.86 J	1.93		
1,2,3,4,7,8-HxCDD	0.1	2.99 J	0.299	4.3 J	0.43	2.01 J	0.201				13.1	1.31	6.57 Q	0.657	9.16	0.916	0.615 J	0.0615	1.86 QJ	0.186	3.75 J	0.375	4.44 QJ	0.444	4.43 QJ	0.443		
1,2,3,6,7,8-HxCDD	0.1	8.89	0.889	17.2	1.72	9.8	0.98				40.2	4.02	17.6	1.76	25.2	2.52	2.41 J	0.241	5.27	0.527	12.7	1.27	9.36	0.936	8.95	0.895		
1,2,3,7,8,9-HxCDD	0.1	7.35	0.735	14.00 C	1.4	8.24 C	0.824				34.9 C	3.49	16.70 C	1.67	22.9 C	2.29	2.38 QJ	0.238	4.60 JC	0.46	10.6 C	1.06	11.2 C	1.12	11.50 C	1.15		
1,2,3,4,6,7,8-HpCDD	0.01	196.0 B	1.96	517 B	5.17	155 B	1.55				820.0 B	8.2	315 B	3.15	429 B	4.29	55.0 B	0.55	138 B	1.38	374 B	3.74	121.0 B	1.21	156 B	1.56		
OCDD	0.001	2,890 B	2.89	6,870 BE	6.87	4,970 BE	4.97				10,300 BE	10.3	4,290 BE	4.29	5,280 BE	5.28	909 B	0.909	2,040 B	2.04	5,400 BE	5.4	1,330 B	1.33	1,550 B	1.55		
2,3,7,8-TCDF	0.1	9.48	0.948	13.7	1.37	11.3	1.13				14.4	1.44	15.3	1.53	17.7	1.77	2.38	0.238	8.26	0.826	15.7	1.57	2.75	0.275	3.5	0.35		
1,2,3,7,8-PeCDF	0.05	4.41 J	0.2205	5.96 QJ	0.298	4.79 QJ	0.2395				10.5	0.525	7.04 Q	0.352	9.04 Q	0.452	1.12 J	0.056	3.3 J	0.165	6.2	0.31	3.11 J	0.1555	3.34 J	0.167		
2,3,4,7,8-PeCDF	0.5	8.27	4.135	10.4	5.2	11.5	5.75				20.7	10.35	14.7	7.35	17.1	8.55	2.4 J	1.2	6.64	3.32	12.3	6.15	5.84	2.92	5.48	2.74		
1,2,3,4,7,8-HxCDF	0.1	15.9 Q	1.59	21.2 Q	2.12	21.1 C	2.11				67.8 Q	6.78	34.1 C	3.41	43.7 C	4.37	4.19 J	0.419	10.3 C	1.03	24.4 Q	2.44	7.58 Q	0.758	15.7 Q	1.57		
1,2,3,6,7,8-HxCDF	0.1	6.28	0.628	17.2	1.72	6.05	0.605				28.6	2.86	12.6	1.26	18.4 Q	1.84	2.97 J	0.297	7.24	0.724	9.61	0.961	6.87 Q	0.687	7.22	0.722		
2,3,4,6,7,8-HxCDF	0.1	5.64 J	0.564	7.42	0.742	4.5 J	0.45				40.4	4.04	15.9	1.59	23.7	2.37	2.03 QJ	0.203	4.6 J	0.46	7.72	0.772	6.15	0.615	7.47	0.747		
1,2,3,7,8,9-HxCDF	0.1	0.428 QJ	0.0428	0.301 U	0.0301	0.215 U	0.0215				1.92 QJ	0.192	1.27 QJ	0.127	1.77 J	0.177	0.225 U	0.0225	0.462 QJ	0.0462	0.646 J	0.0646	0.304 U	0.0304	0.341 U	0.0341		
1,2,3,4,6,7,8-HpCDF	0.01	49.900 QB	0.499	79.900 B	0.799	49.2 B	0.492				275.000 B	2.75	109.000 B	1.09	158 B	1.58	14.900 B	0.149	44.700 QB	0.447	85.2 B	0.852	48.800	0.488	58.400	0.584		
1,2,3,4,7,8,9-HpCDF	0.01	3.76 J	0.0376	6.6 Q	0.066	4.04 J	0.0404				23.5 Q	0.235	11.7	0.117	16	0.16	1.54 QJ	0.0154	3.04 J	0.0304	6.51 Q	0.0651	3.97 QJ	0.0397	5.85 Q	0.0585		
OCDF	0.001	86.3 B	0.0863	214 B	0.214	78.6 B	0.0786				403 QB	0.403	156 B	0.156	230 B	0.23	26.1 B	0.0261	53.7 B	0.0537	163 B	0.163	63 QB	0.063	81.5 B	0.0815		
Total TEQ Concentration			17.8		31.5		20.7					63.8		32.3		40.9		5.35		13.1		28.3		14.4		15.1		

Client Sample ID:	EPA 1989	RXR10		RXR11				RXR12			RXR13			RXR14			RXR15			RXR16			
Segment:	TEF	B		B		C		A		B	C			A	B	C	A	B	C	A	B	C	
Laboratory ID:	Value	200-29316-13		200-29316-11		200-29316-12		200-29316-8		200-29316-9	200-29316-10			200-29279-1	200-29279-2		200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/17/2015	8/17/2015			8/13/2015	8/13/2015		10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
		Result		Result		Result		Result			Result			Result			Result			Result			Result		
			TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.			TEQ Conc.			TEQ Conc.			TEQ Conc.			TEQ Conc.		TEQ Conc.		TEQ Conc.
Dioxins / Furans (pg/g)																									
2,3,7,8-TCDD	1.0	0.997 Q	0.997	0.653 QJ	0.653	0.3 J	0.3	0.42 U	0.4200		0.542 U	0.542		0.459 U	0.459		1.33 Q	1.33	1.1	1.1	ND	0.0450	ND	0.0575	ND	0.0432
1,2,3,7,8-PeCDD	0.5	1.26 J	0.63	2.74 J	1.37	1.54 J	0.77	1.28 J	0.64		1.06 QJ	0.53		1.97 J	0.985		2.9 QJ	1.45	7.23	3.615	0.528 QBJ	0.264	ND	0.0177	ND	0.0131
1,2,3,4,7,8-HxCDD	0.1	1.8 QJ	0.18	3.18 J	0.318	2.34 J	0.234	1.69 J	0.169		0.999 J	0.0999		1.96 QJ	0.196		4.34 J	0.434	11 Q	1.1	0.758 J	0.0758	ND	0.00335	ND	0.00296
1,2,3,6,7,8-HxCDD	0.1	4.1 J	0.41	7.51	0.751	4.82 J	0.482	4.43 J	0.443		2.75 J	0.275		8.06	0.806		14	1.4	21.6	2.16	1.17 J	0.117	0.487 QJ	0.0487	ND	0.00306
1,2,3,7,8,9-HxCDD	0.1	4.38 CJ	0.438	7.74 Q	0.774	5.13 C	0.513	4.34 QJ	0.434		2.65 J	0.265		6.11 C	0.611		9.97 C	0.997	29 C	2.9	2.79 QJ	0.279	2.50 QJ	0.250	1.01 J	0.101
1,2,3,4,6,7,8-HpCDD	0.01	88.6 B	0.886	102 B	1.02	94.8 B	0.948	89.7 B	0.897		51.1 B	0.511		172 B	1.72		190 B	1.9	326 B	3.26	54.0 B	0.540	83.4 B	0.834	22.2 B	0.222
OCDD	0.001	1,140 B	1.14	1,140 B	1.14	1,220 B	1.22	1,180 B	1.18		587 B	0.587		2,340 B	2.34		2,170 B	2.17	3,100 B	3.1	3,140 B	3.14	8,110 BE	8.11	2,220 B	2.22
2,3,7,8-TCDF	0.1	1.93	0.193	2.56	0.256	1.66	0.166	1.95	0.195		2.59	0.259		6.19	0.619		6.04	0.604	6.61	0.661	0.0693 QJ	0.00693	0.0474 QJ	0.00474	ND	0.000745
1,2,3,7,8-PeCDF	0.05	1.27 QJ	0.0635	2.6 QJ	0.13	1.31 QJ	0.0655	1.27 QJ	0.0635		1.88 QJ	0.094		3.86 QJ	0.193		3.86 QJ	0.193	7.45	0.3725	ND	0.000558	ND	0.000535	ND	0.000582
2,3,4,7,8-PeCDF	0.5	2.03 J	1.015	3.26 J	1.63	1.87 J	0.935	2.11 J	1.055		2.8 J	1.4		6.19	3.095		6.1 Q	3.05	10.9 Q	5.45	ND	0.00552	ND	0.00552	ND	0.00580
1,2,3,4,7,8-HxCDF	0.1	5.45 Q	0.545	12.1 Q	1.21	3.8 QJ	0.38	4.77 QJ	0.477		5.34 C	0.534		12.6 C	1.26		15.3 Q	1.53	42.9 Q	4.29	0.127 QJ	0.0127	0.104 QJ	0.0104	ND	0.000920
1,2,3,6,7,8-HxCDF	0.1	2.77 QJ	0.277	5.34	0.534	3.21 QJ	0.321	3.99 QJ	0.399		2.33 QJ	0.233		7.31	0.731		6.85	0.685	18.3	1.83	0.0664 QJ	0.00664	0.173 J	0.0173	ND	0.000890
2,3,4,6,7,8-HxCDF	0.1	2.04 QJ	0.204	5.78	0.578	2.75 QJ	0.275	2.69 J	0.269		2.05 J	0.205		4.87 Q	0.487		6.04	0.604	20.1	2.01	0.141 J	0.0141	ND	0.000825	ND	0.000925
1,2,3,7,8,9-HxCDF	0.1	0.233 U	0.0233	0.365 U	0.0365	0.189 U	0.0189	0.17 U	0.017		0.266 QJ	0.0266		0.515 J	0.0515		0.395 J	0.0395	1.21 QJ	0.121	ND	0.00134	ND	0.00113	ND	0.00120
1,2,3,4,6,7,8-HpCDF	0.01	30.8	0.308	46.200	0.462	32.1	0.321	35.500	0.355		20.200	0.202		54.7	0.547		68.400 B	0.684	172 B	1.72	0.170 QBJ	0.00170	0.110 QBJ	0.00110	0.0855 QBJ	0.000855
1,2,3,4,7,8,9-HpCDF	0.01	3.32 J	0.0332	3.12 J	0.0312	2.9 J	0.029	2.57 J	0.0257		1.25 QJ	0.0125		4.71 J	0.0471		4.52 QJ	0.0452	12.2	0.122	ND	0.000228	ND	0.000120	ND	0.0000980
OCDF	0.001	68.9 B	0.0689	79.8 B	0.0798	71.3 B	0.0713	67 B	0.067		29.6 B	0.0296		87.1 B	0.0871		89.9 B	0.0899	183 B	0.183	0.976 QBJ	0.000976	0.625 QBJ	0.000625	0.356 QBJ	0.000356
Total TEQ Concentration			7.41		11.0		7.05		7.11			5.81			14.2			17.2		34.0		4.51		9.36		2.62

Client Sample ID:	EPA 1989	RXR15						RXR16			
Segment:	TEF	A		B		C		A		B	C
Laboratory ID:	Value	200-25015-4		20025015-5		200-25015-6		200-25015-7		200-25015-8	200-25015-9
Sampling Date:		10/24/2014		10/24/2014		10/24/2014		10/24/2014		10/24/2014	10/24/2014
		Result		Result		Result		Result			
			TEQ Conc.		TEQ Conc.		TEQ Conc.		TEQ Conc.		
Dioxins / Furans (pg/g)											
2,3,7,8-TCDD	1.0	ND	0.0403	ND	0.0510	ND	0.0417	ND	0.0470	ND	0.0444	ND	0.0443
2,3,7,8-PeCDD	0.5	ND	0.0104	0.287 QBJ	0.143	0.963 BJ	0.482	0.753 QBJ	0.376	ND	0.0127	0.320 QBJ	0.160
1,2,3,4,7,8-HxCDD	0.1	0.297 QJ	0.0297	0.468 QJ	0.0468	1.58 QJ	0.158	1.04 J	0.104	0.623 QJ	0.0623	0.444 QJ	0.0444
1,2,3,6,7,8-HxCDD	0.1	0.476 QJ	0.0476	0.754 J	0.0754	1.96 J	0.196	1.48 J	0.148	0.746 QJ	0.0746	0.497 QJ	0.0497
1,2,3,7,8,9-HxCDD	0.1	1.22 QJ	0.122	1.07 J	0.107	4.83	0.483	3.31 J	0.331	4.01 QJ	0.401	3.03 J	0.303
1,2,3,4,6,7,8-HpCDD	0.01	57.8 B	0.578	22.4 B	0.224	90.0 B	0.900	60.7 B	0.607	132 B	1.32	79.5 B	0.795
OCDD	0.001	6,790 BE	6.79	967 B	0.967	4,390 BE	4.39	3,340 B	3.34	13,800 BE	13.8	7,850 BE	7.85
2,3,7,8-TCDF	0.1	0.109 QJ	0.0109	0.109 QJ	0.0109	0.0326 QJ	0.00326	0.4 J	0.0419	ND	0.000545	ND	0.000418
1,2,3,7,8-PeCDF	0.05	ND	0.000825	0.115 QJ	0.00575	ND	0.000452	0.326 QJ	0.0163	ND	0.000348	ND	0.000378
2,3,4,7,8-PeCDF	0.5	0.121 J	0.0605	ND	0.00765	ND	0.00440	0.296 J	0.148	ND	0.00322	ND	0.00365
1,2,3,4,7,8-HxCDF	0.1	0.330 J	0.0330	ND	0.000840	ND	0.000750	0.644 QJ	0.0644	ND	0.000600	ND	0.000630
1,2,3,6,7,8-HxCDF	0.1	0.194 QJ	0.0194	ND	0.000870	0.0759 QJ	0.00759	0.517 QJ	0.0517	ND	0.000550	ND	0.000630
2,3,4,6,7,8-HxCDF	0.1	0.0750 QJ	0.00750	ND	0.000895	0.0715 QJ	0.00715	0.299 J	0.0299	ND	0.000605	ND	0.000665
1,2,3,7,8,9-HxCDF	0.1	ND	0.00154	ND	0.00113	ND	0.000945	ND	0.00126	ND	0.000765	ND	0.000815
1,2,3,4,6,7,8-HpCDF	0.01	0.665 BJ	0.00665	0.190 QBJ	0.00190	0.281 QBJ	0.00281	1.34 QBJ	0.0134	ND	0.000100	0.0321 QBJ	0.000321
1,2,3,4,7,8,9-HpCDF	0.01	0.0931 QBJ	0.000931	ND	0.000110	ND	0.0000850	0.261 QBJ	0.00261	ND	0.000151	ND	0.000105
OCDF	0.001	1.24 QBJ	0.00124	0.410 QBJ	0.000410	0.255 BJ	0.000255	1.28 BJ	0.00128	0.376 BJ	0.000376	0.339 BJ	0.000339
Total TEQ Concentration			7.76		1.65		6.68		5.32		15.7		9.25

Notes:
(1) - Toxicity Equivalent Factor (TEF) Value as designated in the EPA 1989
B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C - Coeluting Isomer.
E - Estimated result. Result concentration exceeds the calibration range.
J - Estimated result.
Q - Estimated maximum possible concentration (EMPC).
U - Indicates the analyte was analyzed for but not detected.

Table 10
Soil Sample Analytical Data Summary
Radium-226 Other Gamma Emitters / Alpha Spectroscopy
EPA Method 901.1 / A-01-R

Glen Cove Creek Sediment Sampling

Client Sample ID:	Site Specific	RXR01						RXR02		RXR03		RXR04		RXR05					
Segment:		A		B		C		A		C		A		A		B		C	
Laboratory ID:	Soil Cleanup Objectives	200-29316-17		200-29316-18		200-29316-19		200-29316-2		200-29316-7		200-29296-14		200-29296-2		200-29316-3		200-29296-4	
Sampling Date:		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/14/2015		8/14/2015		8/14/2015		8/14/2015	
		Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)
Method 901.1 - Radium-226 & Other Gamma Emitters (GS) - (pCi/g)																			
Actinium 228	-	0.434	0.145	0.873	0.243	0.535	0.218	0.273 U	0.108	0.745	0.183	0.316	0.138	0.83	0.253	0.578	0.282	0.931	0.249
Bismuth-212	-	0.607 U	0.422	1.08 U	0.611	1.31 U	0.603	0.712 U	0.418	0.739 U	0.459	1.05 U	0.629	1.58 U	0.878	1.56 U	0.914	1.98 U	0.704
Bismuth-214	-	0.472	0.12	0.72	0.173	0.676	0.17	0.42	0.12	0.392	0.118	0.478	0.133	1.18	0.263	0.731	0.251	0.494	0.188
Lead-210	-	1.41 U	0.805	2.23 U	1.34	2.2 U	1.3	1.47 U	2.45	1.11 U	0.879	1.64 U	1.03	2.61 U	1.81	3.67 U	2.65	2.77 U	1.47
Lead-212	-	0.521	0.133	0.633	0.17	0.633	0.161	0.455	0.108	0.441	0.127	0.366	0.129	1.49	0.272	1.08	0.274	0.778	0.22
Lead-214	-	0.57	0.13	0.884	0.183	0.494	0.15	0.376	0.084	0.505	0.125	0.341	0.102	0.913	0.216	0.991	0.247	0.605	0.185
Potassium-40	-	5.39	1.11	8.74	1.73	7.15	1.6	6	1.31	6.44	1.21	4.17	1.27	9.87	2.26	11.7	2.49	6.94	1.89
Protactinium-231	-	1.15 U	0.697	1.67 U	0.913	2.25 U	0.307	1.23 U	0.322	1.69 U	0.309	1.76 U	0.547	2.42 U	1.12	3.3 U	0.702	1.98 U	1.18
Protactinium-234m	-	4.74 U	2.92	11 U	3.74	9.37 U	4.81	9.03 U	4.76	8.28 U	4.66	11 U	18.3	17 U	9.72	17.4 U	9.51	12 U	6.07
Radium-226	-	0.472	0.12	0.72	0.173	0.676	0.17	0.42	0.12	0.392	0.118	0.478	0.133	1.18	0.263	0.731	0.251	0.494	0.188
Radium-228	-	0.434	0.145	0.873	0.243	0.535	0.218	0.273 U	0.108	0.745	0.183	0.316	0.138	0.83	0.253	0.578	0.282	0.931	0.249
Thallium-208	-	0.197	0.0573	0.224	0.0663	0.127	0.0641	0.0713	0.0422	0.173	0.0624	0.0879 U	0.0622	0.416	0.111	0.3	0.11	0.344	0.123
Thorium-234	-	1.47 U	0.409	1.72 U	1.31	1.86 U	0.567	1.35 U	0.394	1.62	0.782	1.32 U	0.416	2.24 U	0.62	3.17 U	0.784	2.6 U	0.595
Uranium-235	-	0.341 U	0.196	0.55 U	0.0682	0.433 U	0.21	0.261 U	0.15	0.378 U	0.22	0.314 U	0.092	0.495 U	0.234	0.64 U	0.345	0.619 U	0.353
Uranium-238	-	1.47 U	0.409	1.72 U	1.31	1.86 U	0.567	1.35 U	0.394	1.62	0.782	1.32 U	0.416	2.24 U	0.62	3.17 U	0.784	2.6 U	0.595
Method A-01-R - Isotopic Thorium, Uranium, Combined Radium-226 & Radium-228 (AS) - (pCi/g)																			
Thorium-228	-	0.508	0.155	1.02	0.245	0.781	0.197	0.601	0.1670	0.584	0.1690	0.45	0.1010	1.41	0.228	1.19	0.18	0.863	0.164
Thorium-230	-	0.452	0.144	0.647	0.188	0.588	0.167	0.389	0.1340	0.397	0.1380	0.0612 U	0.1590	0.169	0.308	0.0851	0.251	0.0624 U	0.155
Thorium-232	-	0.486	0.148	0.658	0.189	0.569	0.163	0.367	0.1280	0.526	0.1590	0.494	0.0871	1.28	0.244	0.997	0.173	0.839	0.146
Uranium-233/234	-	0.486	0.152	0.585	0.169	0.663	0.182	0.643	0.181	0.728	0.193	0.19	0.147	0.999	0.281	0.704	0.254	0.557	0.21
Uranium-235/236	-	0.0681 U	0.046	0.0771 U	0.0478	0.0418 U	0.0395	0.0774 U	0.0552	0.0728 U	0.0633	0.525	0.0469	1.66	0.0985	1.26	0.0731	0.516	0.0479
Uranium-238	-	0.525	0.155	0.807	0.2	0.514	0.158	0.607	0.176	0.749	0.195	0.170	0.152	1.13	0.264	0.662	0.231	0.464	0.207
Thorium-230 + Thorium-232	≤ 5 + Background*	0.938	-	1.305	-	1.157	-	0.756	-	0.923	-	0.5552	-	1.449	-	1.0821	-	0.9014	-
Radium-226 + Radium-228	≤ 5 + Background*	0.906	0.188	1.593	0.298	1.211	0.276	0.591	0.161	1.137	0.218	0.794	0.192	2.01	0.372	1.309	0.378	1.425	0.312

Client Sample ID:	Site Specific	RXR07						RXR08						RXR09			
Segment:		A		B		C		A		B		C		B		C	
Laboratory ID:	Soil Cleanup Objectives	200-29296-8		200-29296-9		200-29296-10		200-29296-11		200-29296-12		200-29296-13		200-29316-15		200-29316-16	
Sampling Date:		8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/14/2015		8/17/2015		8/17/2015	
		Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)
Method 901.1 - GA-01-R - Radium-226 & Other Gamma Emitters (GS) - (pCi/g)																	
Actinium 228	-	0.818	0.293	1.38	0.333	0.532	0.187	0.308	0.149	0.269	0.146	0.338	0.149	0.391	0.139	0.486 U	0.216
Bismuth-212	-	1.44 U	0.861	1.49 U	0.913	1.08 U	0.66	1.1 U	0.597	0.782 U	0.471	0.777 U	0.406	0.665 U	0.431	1.49 U	0.829
Bismuth-214	-	0.579	0.206	0.798	0.221	0.59	0.211	0.375	0.138	0.171	0.096	0.479	0.116	0.354	0.0949	0.329	0.153
Lead-210	-	2.66 U	1.92	3.71 U	2.58	2.57 U	1.48	1.74 U	1.15	2.06 U	1.33	1.43 U	0.911	1.3 U	0.985	2.23	1.31
Lead-212	-	0.794	0.208	1.07	0.25	0.681	0.168	0.575	0.135	0.387	0.12	0.452	0.111	0.428	0.116	0.557	0.153
Lead-214	-	0.594	0.194	1.04	0.234	0.249	0.131	0.402	0.126	0.368	0.127	0.461	0.105	0.403	0.0977	0.655	0.163
Potassium-40	-	5.83	1.75	11	2.22	6.81	1.54	6.81	1.45	7.93	1.5	7.8	1.54	9.84	1.65	8.17	1.93
Protactinium-231	-	2.6 U	0.447	3.04 U	0.539	1.73 U	0.996	1.56 U	0.681	1.32 U	0.605	1.49 U	0.39	1.55 U	0.278	2.77 U	0.111
Protactinium-234m	-	14.5 U	7.96	13.9 U	8.25	13.4 U	11.3	9.4 U	4.88	9.26 U	4.65	9.94 U	3.98	7.37 U	3.67	13.9 U	6.23
Radium-226	-	0.579	0.206	0.798	0.221	0.59	0.211	0.375	0.138	0.171	0.096	0.479	0.116	0.354	0.0949	0.329	0.153
Radium-228	-	0.818	0.293	1.38	0.333	0.532	0.187	0.308	0.149	0.269	0.146	0.338	0.149	0.391	0.139	0.486 U	0.216
Thallium-208	-	0.224	0.0853	0.33	0.106	0.212	0.0764	0.207	0.0681	0.208	0.0627	0.0732	0.0478	0.161	0.0539	0.132 U	0.102
Thorium-234	-	2.75 U	0.884	3.14 U	1.04	2.21 U	1.63	1.39 U	0.466	1.54 U	0.876	1.23 U	0.451	1.27 U	0.317	2.19 U	1.25
Uranium-235	-	0.516 U	0.298	0.559 U	0.206	0.457 U	0.0772	0.344 U	0.198	0.319 U	0.186	0.245 U	0.152	0.298 U	0.162	0.452 U	0.251
Uranium-238	-	2.75 U	0.884	3.14 U	1.04	2.21 U	1.63	1.39 U	0.466	1.54 U	0.876	1.23 U	0.451	1.27 U	0.317	2.19 U	1.25
Method A-01-R - Isotopic Thorium, Uranium, Combined Radium-226 & Radium-228 (AS) - (pCi/g)																	
Thorium-228	-	0.809	0.144	1.2	0.203	0.74	0.143	0.514	0.117	0.343	0.123	0.559	0.133	0.885	0.2030	0.797	0.2250
Thorium-230	-	0.113	0.213	0.0634 U	0.329	0.0702 U	0.262	0.0619 U	0.125	0.0743 U	0.157	0.0533	0.167	0.715	0.1800	0.908	0.2380
Thorium-232	-	0.689	0.159	0.969	0.187	0.65	0.149	0.323	0.11	0.38	0.144	0.47	0.117	0.681	0.1730	0.52	0.1770
Uranium-233/234	-	0.44	0.207	0.717	0.253	0.384	0.192	0.279	0.156	0.285	0.126	0.36	0.163	0.855	0.214	0.69	0.185
Uranium-235/236	-	0.952	0.0835	1.74	0.0562	1.24	0.0547	0.341	0.0277	0.487	0.038	0.564	0.0535	0.084 U	0.0294	0.0633 U	0.0397
Uranium-238	-	0.568	0.192	0.643	0.225	0.439	0.177	0.262	0.123	0.42	0.132	0.291	0.147	0.701	0.194	0.565	0.168
Thorium-230 + Thorium-232	≤ 5 + Background*	0.802	-	1.0324	-	0.7202	-	0.3849	-	0.4543	-	0.5233	-	1.396	-	1.428	-
Radium-226 + Radium-228	≤ 5 + Background*	1.397	0.358	2.178	0.4	1.122	0.282	0.683	0.203	0.44	0.175	0.817	0.189	0.745	0.168	0.738	0.265

Client Sample ID:	Site Specific	RXR10		RXR11				RXR12						RXR13			
Segment:		B		B		C		A		B		C		B		C	
Laboratory ID:	Soil Cleanup Objectives	200-29316-13		200-29316-11		200-29316-12		200-29316-8		200-29316-9		200-29316-10		200-29279-1		200-29279-2	
Sampling Date:		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/17/2015		8/13/2015		8/13/2015	
		Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)	Result	Total Uncertainty (2σ+/-)
Method 901.1 - GA-01-R - Radium-226 & Other Gamma Emitters (GS) - (pCi/g)																	
Actinium 228	-	0.277	0.126	0.522	0.204	0.396	0.133	0.514	0.237	1.03	0.298	1.07	0.29	0.714	0.331	1.01	0.305
Bismuth-212	-	0.761 U	0.431	1.09 U	0.625	0.679 U	0.381	1.48 U	0.895	1.73 U	1.08	1.15 U	0.826	1.81 U	1.09	1.25 U	0.795
Bismuth-214	-	0.266	0.09	0.51	0.161	0.324	0.12	0.239 U	0.155	0.929	0.285	0.671	0.225	1.02	0.33	1.01	0.258
Lead-210	-	1.52 U	0.964	1.49 U	1.03	1.62 U	0.971	2.27 U	1.72	2.75 U	2.08	2.79	2.12	3.49 U	2.03	4.24	0.263
Lead-212	-	0.22	0.0894	0.818	0.148	0.479	0.111	0.626	0.183	1.05	0.23	0.968	0.248	0.983	0.294	1.23	0.248
Lead-214	-	0.376	0.109	0.607	0.146	0.525	0.128	0.582	0.152	0.949	0.222	0.925	0.211	0.899	0.268	0.998	0.214
Potassium-40	-	5.35	1.3	10.4	1.55	5.1	1.08	8.02	1.93	11.7	2.54	7.73	2.08	8.77	2.48	10.9	2.05
Protactinium-231	-	1.77 U	0.0855	2.31 U	0.387	1.59 U	0.523	2.23 U	0.993	3.39 U	1.9	2.83 U	1.59	3.49 U	0.263	2.74 U	0.312
Protactinium-234m	-	12 U	0.188	10.9 U	5.67	8.9 U	4.96	14.6 U	7.44	19 U	27.8	21.1 U	4.86	20 U	11.3	14 U	7.54
Radium-226	-	0.266	0.09	0.51	0.161	0.324	0.12	0.239 U	0.155	0.929	0.285	0.671	0.225	1.02	0.339	1.01	0.258
Radium-228	-	0.277	0.126	0.522	0.204	0.396	0.133	0.514	0.237	1.03	0.298	1.07	0.29	0.714	0.331	1.01	0.305
Thallium-208	-	0.0912 U	0.0627	0.261	0.0826	0.152	0.0571	0.31	0.0982	0.514	0.154	0.4	0.148	0.434	0.13	0.41	0.109
Thorium-234	-	1.48 U	1.1	1.58 U	0.521	1.25 U	0.764	1.87 U	0.526	2.73 U	0.902	2.27 U	0.723	3.15 U	1.76	3.15 U	0.845
Uranium-235	-	0.333 U	2.38	0.422 U	0.248	0.268 U	0.139	0.485 U	0.274	0.5 U	0.245	0.492 U	0.276	0.842 U	0.247	0.619 U	0.219
Uranium-238	-	1.48 U	1.1	1.58 U	0.521	1.25 U	0.764	1.87 U	0.526	2.73 U	0.902	2.27 U	0.723	3.15 U	1.76	3.15 U	0.845
Method A-01-R - Isotopic Thorium, Uranium, Combined Radium-226 & Radium-228 (AS) - (pCi/g)																	
Thorium-228	-	0.708	0.182	0.917	0.214	0.718	0.183	1.27	0.275	1.03	0.247	0.975	0.226	1	0.194	1.31	0.181
Thorium-230	-	0.586	0.162	0.999	0.222	0.694	0.178	1	0.239	1.16	0.261	0.95	0.22	0.0886	0.199	0.0918	0.205
Thorium-232	-	0.454	0.141	0.763	0.19	0.673	0.174	0.951	0.232	0.959	0.235	0.864	0.207	0.828	0.196	1.24	0.181
Uranium-233/234	-	0.588	0.175	0.71	0.188	0.601	0.177	0.822	0.208	0.945	0.219	1.01	0.235	0.784	0.223	0.684	0.267
Uranium-235/236	-	0.065 U	0.0408	0.077 U	0.0478	0.0834 U	0.0485	0.0979 U	0.0497	0.0755	0.0641	0.043 U	0.0287	0.827	0.0694	0.875	0.0719
Uranium-238	-	0.473	0.156	0.811	0.203	0.793	0.205	0.864	0.214	1.01	0.226	0.943	0.224	0.810	0.199	0.703	0.257
Thorium-230 + Thorium-232	≤ 5 + Background*	1.040	-	1.762	-	1.367	-	1.951	-	2.119	-	1.814	-	0.917	-	1.332	-
Radium-226 + Radium-228	≤ 5 + Background*	0.543	0.155	1.032	0.266	0.720	0.179	0.655	0.283	1.959	0.412	1.741	0.367	1.734	0.474	2.020	0.399

Notes:
(1)USEPA Site Specific Soil Cleanup Objectives
* background is approximately 1 pCi/g for each isotope
U - The result is less than the sample detection limit.
Highlighted text denotes concentrations exceeding Site Specific SCO

Table 11
Soil Sample Analytical Data
Threshold Values

Glen Cove Creek Sediment Sampling

Client Sample ID:				RXR01			RXR02	RXR03	RXR04	RXR05			RXR07			RXR08			RXR09	
Segment:	Class A	Class B	Class C	A	B	C	A	C	A	A	B	C	A	B	C	A	B	C	B	C
Laboratory ID:				200-29316-17	200-29316-18	200-29316-19	200-29316-2	200-29316-7	200-29296-14	200-29296-2	200-29296-3	200-29296-4	200-29296-8	200-29296-9	200-29296-10	200-29296-11	200-29296-12	200-29296-13	200-29316-15	200-29316-16
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/17/2015	8/17/2015
Metals (mg/kg)																				
Arsenic	< 14 (8.2)	(8.2) 14 - 53	> 53	4.1	3.0 J	2.2 J	7.1	13.8	2.7 J	51.5	52.6	13.1	174	232	154	8.3	16.0	8.5	5.4	15.9
Cadmium	< 1.2	1.2 - 9.5	> 9.5	0.5 U	0.43 U	0.45 U	2.4	1.2	0.45 U	24.5	28	5.9	9.2	15.0	12.8	10.4	12.4	6.8	1.1	7.3
Copper*	< 33	33 -207 (270)	> 207 (270)	33.0	36.3	26.2	92.5	44.5	23.9	1,230	1,280	230	638	899	607	175	441	162	52	308
Lead	< 33 (47)	33 (47) - 166 (218)	> 166 (218)	19.5	18.1	11.5	57	45.1	13.6	621	820	147	534	1,070	600	101	156	96.2	40.4	294
Mercury+	< 0.17	0.17 - 1.6 (1.0)	> 1.6 (1.0)	0.21 F1	0.58	0.42	0.23	0.14	0.044	0.54	0.55	0.22	0.45	0.51	0.33	0.23	0.24	0.3	0.24	0.48
PAHs and Petroleum-Related Compounds (mg/kg)																				
Benzene	< 0.59	0.59 - 2.16	> 2.16	0.00046 U	0.00037 U	0.00026 U	0.00038 U	0.00041 U	0.00045 U	0.00074 U F2	0.0031 J	0.00058 U	0.0011 U	0.028 U	0.00062 U	0.00043 U*	0.00073 U	0.00051 U	0.0005 U	0.0011 J
Total BTEX*	< 0.96	0.96 - 5.9	> 5.9	0.00468	0.00316	0.00205	0.00441	0.00412	0.00424	0.0074	0.099	0.00557	0.1487	1.68	0.00228	0.0021	0.0021	0.0094	0.00661	0.0185
Total PAH[1]	< 4	4 - 35 (45)	> 35 (45)	0.327	0.020	0.000	1.393	0.369	0.223 J	12.95 J F1	14.785	4.343	7.791	5.705 J	5.015 J	2.465 J	2.967 J	2.092 J	15.298	35.45
Pesticides (mg/kg)																				
Sum of DDT + DDD + DDE+	< 0.003	0.003 - 0.03	> 0.03	0.00308 U	0.00281 U	0.00283 U	0.00289 U	0.00292 U	0.00295 U	0.0055 U	0.0055 U	0.00345 U	0.0044 U	0.0049 U	0.0041 U	0.00302 U	0.00342 U	0.0036 U	0.00368 U	0.0027 U
Mirex*+	< 0.0014	0.0014 - 0.014	> 0.014	0.0016 U	0.0014 U	0.0014 U	0.0015 U	0.0015 U	0.0016 U	0.0028 U	0.0028 U	0.0018 U	0.0022 U	0.0025 U	0.0021 U	0.0015 U	0.0017 U	0.0017 U	0.0018 U	0.0019 U
Chlordane*+	< 0.003	0.003 - 0.036	> 0.036	0.037 U	0.032 U	0.032 U	0.034 U	0.035 U	0.036 U	0.063 U	0.065 U	0.041 U	0.05 U	0.057 U	0.047 U	0.035 U	0.04 U	0.038 U	0.042 U	0.043 U
Dieldrin	< 0.11	0.11 - 0.48	> 0.48	0.0011 U	0.00095 U	0.00096 U	0.00099 U	0.001 U	0.0011 U	0.0019 U	0.0019 U	0.0012 U	0.0015 U	0.0017 U	0.0014 U	0.001 U	0.0012 U	0.0011 U	0.0012 U	0.0013 U
Chlorinated Hydrocarbons (mg/kg)																				
PCBs (sum of aroclors)[2]	< 0.1	0.1 - 1	> 1	0.010 J	0.0092 J	0.0053 J	0.0086 Jp	0.036	0.0159	0.84	0.510	0.400	0.94	3.000	0.700	0.208	0.520	0.900	0.12 p	0.18 p
2,3,7,8-TCDD*[3]	< 0.0000045	0.0000045 - 0.00005	> 0.00005	0.00000378	0.0000014	0.00000329	0.00000345	0.00000371	0.00000281	0.0000178	0.0000315	0.0000207	0.0000638	0.0000323	0.0000409	0.00000535	0.0000131	0.0000283	0.0000144	0.0000151

Client Sample ID:				RXR10	RXR11		RXR12			RXR13		RXR14			RXR15			RXR16		
Segment:	Class A	Class B	Class C	B	B	C	A	B	C	B	C	A	B	C	A	B	C	A	B	C
Laboratory ID:				200-29316-13	200-29316-11	200-29316-11	200-29316-8	200-29316-9	200-29316-10	200-29279-1	200-29279-2	200-25015-1	200-25015-2	200-25015-3	200-25015-4	20025015-5	200-25015-6	200-25015-7	200-25015-8	200-25015-9
Sampling Date:				8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/17/2015	8/13/2015	8/13/2015	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014	10/24/2014
Metals (mg/kg)																				
Arsenic	< 14 (8.2)	(8.2) 14 - 53	> 53	15.4	19.4	7.3	41.5	20.1	25.9	25.1	24.7	1.9	1.5 J	5	2.4	1.5	4.1	1.7	2.4	3.3
Cadmium	< 1.2	1.2 - 9.5	> 9.5	2.2	11.2	2.5	42.8	20.6	32.9	2.6	4.5	0.074 J	0.19 J	0.16 J	0.11 J	0.057 J	0.17 J	0.4 J	0.054 U	0.061 U
Copper*	< 33	33 -207 (270)	> 207 (270)	122	837	84.4	401	231	316	143	187	7.6	31.7	22.5	7	2.2	5.9	6.3	3.5	11.8
Lead	< 33 (47)	33 (47) - 166 (218)	> 166 (218)	97.8	241	77.2	351	217	297	155	233	27.1 B	6.3 B	7.3 B	16.4 B	5 B	5.5 B	15.8 B	3.1 B	9.5 B
Mercury+	< 0.17	0.17 - 1.6 (1.0)	> 1.6 (1.0)	0.28	0.48	0.18	0.32 F1	0.45	0.69	0.37	0.23	0.06 B	0.039 B	0.034 JB	0.025 JB	0.039 JB	0.011 JB	0.045 B	0.048 B	0.072 B
PAHs and Petroleum-Related Compounds (mg/kg)																				
Benzene	< 0.59	0.59 - 2.16	> 2.16	0.00045 U	0.00073 U	0.00045 U	0.0012 J	0.00038 U*	0.00046 J	0.00056 U	0.00056 U	0.00039 U	0.00031 U	0.00038 U	0.00042 U	0.00068 U*	0.00057 U	0.00059 U	0.00035 U	0.00056 U
Total BTEX*	< 0.96	0.96 - 5.9	> 5.9	0.00046	0.002	0.0013	0.01238	0.0021	0.00696	0.00897	0.00682	0.001068 U	0.000845 U	0.0003 JB	0.00024 JB	0.00047 JB	0.00041 JB	0.00027 JB	0.000951 U	0.00045 J
Total PAH[1]	< 4	4 - 35 (45)	> 35 (45)	10.324	24.781	12.439	26.037	30.108	34.318	174.84	1,054.13	10.208	0.349 U	0.353 U	0.353 U	0.397 U	0.397 U	0.478	0.321 U	0.385 U
Pesticides (mg/kg)																				
Sum of DDT + DDD + DDE+	< 0.003	0.003 - 0.03	> 0.03	0.00357 U	0.004 U	0.00302 U	0.0044 U	0.00316 U	0.004 U	0.004 U	0.0042 U	0.0011 U	0.00107 U	0.00107 U	0.00107 U	0.00115 U	0.00122 U	0.00107 U	0.001 U	0.00119 U
Mirex*+	< 0.0014	0.0014 - 0.014	> 0.014	0.0018 U	0.002 U	0.0015 U	0.0022 U	0.0016 U	0.002 U	0.002 U	0.0021 U	0.0038 U	0.0037 U	0.0037 U	0.0037 U	0.004 U	0.0042 U	0.0037 U	0.0035 U	0.0042 U
Chlordane*+	< 0.003	0.003 - 0.036	> 0.036	0.042 U	0.046 U	0.035 U	0.051 U	0.037 U	0.046 U	0.046 U	0.049 U	0.00075 U	0.00073 U	0.00074 U	0.00074 U	0.00079 U	0.00084 U	0.0033 J	0.00069 U	0.00082 U
Dieldrin	< 0.11	0.11 - 0.48	> 0.48	0.0012 U	0.0014 U	0.001 U	0.0015 U	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.00042 U	0.00042 U	0.00042 U	0.00042 U	0.00045 U	0.00048 U	0.00041 U	0.00039 U	0.00047 U
Chlorinated Hydrocarbons (mg/kg)																				
PCBs (sum of aroclors)[2]	< 0.1	0.1 - 1	> 1	1.01	1.28	0.053	0.63	0.92	1.49	0.2	0.184	0.0216 U	0.0214 U	0.0214 U	0.0208 U	0.0229 U	0.0242 U	0.021 U	0.0199 U	0.0236 U
2,3,7,8-TCDD*[3]	< 0.0000045	0.0000045 - 0.00005	> 0.00005	0.00000741	0.000011	0.00000705	0.00000711	0.00000581	0.0000142	0.0000172	0.000034	0.00000451	0.00000936	0.00000262	0.00000776	0.00000165	0.00000668	0.00000532	0.0000157	0.00000925

Notes:

+ Threshold values lower than the Method Detection Limit are superseded by the Method Detection Limit. (See Table 1)

* Indicates case-specific parameter (see Chapter II, Section A).

[1] For Sum of PAH, see Appendix E.

[2] For the sum of the 22 PCB congeners required by the USACE NYD or EPA Region 2, the sum must be multiplied by two to determine the total PCB concentration.

[3] TEQ calculation as per NATO - 1998 method (see Appendix D)

Note: The proposed list of analytes can be augmented with additional site specific parameters of concern. Any additional analytes suggested will require Division approved sediment quality threshold values for the A, B, and C classifications.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The "J" data may be biased high or low or the direction of the bias may be indeterminable.

U - Indicates the analyte was analyzed for but not detected above the method detection limit (MDL).

* - Internal standard response or retention time was outside limits or LCS/LCSD failures in the QC

B - Compound was found in the blank and sample.

F1 - Duplicate RPD exceeds the control limit

p - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

ND - Not detected above laboratory method detection limits.

Exceeds Class A Threshold Values, Is Within Class B Threshold Values

Exceeds Class B Threshold Values

PWGC
Strategic Environmental Engineering Solutions

APPENDIX A

SEDIMENT SAMPLING PLAN

Sediment Sampling Plan for Proposed Marina Dredging

Glen Cove Creek Mixed-Used Waterfront Redevelopment Project
City of Glen Cove
Nassau County, NY

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Date of Preparation: June 24, 2014
Revised: September 24, 2014
October 20, 2014
May 20, 2015
July 9, 2015

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1 – Core depths for upland sampling previously conducted in proposed marina and wetland areas.
2 – Core depths for dredge sediment sampling at three marinas proposed in Glen Cove Creek.
3 – Procedures and methods for sediment sample testing.

1 INTRODUCTION

The Glen Cove Creek Mixed-Use Waterfront Redevelopment project has undergone extensive environmental review pursuant to the State Environmental Quality Review Act (SEQRA). A Draft Environmental Impact Statement (EIS) and Final EIS were prepared and underwent extensive agency and public review. The FEIS was accepted by the City of Glen Cove in July 2011. The City issued a Statement of Findings in December 2011. The FEIS, DEIS and other project documents are available on the City of Glen Cove website (http://www.glencove-li.us/index.php/project-updates/27-waterfront-project). The Statement of Findings is available upon request.

For the purposes of this sediment sampling plan for dredging activities, discussion of the site shall be limited to the conditions within Glen Cove Creek subject to dredging activities for the proposed marinas.

1.1 Project Location

The Glen Cove Creek Mixed-Use Waterfront Redevelopment project is located along the north shore of Glen Cove Creek in the City of Glen Cove, Nassau County, NY (Figure 1). The site is bounded on the west by Hempstead Harbor (Mosquito Cove), on the east by Charles Street, on the north by Garvies Point Preserve and Janet Lane, and on the south by Glen Cove Creek. A 2011 illustration of the entire Glen Cove Creek Mixed-Use Waterfront Redevelopment Project is provided in Figure 2, the PUD Master Development Plan as contained in the approved FEIS.

Figure 1. Location map showing the Glen Cove Creek Mixed-Use Waterfront Redevelopment Project site.

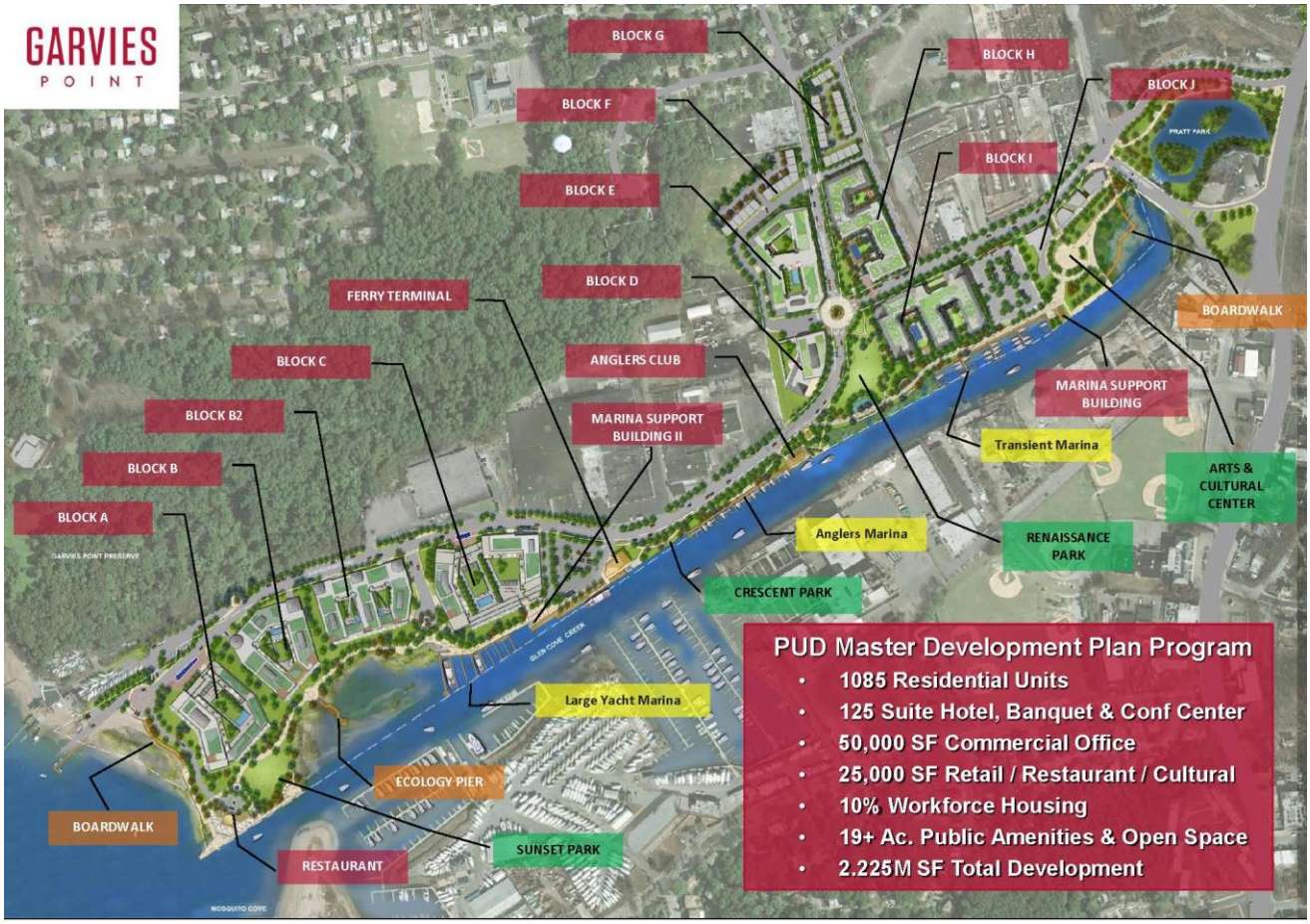


Figure 2. Project Site depicted in the illustration of the approved PUD Master Development Plan (FEIS, 2011).

1.2 Site History

The Glen Cove Creek area had become a center of industry by the latter half of the 19th Century. Numerous types of industrial companies used the Creek for transportation, including, the famed Duryea Corn Starch Manufacturing Company on the south side of the Creek. Heavy industrial usage of the area continued throughout the 19th and early 20th centuries. However, as trucking began to become more significant for the movement of goods in the 1940s, the area around Glen Cove Creek lost its competitive advantage. Industry thereafter experienced a slow decline up to the early 1990s. By that time, the north side of Glen Cove Creek was heavily characterized by vacant land. As a result of its industrial legacy, most of the abandoned industrial sites contained hazardous wastes. The project site consists of multiple properties having known or potential environmental impacts, summarized as follows (Figure 3):

- Li Tungsten (Federal Superfund & New York State {NYS}Superfund Site)
- Captain's Cove (NYS Superfund Site including a delisted portion)
- Angler's Club Site
- Gladsky Site (ERP site)
- City of Glen Cove Sewage Pumping Station Site
- Doxey Site (NYS Spill Program)
- Gateway Properties (consisting of seven tax lots, including, Windsor Fuel and Nassau Ready-mix, Brilliant Electric and Air, and an office building)

Figure 3. Environmentally impacted sites within the Glen Cove Creek Project Area.
Prepared By: Saccardi & Schiff, Inc.
Sources: NYS GIS Clearinghouse and PWGC Strategy Environmental and Engineering Solutions.

A number of the properties within the proposed development have undergone remediation under, and are subject to, ongoing United States Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC) environmental regulatory programs. The agencies identified remedial or cleanup goals for the specific contaminant of concern, affected environmental media (e.g., soil, sediment, surface water, ground water and/or soil vapor), and proposed future land use for each property in question. Other properties within the proposed development have been subject to indirect (Phase I Environmental Site Assessment {ESA}) and/or direct (Phase II ESA) investigation, which have identified potential or known environmental conditions.

Ninety percent of the proposed development area is occupied by the Li Tungsten (LT) and Captain's Cove (CC) remediation sites. EPA conducted remediation at the LT site, which consists of various parcels, under the federal Superfund Program. The goal of the cleanup was to restore the overall LT site to a commercial use standard. EPA subsequently deemed the cleanup met a standard sufficient for residential use for all but one parcel of the property, Parcel A (EPA, 2005 Explanation of Significant Differences). EPA requires that engineering controls be installed on Parcel A for it to meet restricted residential use standards.

The CC site was remediated under the NYS Inactive Hazardous Waste Remediation Program. NYSDEC agreed that the Record of Decision (ROD) could be modified to allow restricted residential use at CC upon the use of engineering and institutional controls, and the filing of an Environmental Easement. The NYSDEC has approved Site Management Plans (SMP) for both parts of CC.

The eastern portion of the CC site is leased to the City of Glen Cove (City) for use as a ferry terminal. The City has constructed the ferry terminal foundation, parking lot and bulkhead/dock improvements. During construction, the Ferry Terminal SMP was used to guide soil management activities. As the ferry terminal bulkhead had to be reconstructed and Glen Cove Creek had to be dredged to accommodate ferry vessels, the Ferry Terminal SMP includes approved procedures for testing the area proposed for dredging; these procedures have been used in preparation of this Sediment Sampling Plan for the three new marinas in the approved Glen Isle Site Plan.

1.3 Tidal Wetlands

The majority of the study area, as well as a significant portion of Glen Cove Creek, exhibits characteristics typical of intense commercial and industrial use occurring over extended historical time periods. Glen Cove Creek consists of a 1.1 mile long navigational channel extending from the head of Mosquito Cove to Charles Street. The navigational channel represents extensive man-made alterations begun in 1925 by the United States Army Corps of Engineers (USACE) to the tidal estuary.

Historical dredging and shoreline hardening structures in the area have resulted in the elimination of all natural shoreline areas with the exception of the tidal wetlands located at Captain's Cove and at the Garvies Point Beach (Figure 4). These areas contain remnants of the natural shoreline assemblages formerly common within the Hempstead Harbor estuary.

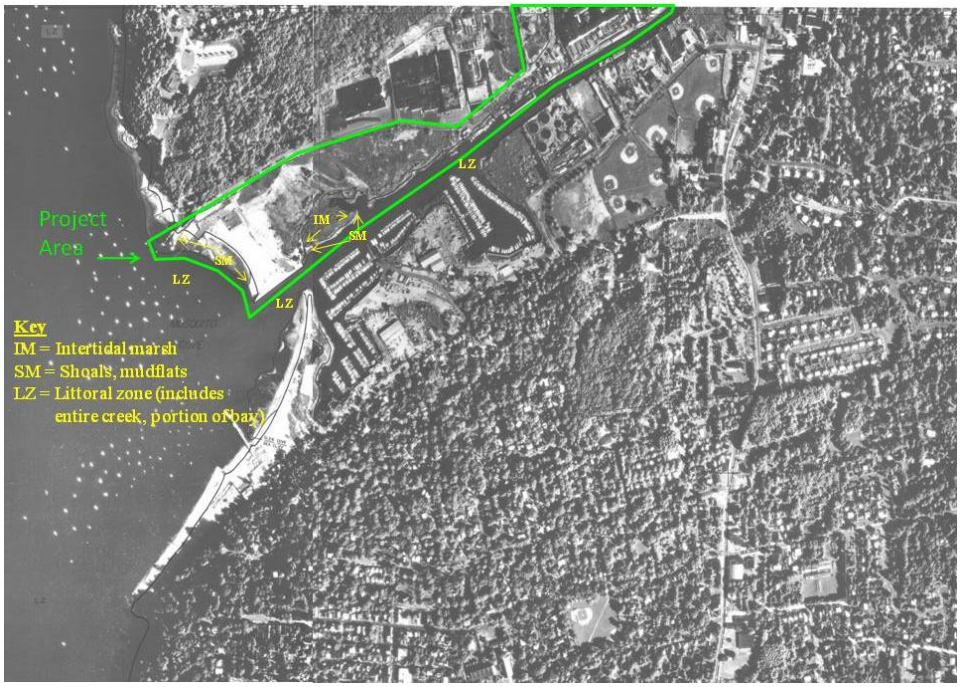


Figure 4. Portions of NYSDEC tidal wetlands maps #612-522 and #614-522 (NYSDEC, 1974).

1.3.1 Garvies Point Beach

Garvies Point Beach is an open, sandy beach is located at the terminus of Garvies Point Road. The beach is sparsely vegetated with only a narrow band of pioneer and weedy plant species located in the upper portion of the beach landward of the high water line. Below the high water line, the vegetation consists of patches of smooth cord grass (*Spartina alterniflora*) interspersed within large areas of open shoals and mudflats. The tidal wetlands at Garvies Point Beach are classified as Coastal Shoals, Bars and Flats

(SM) by the NYSDEC. Approximately 380 linear feet of shoals, mudflats and intertidal wetlands are present at Garvies Point Beach.

Intertidal sediments at Garvies Point Beach consist of sand with abundant gravel and shells, as characterized by Land Use Ecological Services during invertebrate sampling on May 12, 2009. Anaerobic conditions were observed within 1-2" of the sediment surface at three sampling locations at Garvies Point Beach, as expected in permanently inundated wetland sediments.

1.3.2 Captain's Cove

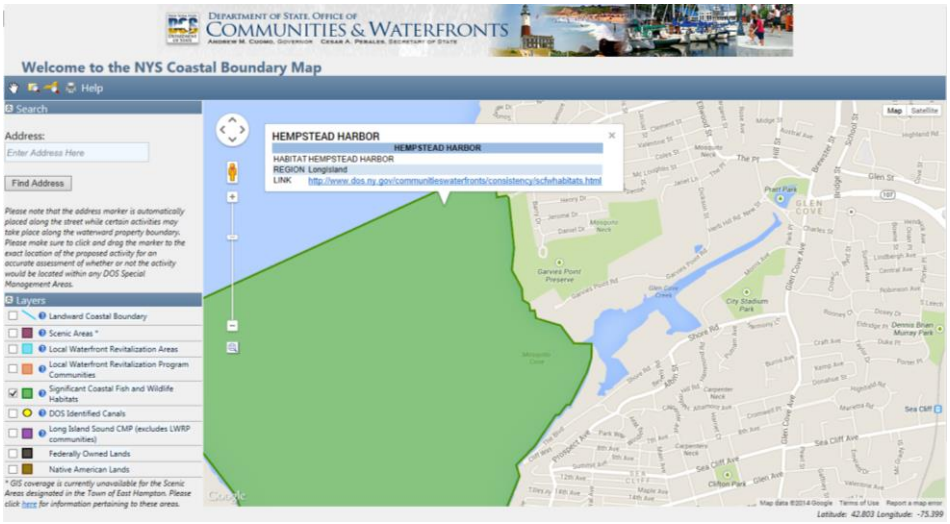
The area known locally as Captain's Cove has intertidal and high marsh habitats, dominated by smooth cord grass (*Spartina alterniflora*), common reed (*Phragmites australis*), and marsh elder (*Iva frutescens*), and open areas of shoals and mudflats. The steeply sloped transition zone located landward of the intertidal and high marshes in Captain's Cove contains a variety of invasive pioneer species such as common reed (*Phragmites australis*), tree of heaven (*Ailanthus altissima*), mugwort (*Artemisia vulgaris*), and honey locust (*Gleditsia triacanthas*). Much of this transition slope contains large amounts of concrete and debris previously deposited to harden and stabilize the slope.

Intertidal sediments at Captain's Cove were characterized by Land Use Ecological Services on May 12, 2009 during invertebrate sampling. Sediments consist of silty sands with anaerobic conditions within 1-2" of the surface. Adjacent to Captain's Cove, in the area of the proposed Small Vessel Marina, the sediments were coarser and consisted of sands with some gravel and shells and anaerobic conditions within 5" of the sediment surface.

Tidal wetlands within Captain's Cove are classified as: (1) Intertidal Marsh (IM) and (2) Coastal Shoals, Bars and Flats (SM) by the NYSDEC. In total, approximately 1,030 linear feet of intertidal wetlands and shoals/mudflats are present in Captain's Cove.

1.4 Significant Coastal Fish & Wildlife Habitat

Glen Cove Creek is not within a Significant Coastal Fish & Wildlife Habitat (SCFWH) as identified by NYS. Hempstead Harbor and Mosquito Cove are within the Hempstead Harbor SCFWH as shown on Figure 5.



http://appext20.dos.ny.gov/coastal_map_public/map.aspx

Figure 5. NYSDOS Significant Coastal Fish & Wildlife Habitat Map.

1.5 Essential Fish Habitat (EFH)

Hempstead Harbor has been identified as an EFH for one or more life cycles of 15 species of finfish by National Marine Fisheries Service (NMFS). In accordance with the 1996 amendments to the Magnuson-Stevens Fishery Conservation and Management Act, an EFH Assessment was included in the FEIS accepted by the City of Glen Cove in July 2011.

1.6 Stormwater Discharge

Under existing conditions, stormwater for this site is handled by four existing drainage pipe systems located within Garvies Point Road. Three (3) of these discharge (outfall) pipes drain directly into Glen Cove Creek without any treatment and one (1) discharges directly to Hempstead Harbor, just south of the existing boat ramp, also without any treatment. Several off-site areas drain onto or through the project site including the Garvies Point Preserve, industrial development on the north side of Garvies Point Road and the industrial/commercial development located on the north side of Herb Hill Road.

2 DESCRIPTION OF PROPOSED DREDGING

The following sections describe in-water dredging and associated activities for the three marinas proposed in the Glen Cove Creek Mixed Use Waterfront Redevelopment Project. More detailed information on the entire waterfront redevelopment project is contained in the EIS prepared for the project and accepted by the City of Glen Cove in 2011 (http://www.glencove-li.us/index.php/project-updates/27-waterfront-project).

Information on the proposed dredging is based on site plans last revised in December 2014 and contained in Appendix A.

2.1 Small Vessel Marina

On the east side of Captain's Cove, within the 290' of waterfront bulkhead containing the existing "Regina Maris" display, the applicants are proposing to construct a small vessel marina. Construction of the small vessel marina will incorporate the relocation of existing intertidal wetlands, stabilization of the wetland area to the west of the docking facility, reconstruction of the existing bulkhead, dredging, and construction of docks.

Approximately 32,085 square feet within the small vessel marina area will be dredged to provide -6' depth at mean low water (MLW). An estimated 5,052 cubic yards of spoil will be removed and disposed of at an approved upland site.

2.2 Angler's Club

The former "Angler's Club" facility will be relocated and reconstructed to provide small boat transient dockage, allowing access to the revitalized waterfront from adjoining waterways. Existing Angler's Club facilities, including the club building and docks, will be relocated approximately 335' east of the current location. Construction activities within new Angler's Club area will include dredging, removal of the existing 795' of bulkhead, reconstruction of new bulkhead 0-25' landward of existing, and reconstruction of the docking facilities.

The new Angler's Club location will be excavated (upland) and dredged (creek) to a depth of -6' MLW. Approximately 22,789 square feet shall be dredged/excavated for the new Angler's Club. An estimated 3,587 cubic yards of spoil will be disposed of at an approved upland site.

2.3 Low-Sill Wetlands Restoration

Construction activities proposed for Renaissance Park, east of the relocated Angler's Club, include upland excavation, removal of the existing steel bulkhead, construction of a low sill bulkhead, construction of a bulkhead at elevation 11' NAVD, and intertidal marsh creation.

Creation of the 20,726 square-foot intertidal marsh area will require excavation of approximately 13,865 cubic yards of upland material. Excavation shall be done prior to removal of the existing steel bulkhead, with sediment disposal at an approved upland site.

2.4 Transient Marina

East of the low sill bulkhead area at Renaissance Park, a transient marina will be constructed, including dredging/excavation and bulkhead removal. Prior to bulkhead removal, the proposed marina shall be excavated (upland) and dredged (creek) to a depth of -6' MLW. Approximately 10,052 square feet of creek shall be dredged and 33,428 square feet of upland shall be excavated. An estimated 12,106 cubic yards of sediments (1,582 cy dredging, 10,524 cy upland excavation) will be disposed of at an approved upland site.

3 SEQUENCE OF SAMPLING, APPROVALS AND CONSTRUCTION

The following outlines a sequencing summary for the Glen Cove Creek Waterfront Redevelopment Project through to construction activities:

1) Preparation of the Sediment Sampling Plan, based on December 2014 Waterfront Redevelopment Project Site Plans. Sediment Sampling Plan shall be reviewed and approved by NYSDEC [Bureau of Habitat – Tidal Wetlands (BOH-TW), Division of Environmental Permits (DEP), Division of Environmental Remediation (DER), and Division of Materials Management DMM)] and USEPA prior to conducting the sampling.
2) Sampling of sediments proposed for excavation or dredging with the Waterfront Redevelopment Project. Results to be submitted to BOH-TW, DEP, DER, DMM, and USEPA for review.
3) Dredging and Excavation Work Plan to be prepared based on sediment sampling results. Work Plan to include construction sequence, methodology for dredging/excavation, material handling/storage, dewatering (as necessary), and disposal. Plan shall cross reference the Waterfront Redevelopment Site Plans as applicable.
4) Waterfront Redevelopment Site Plans to be updated to include reference to the Dredging & Excavation Work Plan for construction sequence, methodology, material handling/storage, and disposal.

4 SEDIMENT SAMPLING PLAN FOR PROPOSED MARINA DREDGING

This sediment sampling plan has been prepared for the proposed dredging within Glen Cove Creek associated with construction of the Small Vessel Marina, Angler's Club, Low-Sill Wetlands, and

Transient Marina as described in Section 2. This plan is based on the information contained on the December 2014 Site Plans (Appendix A), inclusive of dredge footprint, depth, and material quantity.

Sampling of upland sediments associated with the Angler's Club marina, Low-Sill Wetland and Transient Marina areas has been previously conducted in accordance with the "Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan" (PW Grosser, December 2013). Sample locations are depicted on Figure 6, and core depths and proposed excavation depths are summarized in Table 1. Results of the prior upland sampling effort shall be compiled and submitted in a complete package with results from the proposed sampling outlined in this plan, for review by regulatory agencies. Per discussion with NYSDEC Bureau of Habitat – Tidal Wetlands (BOH-TW) staff, additional sampling of the Low-Sill Wetland and Transient Marina areas, currently beyond Article 25 (tidal wetlands) jurisdiction, will not be required if excavation of upland sediments to below the proposed low sill wetland / marina elevations is performed prior to bulkhead removal. This guidance is based on the premise that excavation to below these elevations prior to bulkhead removal will prevent any potentially contaminated sediments from entering the creek.

Table 1. Core depths for upland sampling previously conducted in proposed marina and wetland areas.

TOGS Boring	Surface Elevation (ft. asl = NAVD)	Excavation Depth (ft.)	Boring Depth (ft.)	Location
LT-T-001	7.63		17	(No excavation)
LT-T-002	7.52	16.52	16.5	Transient Marina
LT-T-003	8.81	17.81	18	Transient Marina
LT-T-004	8.67	17.67	18	Transient Marina
LT-T-005	10.24	19.24	19	Transient Marina
LT-T-006	8.51	17.51	15	Transient Marina
LT-T-007	10.05	19.05	19	Transient Marina
LT-T-008	9.30	18.3	18	Transient Marina
LT-T-009	11.51	20.51	20	Transient Marina
LT-T-010	10.01	10.01	10	Low-Sill Bulkhead
LT-T-011	9.30	9.3	9.5	Low-Sill Bulkhead
LT-T-012	9.30	9.3	9.5	Low-Sill Bulkhead

Sampling of upland sediments for the Upper Reach of Glen Cove Creek wetland restoration area will be conducted following acquisition of the site by the applicant. Upland samples for the Upper Reach of Glen Cove Creek wetland restoration area will be tested for parameters listed in TOGS 5.1.9 and 6NYCRR Part 375 (Appendix C).

4.1 Radiation Monitoring

Prior sediment sampling efforts associated with remediation of the Li Tungsten and Captain's Cove sites have documented elevated radiation levels in the vicinity of the proposed marinas. An extensive dredging project was completed as described in the Li Tungsten OU-IV Final Remedial Action Report (USACE, October 2007), to remove all sediments with gamma readings greater than 2x's background to a depth of 1 foot below the navigational dredging depth of 10 feet below MLW. Soils excavated/dredged from the Small Vessel Marina, Angler's Club and Transient Marina sites will be

monitored for radiation to assess the potential for radiation contamination. If necessary, additional radiation monitoring and/or handling will be included in the Dredging and Excavation Work Plan.

Safety and Ecology Corporation (SEC) shall perform radiation monitoring of the sediment samples collected under this plan. SEC is licensed through the Commonwealth of Kentucky and the Nuclear Regulatory Agency Agreement States Program. SEC has been issued Radioactive Materials License number 201-650-90 for decontamination, demolition or removal, radiological survey, sampling, processing, packaging and transport for disposal or transfer to facilities authorized to store, process or dispose of radioactive materials.

Radiation screening will be conducted using a count-rate meter and scaler, such as a Ludlum™ Model 2221 equipped with a 2-inch by 2-inch sodium iodide (NaI) detector. The rate meter/scaler will be calibrated in accordance with manufacturer's specifications, using a range of NIST source materials standards (or traceable to NIST standards). A range of response configurations will be used during the calibration process. Meter response will be checked throughout the day using the source provided with the meter; these checks will be recorded in a log book. Calibration records and response checks will be kept on site during sampling, and will be included in the Sediment Sampling Results report.

An ambient gamma background value will be established within the boat prior to beginning sediment sampling activities in the creek. This ambient background value is used during scanning of soil cores to provide a reference point for determining whether the materials appear to be impacted with radioactivity.

Radiation screening shall be performed on each sample collected as part of this Sediment Sampling Plan. The monitoring protocol described below was designed to effectively detect gamma radiation within soil cores.

- Prior to performing soil borings, 10-mil polyethylene sheeting, sufficiently large to hold the anticipated number of soil cores will be laid on the ground in the area where the soil borings will be performed.
- Once cores are collected, each sleeve of soil/sediment will be wiped down upon removal from casing and verified to be free of removable radioactivity by using a calibrated Ludlum Model 12 rate-meter with 44-9 pancake probe to count the wipes. At a minimum, removable activity will satisfy Regulatory Guide 1.86 unrestricted use criteria; however, prior to handling and processing, cores will be decontaminated until removable activity is reduced to background levels.
- Each core will then be scanned using the Ludlum™ Model 2221 count-rate meter and scaler (or equivalent) equipped with a Ludlum™ Model 44-10 (2" x 2") sodium iodide (NaI) detector. Screening will be performed by holding the detector approximately 1 inch above the soil surface and moving it over the surface being scanned at a rate not to exceed 0.5 meters per second (m/s). If the count rates exceed two times the background levels, the sample core information and location of the high count rate within the core (i.e. segment, as identified in Section 4.2) will be recorded in the field log book with the maximum and minimum number of count rates observed (rounded to the nearest 100 cpm).

Creek Monitoring Procedures

As specified in the Dredging & Excavation Work Plan prepared for the City of Glen Cove Ferry Terminal Project (Apex Companies, July 2010) each sediment core associated with the creek bottom sediment sampling program will be field screened as described above utilizing either a Geiger-Mueller frisker (i.e., Ludlum^{TM} 44-9 or equivalent) or a Ludlum^{TM} 44-10 or equivalent sodium iodide (NaI) detector, depending on background radiation levels. If a Model 44-9 detector is used, the screening limit is 100 counts per minute (cpm) above background; background is expected to be approximately 50 cpm or less on a 44-9 detector. If the NaI detector is used, the screening limit is 15,000 cpm above background. Background on the NaI detector is expected to be approximately 7,500 cpm or less.

Any creek sediment sampling cores exceeding the applicable screening limits will be segregated for additional testing and or disposal. Subsequent testing will include gamma spectroscopy at a minimum; additionally, a minimum of 10% of samples will be analyzed for isotopic radium and isotopic thorium via alpha spectroscopy. Analyses will be performed at a laboratory licensed to receive radioactive materials.

At the end of each day and prior to coffee or lunch breaks, surveys will be performed by SEC technicians to ensure personnel and equipment are free of radioactive contamination.

4.2 Sampling Methodology

Sampling of the proposed dredge areas shall be conducted in accordance with guidance provided in/by the following:

- Technical & Operational Guidance Series (TOGS) 5.1.9: In-Water and Riparian Management of Sediment and Dredged Material (NYSDEC, 2004)
- 6NYCRR Part 375: Environmental Remediation Programs (NYSDEC , 2006)
- Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan (PW Grosser, December 2013) [*Exceptions: XRF meter will not be used and sediment samples for metals analysis will be collected as specified depths*.]
- Dredging / Excavation Work Plan, Glen Cove Ferry Terminal (Apex Companies, July 2010)
- Consultation with NYSDEC's Division of Materials Management (P. Hourigan), Bureau of Marine Habitat Protection, and Division of Permits

Sampling will be conducted at each of the three proposed marina dredge areas: Small Vessel Marina, Angler's Club, and Transient Marina. Soil samples will serve to evaluate dredge spoil sediments for evidence of contaminants, and to characterize fill for potential re-use or disposal at an approved upland site or landfill.

Core samples shall be collected at sixteen (16) soil boring locations: Small Vessel Marina (1-4), Angler's Club (5-8, 14-16), and Transient Marina (9-13) [Figure 6 - Sediment Sample Locations]. The number of sample sites was selected based on the sampling requirements for proposed dredging contained in the Glen Cove Ferry Terminal Site Management Plan (Dvirka & Bartilucci, 2009).

Sediment cores shall be collected using a vessel-mounted vibra-core sampling rig or gravity corer down to one foot below dredge depth, for a total core depth of 9-11 feet for the Small Vessel Marina, 0-3 feet for the Angler's Club creek dredging, 14-16 feet for the Angler's Club upland excavation, and 1-3 feet for the Transient Marina (Table 2). Each core will be logged for soil characteristics in the field by a geologist, using the United States Geological Survey (USGS) Unified Soil Classification system. All sample collections will follow established protocols and procedures consistent with the sediment sampling guidance provided in Appendix C of NYSDEC TOGS 5.1.9 (*In-Water and Riparian Management of Sediment and Dredge Material*). Guidance provided in TOGS 5.1.9 Appendix C includes quality assurance and quality control blind duplicate, equipment rinseate blank, and matrix spike duplicate sample collection and documentation (Table C-1).

Table 2. Core depths for dredge and excavation sediment samples at three marinas proposed in Glen Cove Creek.

Sample ID	Location	Bottom Elevation re: NGVD (FT @ NGVD)	Bottom Elevation re: MLW (FT @ MLW)*	Core Depths (FT)			
				Segment A (Dredge Material)	Segment B (0-6" below dredge depth)	Segment C (6-12" below dredge depth)	Total Core Depth (to nearest FT)
1	Small Vessel Marina	-0.8	2.0	-9.0	-0.5	-0.5	-10
2	Small Vessel Marina	-1.8	1.0	-8.0	-0.5	-0.5	-9
3	Small Vessel Marina	-0.1	2.7	-9.7	-0.5	-0.5	-11
4	Small Vessel Marina	-2.8	0.0	-7.0	-0.5	-0.5	-8
5	Angler's Club	-9.8	-7.0	1.0	-0.5	-0.5	0
6	Angler's Club	-7.0	-4.2	-1.8	-0.5	-0.5	-3
7	Angler's Club	-7.5	-4.7	-1.3	-0.5	-0.5	-2
8	Angler's Club	-7.8	-5.0	-1.0	-0.5	-0.5	-2
9	Transient Marina**	-11.8	-9.0	0.0	-0.5	-0.5	-1
10	Transient Marina**	-10.8	-8.0	0.0	-0.5	-0.5	-1
11	Transient Marina	-8.7	-5.9	-0.1	-0.5	-0.5	-1
12	Transient Marina	-6.6	-3.8	-2.2	-0.5	-0.5	-3
13	Transient Marina**	-8.8	-6.0	0.0	-0.5	-0.5	-1
14	Angler's Club Upland	4.2	7.0	-13.0	-0.5	-0.5	-14
15	Angler's Club Upland	6.3	9.1	-15.1	-0.5	-0.5	-16
16	Angler's Club Upland	5.7	8.5	-14.5	-0.5	-0.5	-16

* Bottom elevation at MLW based on bathymetric survey performed by Advanced American Engineering, reference to MLW, in June 2014.

** Dredging not required based on existing depths. However, exposed bottom and below bottom sediments will be collected and analyzed.

Sample containers will be supplied by the testing laboratory. The containers will be laboratory cleaned, pre-preserved and sealed with the appropriate documentation. All sample containers will be labeled using a permanent marker to indicate the date, time, sample location, and sample identification number. This information will also be recorded in a field log book and on a chain of custody form that will follow the samples. Once each sample container is filled, capped and labeled, it will be appropriately packaged to prevent breakage and placed in an ice-filled insulated cooler, maintained at a temperature of 4° C, until the samples are delivered to the laboratory within 24 hours of collection. Sample numbering shall be formatted as follows:

Each sample segment will be given a sample test number according to the format
FC /LL/CS/SS-EE/ DDMMYYYY, where:

FC = RXR (facility code)
LL = Location according to ID on Sediment Sampling Plan (e.g. 1-13). For VOC grab sample, add GS after ID.
CS = Core Segment: (A) material to be dredged, (B) 0" to 6" below post-dredging bottom, (C) 6" to 12" below post-dredging bottom
SS–EE = sample depth interval (in inches) from which sample was collected (SS = start depth, EE = end depth)
DDMMYYYY = day, month and year of the sample collection

Each soil and sediment sample core will be inspected for visibly distinct layers. If distinct layers are apparent, they will be analyzed separately. However, if the sediment in the core is reasonably consistent, the core will be divided into three sections for analysis. The top section (Segment A), comprised of the surface to depth material, represents an analysis of the material to be dredged. The second section (Segment B), comprised of the first six inches of material below the dredging depth, represents the bottom sediment that will be exposed after the dredging is completed. The third section (Segment C), comprised of the six inches of material below Segment B, represents an alternative bottom which may be necessary if Segment B proves to be contaminated. Based on the site history and documented contamination of upland areas, as well as the short hold times for some contaminants that must be tested, NYSDEC is requiring that Segment C be analyzed at the same time as Segments A and B to determine if increasing the dredging depth will provide a reduction in exposed contaminant levels.

Once Segment boundaries are established, a grab sample shall be taken from each Segment of the core. These grab samples, which are to be used for VOC analysis in the event that such analysis is required, shall be preserved, undisturbed, with no headspace in the jar, to avoid volatilization of chemical compounds. After the VOC grab sample is taken, each Segment (A, B, C) shall be composited, and sufficient material from each composited Segment shall be taken for analysis as outlined in Section 4.3 below. For each core, this sampling procedure yields three grab samples and three corresponding composite samples.

4.3 Quality Assurance and Quality Control

Field and laboratory QA/QC procedures will be consistent with the requirements outlined in Appendix C of the NYSDEC *In-Water and Riparian Management of Sediment and Dredged Material* (TOGS 5.1.9). TOGS 5.1.9 Appendix C includes quality assurance and quality control blind duplicate, equipment rinseate blank, and matrix spike duplicate sample collection and documentation. Testing for samples will be conducted in accordance with the following procedures and methods (Table 3):

Table 3. Procedures and methods for sediment sample testing.

Contaminants	USEPA SW-846 Method
Pesticides (Including Mirex)	8081A
Herbicide (Silvex)	8151
Total Aroclors of PCB's	8082
Volatile Organics (VOC's)	8260B
Semi-Volatile Organics (SVOC's)	8270C
Metals	6010B
Hexavalent Chromium	7196A
Cyanide	9012A
Total Organic Carbon (TOC)	9060A
Dioxin	1613B
Radiological	EPA Method 901.1 (gamma spectroscopy) DOE EML Method HASL-300 (alpha spectroscopy)

The following information shall be collected and documented on an appropriate data sheet and submitted with the test results: field conditions, weather conditions, name of sampler, sample designation, collection method, soil description, photographs, and any pertinent information that may bear influence on sample analysis.

Samples shall remain in the custody of the sampler from the time the samples are taken through the delivery to the testing laboratory. Custody will be transferred in compliance with all applicable standards. Care will be taken to ensure that all samples are uniquely identified, vital sample characteristics are preserved, correct samples are tested and traceable to their source, samples are protected from loss and/or damage, and sample information is recorded on a sample label that corresponds to a chain-of-custody form. A chain-of-custody form shall be completed for each sample in order to provide an accurate record that traces the possession and handling of each sample from the time of collection through performance of the analyses. The form shall contain the following information, at a minimum: sample test number (see above), date and time of collection, type of preservation (if applicable) and sampler's name.

4.4 Sample Analysis

Cores shall be photographed and each of the Segment A, B and C composite samples (see Section 4.1 above) shall be analyzed for sediment grain size and Total Organic Carbon (TOC). Grain size distribution of each sample will be determined by a sieve analysis performed in accordance with ASTM C136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. TOC of each sample will be determined in accordance with EPA Method 9060A.

If the grain size and TOC analyses determine that the composition of any sample is at least 90% sand or larger materials (10% or less material passes through No. 200 sieve) and less than 0.5% TOC, no further testing of that sample shall be performed.

Each of the Segment A, B and C composite samples containing more than 10% of material passing through the No. 200 sieve or greater than 0.5% TOC will be analyzed for all non-VOC parameters identified in Table 2 of TOGS 5.1.9 and Table 375-6.8(b) of 6NYCRR Part 375 (Environmental Remediation Programs: Remedial Program Soil Cleanup Objectives), both attached hereto as Appendix

C. The appropriate corresponding grab sample (collected prior to compositing the Segments; see section 3.1 above) shall be analyzed for all VOCs in these two Tables.

Dredge sediments sampled in accordance with this Sediment Sampling Plan, and excavation sediments sampled in accordance with the Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan (PW Grosser, 2013), shall be analyzed to determine if there is a risk of significantly higher contaminant levels becoming exposed in the post-dredging/post-excavating bottom or of existing Class C levels not being removed by the proposed dredging/excavation. If results of these sediment analyses determine that there is risk of significantly higher contaminant levels becoming exposed in the post-dredging bottom or that existing Class C levels are not removed by the proposed dredging depth, the applicant will provide a proposed plan to mitigate the problem of elevated contaminant levels. Mitigation would be one of the following: (1) dredging to a shallower depth than planned, (2) dredging to a greater depth until cleaner sediments are exposed, or (3) dredging to a greater depth and then capping with available clean sediments. The mitigation plan will be contained in the Dredging and Excavation Work Plan to be prepared following sampling analysis and submitted to the NYSDEC and USEPA for approval.

The methods of investigation, summary of findings, and conclusions will be summarized in a Sediment Sampling Report for NYSDEC and USEPA review. The report will include soil boring logs with representative photographs, laboratory data sheets, and data summary tables. Moreover, the report will make recommendations for additional sediment characterization, design recommendations, and/or potential disposal sites to ensure that marina dredging has minimal disturbance to Glen Cove Creek and Hempstead Harbor, and provides long-term wetland and aquatic habitat sustainability.

5 LITERATURE CITED

Apex Companies, LLC. 2010. Dredging / Excavation Work Plan: Glen Cove Ferry Terminal. July 2010. 36 pages.

Dvirka and Bartilucci. 2013. Site Management Plan: Gladsky Marine Site. August 2013.

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NYSDEC. 2006. 6NYCRR Part 375: Environmental Remediation Programs. December 2006. 89 pages.

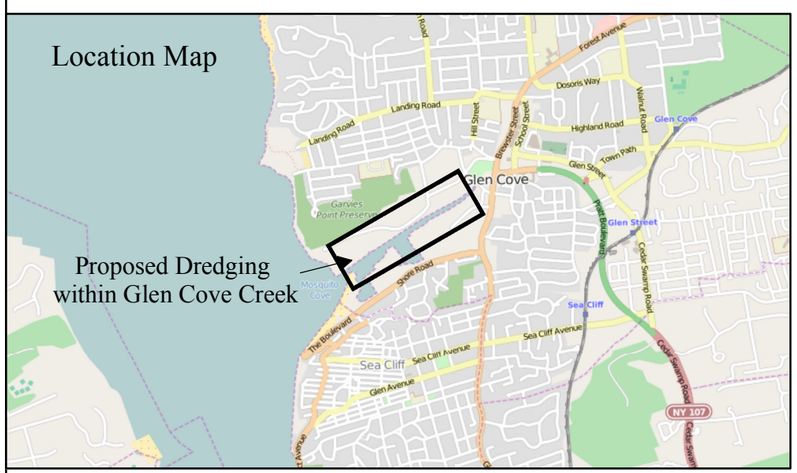
NYSDEC. 2004. Division of Water Technical & Operational Guidance Series (TOGS) 5.1.9: In-Water and Riparian Management of Sediment and Dredged Material. November 2004, Updated September 2006. 72 pages.

PW Grosser, 2013. Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan. December 2013.

U.S. Army Corps of Engineers (USACE). 2007. Final Remedial Action Report: Li Tungsten Superfund Site, Operable Unit 4 – Glen Cove Creek. USACE, Kansas City District. USACE Contract No W912DQ-06-D-0007, Task Order No. 002. October 2007.

Proposed Sediment Sample Locations

Base Map - 2013 orthoimages courtesy of NYS ITS (http://gis.ny.gov)



NOTES:

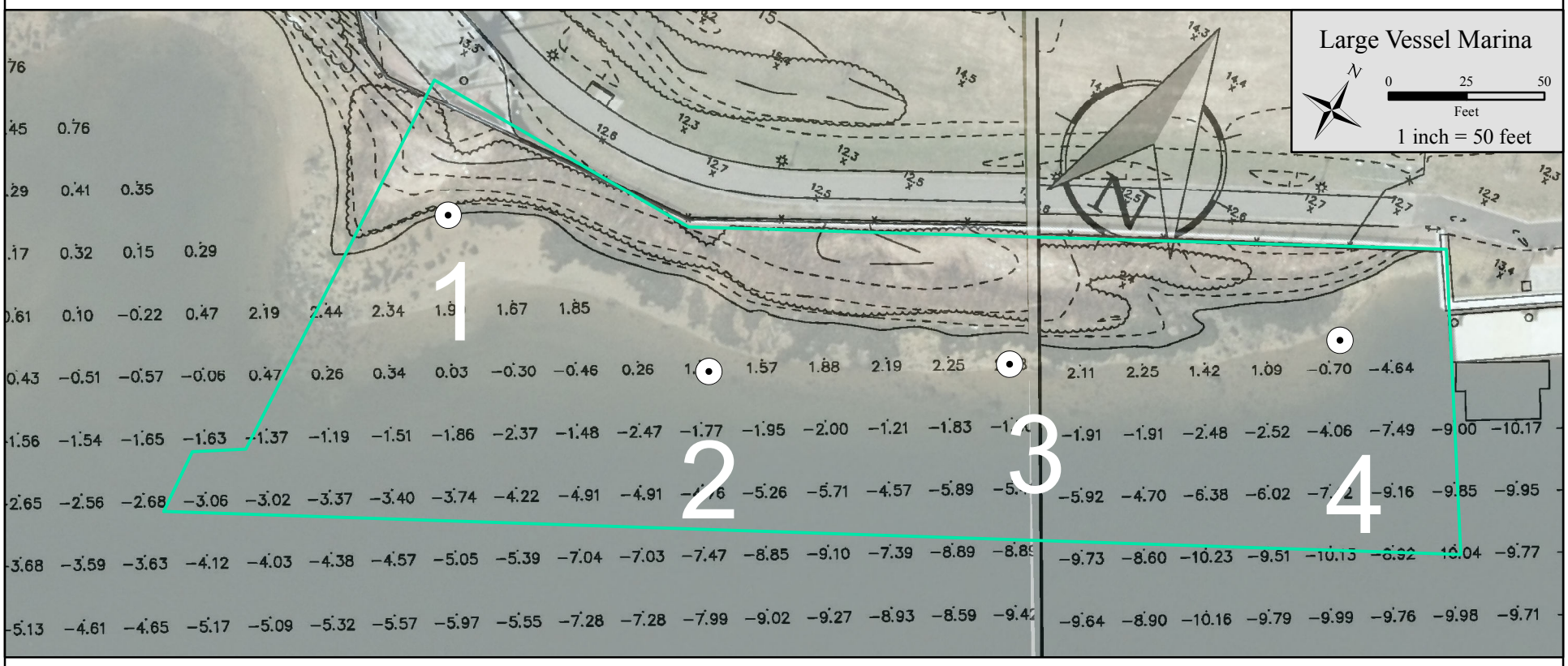
1. Dredge sediment sample number and location based Glen Cove Ferry Terminal Site Management Plan (Dvirka & Bartilucci, 2009). Plan calls for sample every 100 linear feet approximately 25' seaward of the bulkhead line.
   Large Vessel Marina Dredge Area (420+/- lf) N = 4 samples
   Angler's Club Dredge Area (405+/- lf) N = 4 samples
   Transient Marina Dredge Area (500+/- lf) N = 5 samples
2. Sample Previously Collected - Samples collected in accordance with the Pre-Construction Confirmatory/ Data Gap Subsurface Investigation Work Plan (PW Grosser, December 2013).
3. Excavation sediment sampling based on Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan (PW Grosser, 2013).
4. Slope Restoration includes removal of debris and invasive plants, re-grading, and planting with native vegetation. No excavation is proposed. No sampling is proposed.
5. Bathymetric and topographic data based on June 2014 survey map prepared by Advanced American Engineering. Elevations in feet referenced to MLW.

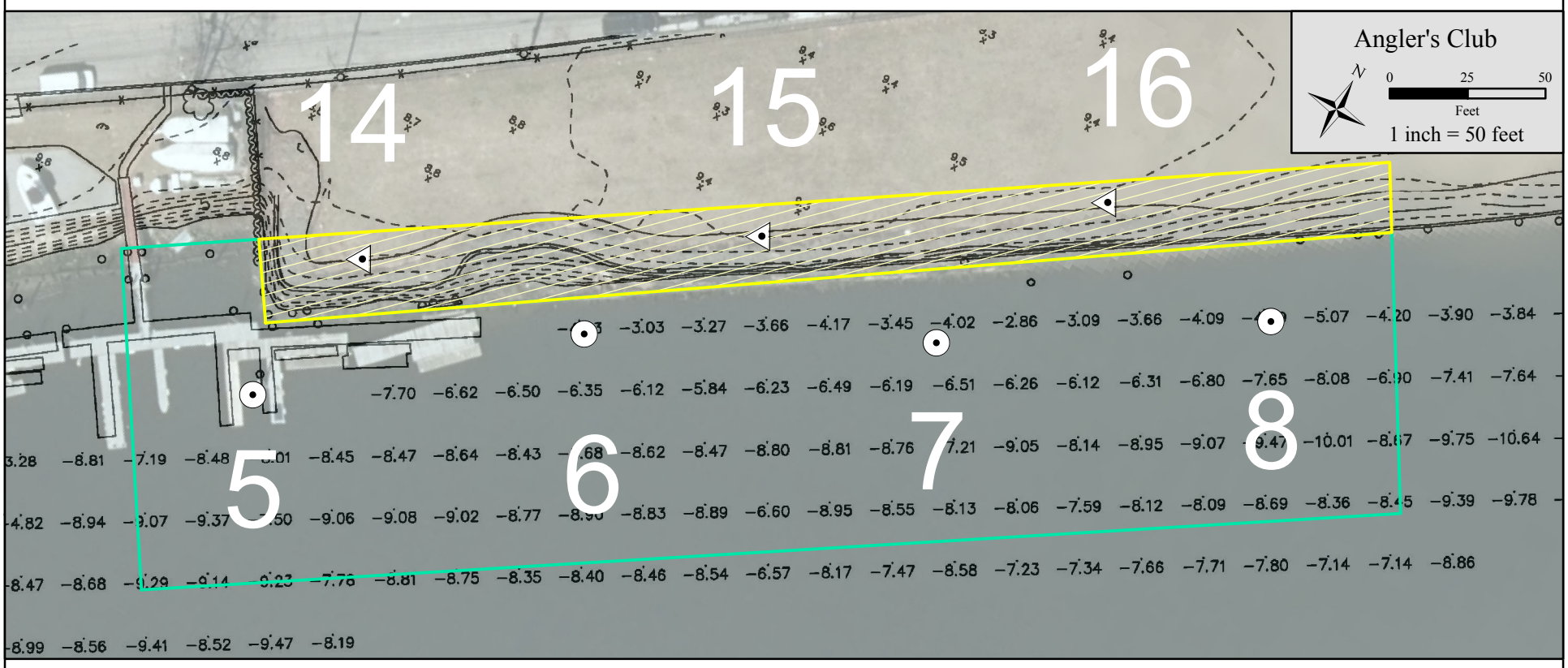
- Existing Outfall
- Dredge Sample
- Excavation Sample
- Sample Previously Collected (Note 2)
- Dredge Area (Note 1)
- Upland Excavation (Note 3)
- Slope Restoration (Note 4)

Land Use Ecological Services, Inc.

Prepared By: Land Use Ecological Services, Inc. 570 Expressway Drive South, Suite 2F Medford, NY 11763 Drawn By: K. Risotto		Project: Glen Cove Creek Mixed Use Waterfront Redevelopment Project Sediment Sample Locations for Proposed Dredging For: RXR Realty 625 RXR Plaze, Uniondale, NY 11556
Date: 6/26/2014	Revised: 9/24/2014, 5/7/2015	Scale: As Noted / FIGURE 6 (Sheet 1 of 2)

Proposed Sediment Sample Locations





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1. Dredge sediment sample number and location based Glen Cove Ferry Terminal Site Management Plan (Dvirka & Bartilucci, 2009). Plan calls for sample every 100 linear feet approximately 25' seaward of the bulkhead line.
   Large Vessel Marina Dredge Area (420+/- lf) N = 4 samples
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   Transient Marina Dredge Area (500+/- lf) N = 5 samples
2. Sample Previously Collected - Samples collected in accordance with the Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan (PW Grosser, December 2013).
3. Excavation sediment sampling based on Pre-Construction Confirmatory/Data Gap Subsurface Investigation Work Plan.
4. Slope Restoration includes removal of debris and invasive plants, re-grading, and planting with native vegetation. No excavation is proposed. No sampling is proposed for the marina dredging permit/application.
5. Bathymetric and topographic data based on June 2014 survey map prepared by Advanced American Engineering. Elevations in feet referenced to MLW.
6. Base Map - 2013 orthoimages courtesy of NYS ITS (http://gis.ny.gov).

- Dredge Sample
- Excavation Sample
- Sample Previously Collected
- Existing Outfall
- Dredge Area
- Upland Excavation

Land Use Ecological Services, Inc.

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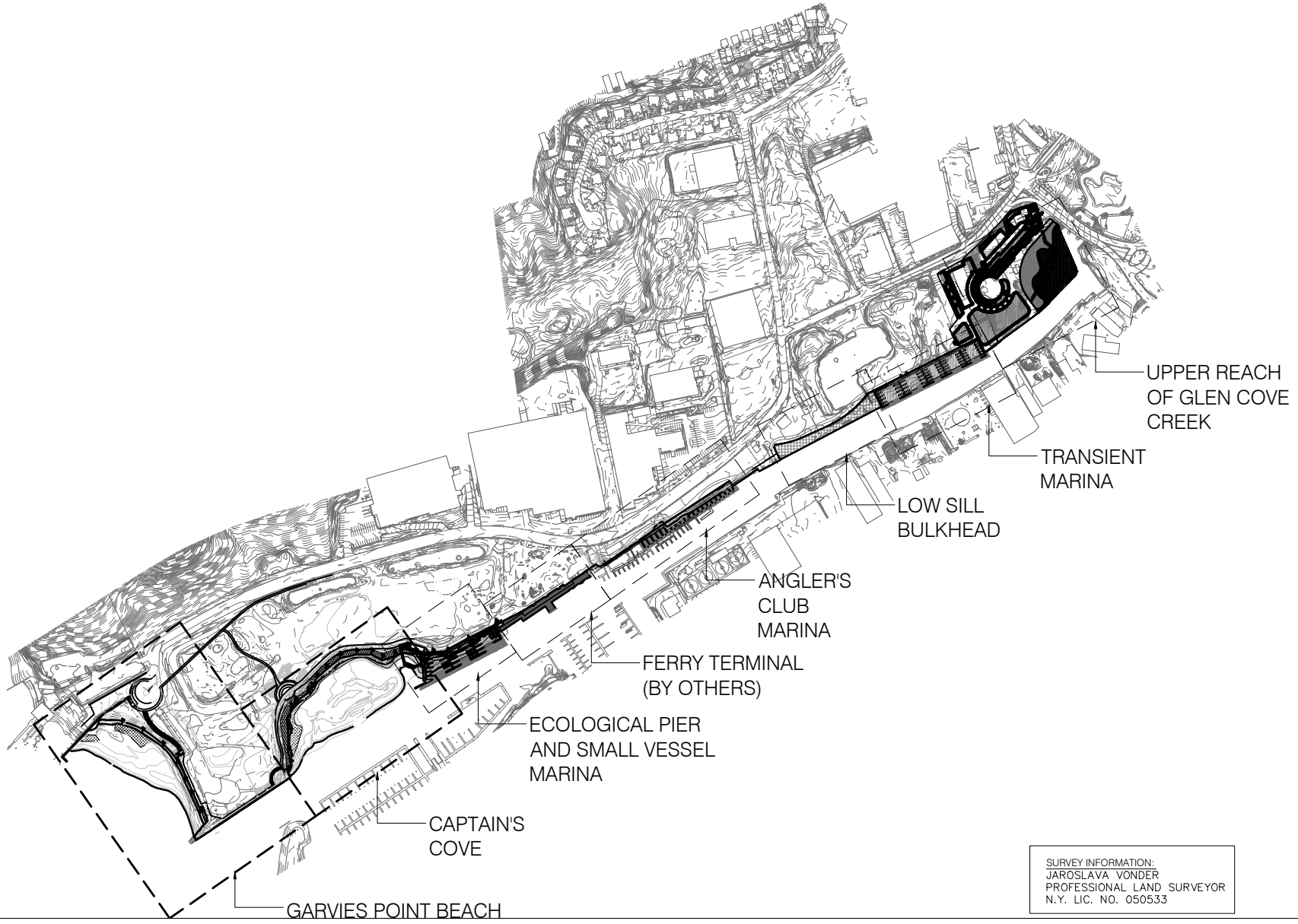
Project: Glen Cove Creek Mixed Use Waterfront Redevelopment Project
Sediment Sample Locations for Proposed Dredging
For: RXR Realty
625 RXR Plaze, Uniondale, NY 11556

Date: 9/24/2014 | Revised: 5/7/2015 | Scale: As Noted | FIGURE 6 (Sheet 2 of 2)

Appendix A –Waterfront Site Plans Prepared by Advanced American Engineering, PLLC, December 2014



SURVEY INFORMATION:
JAROSLAVA VONDER
PROFESSIONAL LAND SURVEYOR
N.Y. LIC. NO. 050533

1	SITE PLAN - PROPOSED REDEVELOPENT
	1" = 600'-0"

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NASSAU COUNTY, NEW YORK

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NOTES:

1. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MWH) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVIES, INC. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
2. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.
3. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.

1. NYSDEC JURISDICTIONAL LIMITS, LABELED AS: NYSDEC ART. 25 (TIDAL WETLANDS) JURISDICTIONAL LIMITS AS CONFIRMED BY NYSDEC 6/11/2010.
2. SPRING HIGH WATER LINE (SHW) AT ELEVATION 6.0' NAVD
3. MEAN HIGH WATER LINE (MHW) AT ELEVATION 4.4' NAVD
4. MEAN LOW WATER LINE (MLW) AT ELEVATION -2.8' NAVD
5. WHERE NOT SPECIFIED ON SHEET, THE TIDAL WETLAND BOUNDARY, SHW, MHW, AND MLW LINE ARE EQUIVALENT TO THE EXISTING BULKHEAD.

REFERENCES:

1. BOUNDARY INFORMATION AS PER PLAN ENTITLED "ALTA/ACSM LAND TITLE SURVEY" FOR GLEN ISLE - GLEN COVE WATERFRONT REDEVELOPMENT, CITY OF GLEN COVE, NASSAU COUNTY, NEW YORK PREPARED BY PAULUS SOKOLOWSKI & SARTOR, PC, DATED 9/27/2012. HORIZONTAL DATUM IS NORTH N.Y.S.P.C.S.
2. TOPOGRAPHIC AND EXISTING CONDITION INFORMATION AS PER AERIAL PHOTOGRAPHY PREPARED BY ATLANTIS AERIAL SURVEY CO., INC., DATED 3/23/2012. HORIZONTAL DATUM IS NAD 83/07. VERTICAL DATUM IS NAVD 88.
3. PARTIAL SURVEY OF EXISTING FERRY PARCEL PREPARED BY PAULUS SOKOLOWSKI & SARTOR, PC, PER FIELD SURVEY OF SEPTEMBER 2012.
4. LIMITS OF TIDAL WETLANDS PREPARED BY LAND USE ECOLOGICAL SERVICES INC., DATED 5/11/2004 AND VERIFIED 12/9/2008.

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PLANTING SPECIFICATIONS - WETLAND & SHORELINE RESTORATION AREAS

Planting Specifications for the wetland and shoreline restoration areas at Captain's Cove, Renaissance Park, and the Upper Reach of Glen Cove Creek are provided below.

Plant Species and Size

Upland Shrubs (3-4' in height, 2 gallon containers on 12' centers):

Northern Bayberry	*Morella pensylvanica*
Groundsel Bush	*Baccharis halimifolia*
Beach Plum	*Prunus maritima*

Upland Herbaceous Plants (2" plugs on 18" centers):

Switch Grass	*Panicum virgatum*
Seaside Goldenrod	*Solidago sempervirens*
Butterfly Milkweed	*Asclepias tuberosa*
Smooth Aster	*Aster laevis*

High Marsh Plants (2" plugs on 18" centers):

Salt Hay	*Spartina patens*
Spike Grass	*Distichlis spicata*

Low Marsh Plants (2" plugs on 18" centers):

Smooth Cordgrass	*Spartina alterniflora*

Whole Marsh Sods (4-9 sq. ft. sods distributed evenly throughout receiving areas):

Planting Windows

Low Marsh Sod Transplanting: March 1 to June 30
Low Marsh, High Marsh, and Upland Slope Plugs: Spring Season April 15 to June 15
Upland Slope Shrubs: April 1 to May 15

Elevation Requirements

Upland Slope Plants: > 6.0'
High Marsh Plants: 4.4 - 6.0'
Low Marsh Plants: 1.0' - 4.4'

Planting Methods and Specifications

Site Preparation

Planting substrates shall be free from debris, noxious weeds, toxic substances or other materials harmful to plant growth. Prior to commencement of planting operations, the Contractor shall complete a Soils Test in accordance with ASTM D 5268 and ASTM D 4972 to determine the pH, organic matter, soluble salt, and nutrient contents, as well as soil texture, of the planting substrates. Separate sample collections shall occur for each planting area, and be random over the separate areas.

Prior to the commencement of the planting operations, the Contractor shall verify that finished grades are as indicated on the plans, and the finishing and compaction requirements have been completed in accordance with design specifications. After grading is complete, heavy equipment is prohibited from entering planting areas.

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Herbivory Fence

Herbivory Fence shall be installed after final grades in the marsh areas and upland slope planting areas are completed. Herbivory Fence shall be installed prior to or concurrently with installation of the low and high marsh and upland slope plants. Under no circumstances are these plants to be planted outside the containment of a satisfactorily installed Herbivory Fence.

Fence Materials shall be as follows:
Herbivory Fence shall be made of the following materials:

Wood Stakes on 10' centers: Untreated hardwood lumber, pointed-tip stakes. Stakes must be free from large knots that weaken the strength of the stake.

Fence Fabric: 6-ft high panel deer exclusion fence, UV-stabilized, minimum 600 lbs/ sf breaking strength, or equivalent item

Fabric may be attached to wood stakes using heavy-duty zip-ties or 1.5 inch hot dipped galvanized u-nails.

Nylon twine: Braided nylon mason's line #18 gauge cord with tensile strength of 150 pounds.

Plastic flagging tape or Mylar tape

Herbivory Fence shall be installed after final grades in the marsh and upland slope planting areas are completed and approved by. Herbivory Fence shall be installed prior to or concurrently with installation of the marsh and upland plants. Under no circumstances are these plants to be planted outside the containment of a satisfactorily installed Herbivory Fence.

Stakes shall be pounded vertically into the substrate. Herbivory Fence shall be installed a minimum of 18 inches away from the first row of wetland planting. At least one stake shall be also be installed in the interior of each cell to provide support for nylon twine and flagging tape. Planting cells should be approximately 50' x 50' in size. The fence fabric shall be secured at the top, middle, and bottom to the wood stakes with plastic ties. All fence shall be placed so that the bottom of the fence lies entirely on the substrate. Upon completion of the outer perimeter of each cell and the installation of interior stakes, nylon twine shall be strung across the tops of the planting areas from the perimeter stakes to the interior stakes. The nylon twine shall be wrapped around the top of the stake several times. The twine shall be strung to the next stake and wrapped again before continuing on to the next stake. Mylar or plastic flagging, trailing at least 12 inches of tape from the tie, shall be tied to the top of each hardwood stake (both perimeter and interior). The flagging shall also be tied along the interior nylon twine. Stringing of the interior twine and tying of flagging may be done after planting in a cell is completed; however, no planted area is to be left exposed without interior lines and flagging at the end of any workday. No unused strands of nylon twine, fence fabric, packaging materials, wood stakes or any other construction debris shall be left on the Project Site after fence installation and guarantee maintenance has been completed. Herbviory fencing may be removed after two growing seasons if 85% coverage/survivorship is attained.

Plant Material

Plants shall be well-shaped, well-grown, vigorous plants having healthy and well branched root systems. Plants shall be free from disease, harmful insects and insect eggs, sun-scald injury, disfigurement, and abrasion. Plants shall be free of shock or damage to branches, trunks or root systems that may occur during digging and preparation for shipment, method of shipment or actual shipment. Marsh plants shall be acclimated to saline conditions (20 ppt) when delivered and this needs to be maintain until they are planted. Plants should be from a suitable geographic location to ensure proper adaptation to Long Island climate and edaphic conditions. Plants shall not be injured in handling. Plants shall not be handled by the trunk or stems. Materials shall not be dropped from vehicles.

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Plant Installation

Plugs:

Plugs shall be planted at a depth of no more than 1 inch deeper than grown in the nursery. The top of the rootstock mass shall be a minimum of 1 inch below the soil surface. Plants shall be set plumb, with the root system oriented downward, and held in position until sufficient soil has been firmly placed by hand around the root mass. The plant shall be set even with or slightly higher than the surrounding grade. It shall be unacceptable to step on or around planting holes for the purposed of placing backfill. All planting shall be done "in the dry", i.e. while the tide is below the elevations of the area being planted.

Shrubs:

Plant pits shall be dug approximately 4 inches wider than the stock size. To encourage well-aerated soil to be available to the root system for favorable root growth, plant pits shall be constructed with sides sloping towards the base. Prior to placing a shrub, fertilizer shall be placed in the bottom of each plant pit. At no time shall fertilizer be placed in the water column or on top of the soil surface.

Fertilizers shall only be applied to upland shrubs. Shrub shall be a slow release tablet with a 20-10-5 nitrogen-phosphorus-potassium ratio. Fertilization rate shall not exceed manufacturer's specifications for appropriate-sized shrub.

Transplanting of Low Marsh Sods:

Marsh sods must be re-planted within 48 hours of being removed or uprooted. Marsh sods may not be transplanted when the ambient temperature are below 33 degrees Fahrenheit.

Any wrack and debris that has collected in the low marsh planting areas shall be thoroughly removed and disposed of in an offsite licensed facility prior to transplanting. These areas shall be raked clean and smooth. All transplanting shall be done "in the dry", i.e. while the tide is below the elevations of the area being planted. The Contractor shall schedule planting on a daily basis to account for the diurnal tidal cycles. Transplanting holes shall not be dug while planting substrates are inundated.

Sods shall be removed with caution by a long reach excavator position on top of the existing or reconstructed bulkhead. A Wetland Specialist shall be on-site to supervise transplanting of low marsh sods during all transplanting activities. Excavator bucket shall be guided to proper depth to ensure that roots and rhizomes remain intact. The long reach excavator may place a stockpile of sods and then have other machinery, such as a bobcat, move the hummocks to the final transplant area. Transplanted marsh sods shall be approximately 4-9 square feet in area. Holes for the sods shall be dug, so that the backfill goes no higher than the top of any mussels at the base of the plant material or no lower than the base of the mussel bed. If mussels are not present, the hummocks must be backfilled up to the maroon part of the stems of the *Spartina alterniflora*. The green part *Spartina alterniflora* stems should not be covered with backfill material. All backfill shall be smoothed, leveled and tamped so that there are no holes, divots or ponding around the sods. The grade immediately around the sods shall be re-checked no sooner than 48 hours after fill placement and any holes, divets or ponding must be fixed by adding fill or re-grading.

Maintenance

Upland plants shall be irrigated to ensure 1 inch of water per week through natural precipitation or supplemented by irrigation.

Any plants not installed on the day of delivery at the project site shall be stored and protected in designated areas from direct exposure to wind and sun. Any areas used for temporary storage of low and high marsh plants must be enclosed with perimeter Herbivory Fence to prevent grazing by waterfowl. Plants must not be stored on-site for more than 7 days before planting. If planting is delayed for more than 6 hours after delivery, the plants shall be watered.

Installed plants shall be maintained in a healthy growing condition. Maintenance of planting areas during construction shall include preventing the intrusion of weeds, grass, and other undesired vegetation, watering, and adjusting grades for settling. Grass, weeds, and other undesired vegetation shall be removed before reaching a maximum height of 12 inches.

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Any planted areas disturbed prior to completion of the guarantee/maintenance period of five growing seasons shall be repaired or reinstalled in accordance with the above specifications.

During the guarantee/maintenance period and until final acceptance, mechanical weed removal, hand pulling and herbicide application may be utilized to keep materials free from invasive vegetation.

During the guarantee/maintenance period, twice-yearly inspections (between May and August) to identify and remove any invasive vegetation [i.e. *Phragmites australis* (Common reed grass), *Ailanthis altissima* (Tree- of-Heaven), *Eleagnus angustifolia* (Russian olive), *Artemesia vulgaris* (mugwort) or other invasive species]. All plant vegetation and naturally recruiting native vegetation shall remain undisturbed. Mechanical weed removal shall consist of the removal of stems and rhizomes. Should invasives cover 5% or more of the site herbicide may be applied.

Necessary environmental permits must be obtained for any herbicide treatments. Herbicides shall be used with extreme caution in regard to safety and health. All manufacturer's safety instructions to avoid adverse impacts to human health must be followed. Any spray materials shall be applied with great care to avoid collateral damage to surrounding, native or planted vegetation. Applications to herbaceous invasives shall consist of a glyphosate based herbicide with a non-ionic surfactant. Applications to woody invasives shall consist of spraying the cut stump. All herbicides shall be applied by hand painting, back-pack sprayer or other controlled means to prevent damage to desirable planted vegetation. All spraying shall be done at times when wind does not exceed a velocity of five (5) miles per hour.

Survivorship Guarantee/Maintenance Period

As required by NYSDEC in their Salt Marsh Restoration and Monitoring Guidelines (Niedowski, 2000), applicant shall be responsible for ensuring 85 percent survival of the planted vegetation over five (5) growing seasons. Eighty-five percent (85%) survival shall not be required over five growing seasons if greater than 85% coverage of native vegetation is observed. The plant guarantee period shall commence on the date of the completion of construction, and shall end on October 15 on the fifth growing season. Plant losses due to attributed to herbivores, disease, drought, wind, or storm events shall not lower the minimum survival or coverage requirements. If replacement plants are installed at the end of the five year period to attain 85% survival or coverage, replacement plants shall be guaranteed for an additional growing season from the date of replanting. For low marsh sods, replacement will consist of a 3 ft by 3 ft plot with *Spartina alterniflora* plugs placed 6 inches on center, or a total of 36 plugs.

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

G-005

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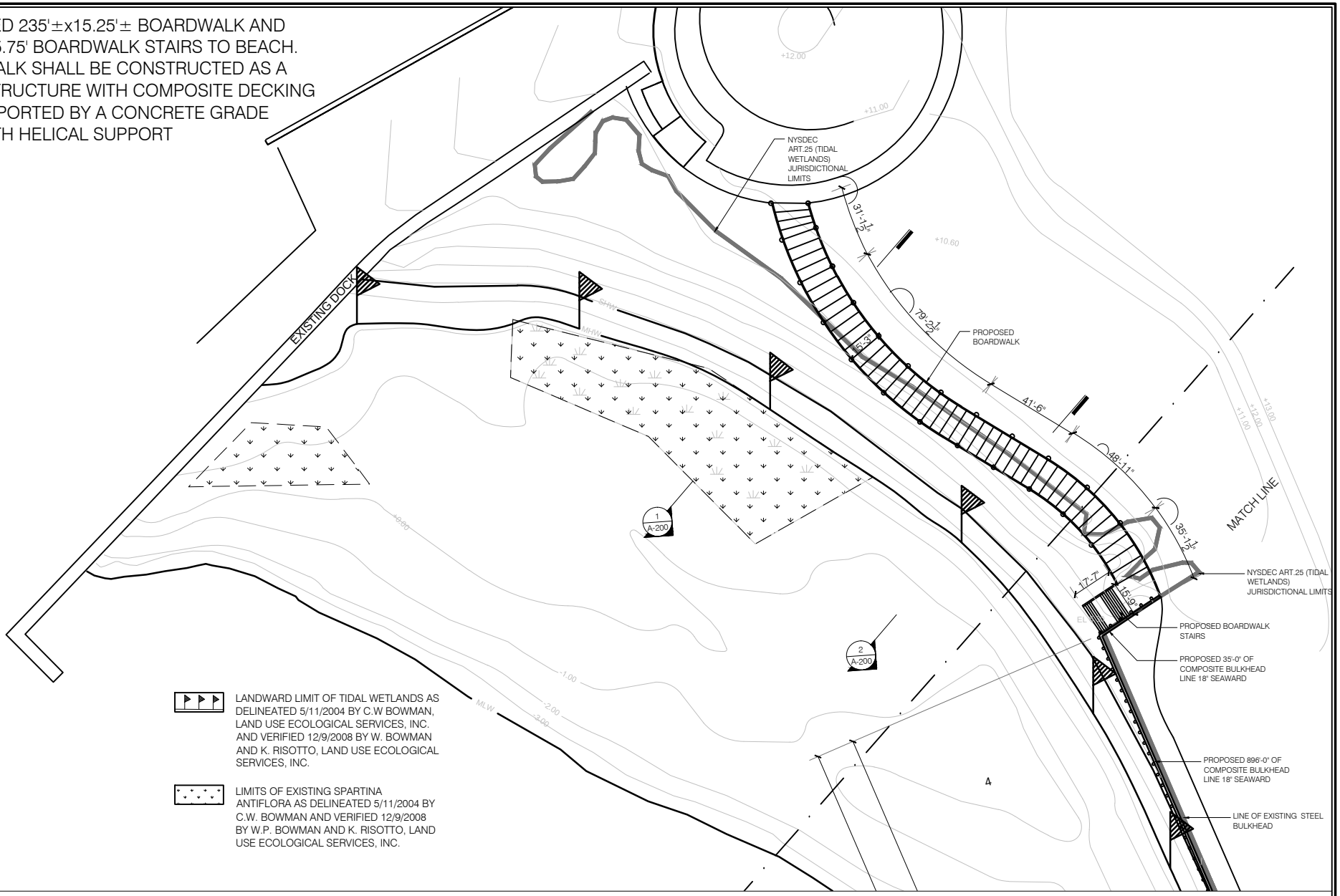
PROPOSED 235'±x15.25'± BOARDWALK AND 17.6' ±x15.75' BOARDWALK STAIRS TO BEACH. BOARDWALK SHALL BE CONSTRUCTED AS A WOOD STRUCTURE WITH COMPOSITE DECKING AND SUPPORTED BY A CONCRETE GRADE BEAM WITH HELICAL SUPPORT



1	GARVIES POINT BEACH PLAN
	1" = 60'-0"

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Phone: 631.930.5337

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT BEACH

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-100

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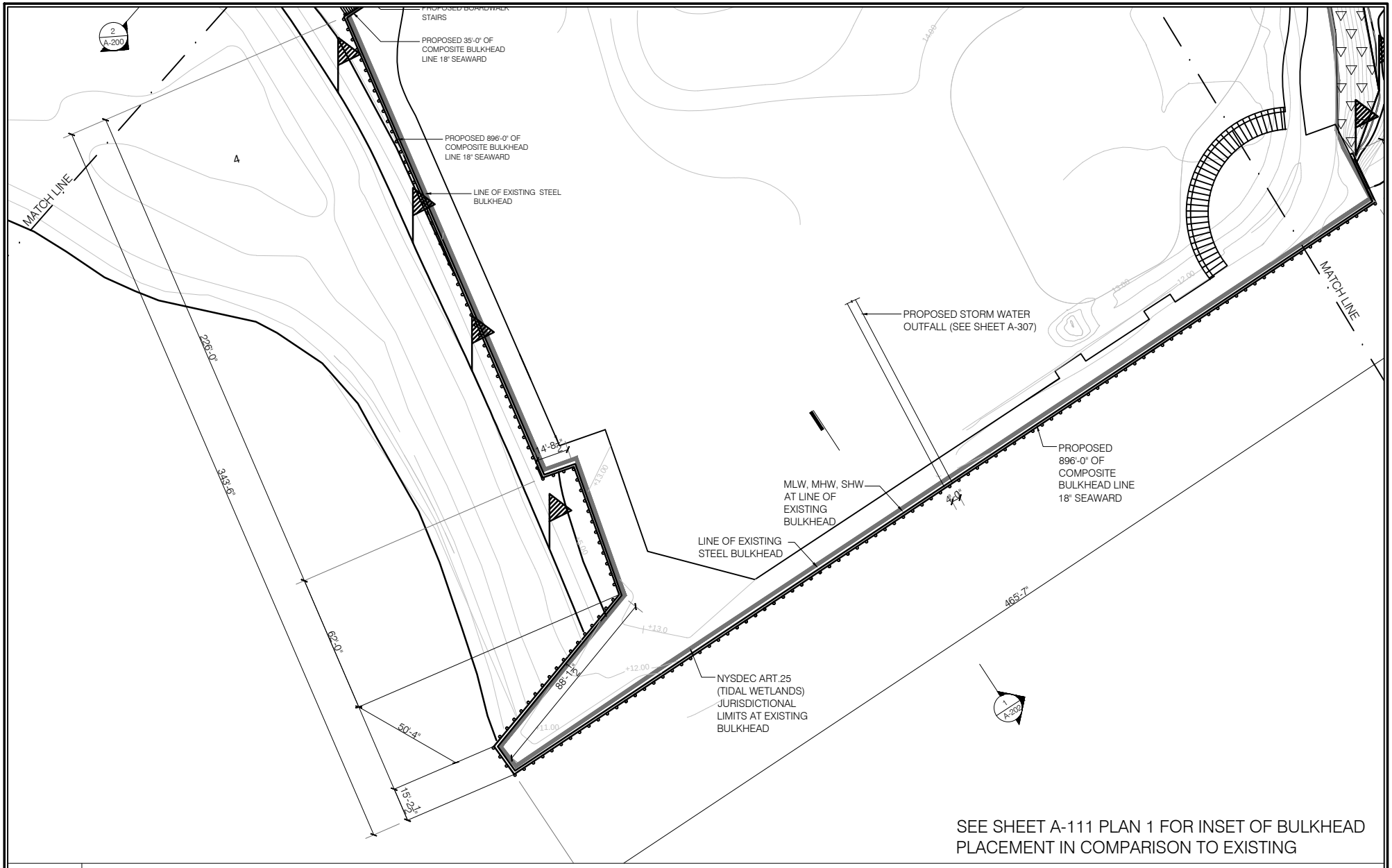

1	GARVIES POINT BEACH PLAN
	1" = 60'-0"

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Suite 25, Melville, NY 11747
Phone: 631.930.5337

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT BEACH

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-101

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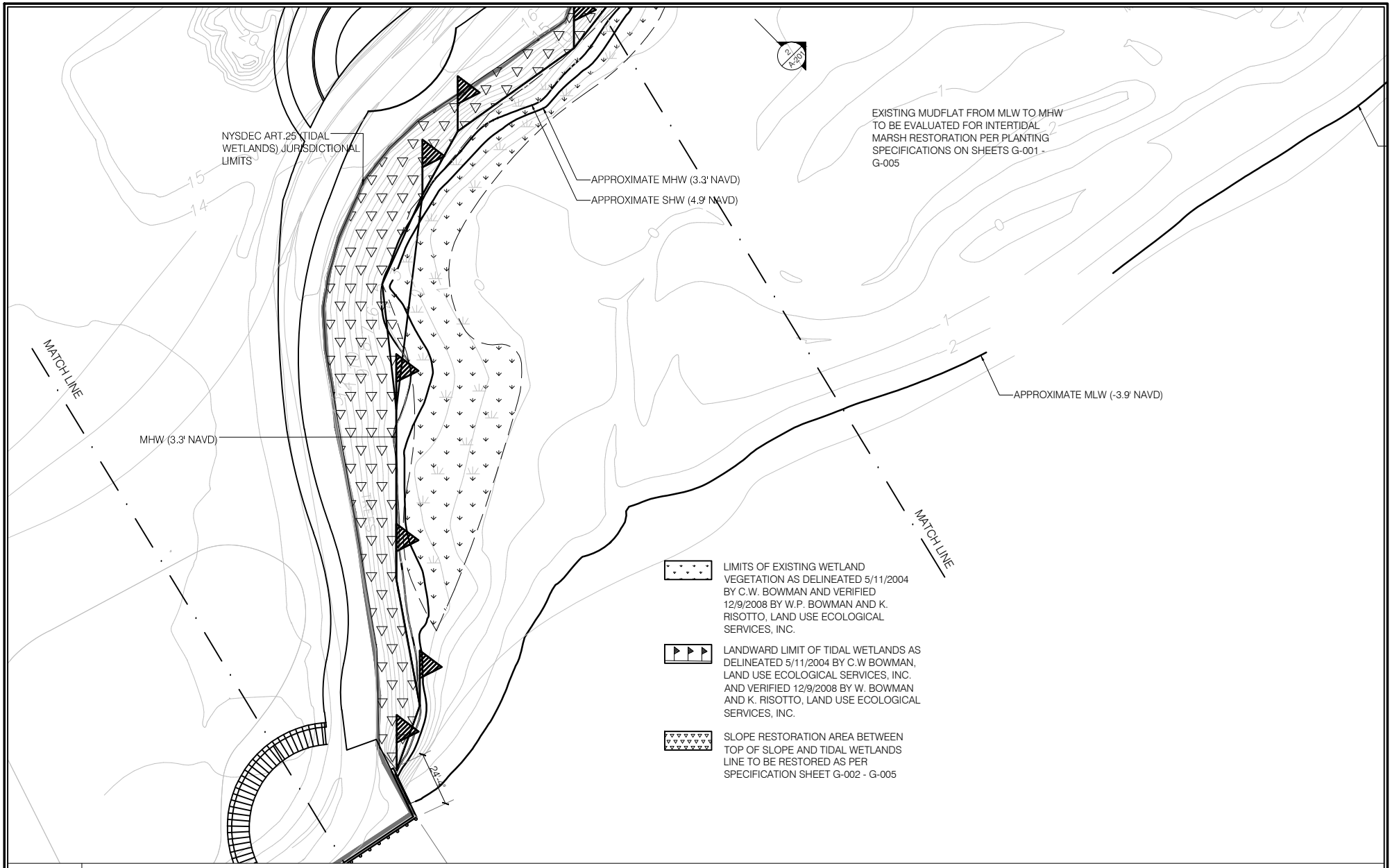

1 CAPTAIN'S COVE PLAN

1" = 60'-0"

Advanced American Engineering PLLC.
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Suite 25, Melville, NY 11747
Phone: 631.930.5337

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

CAPTAIN'S COVE

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-102

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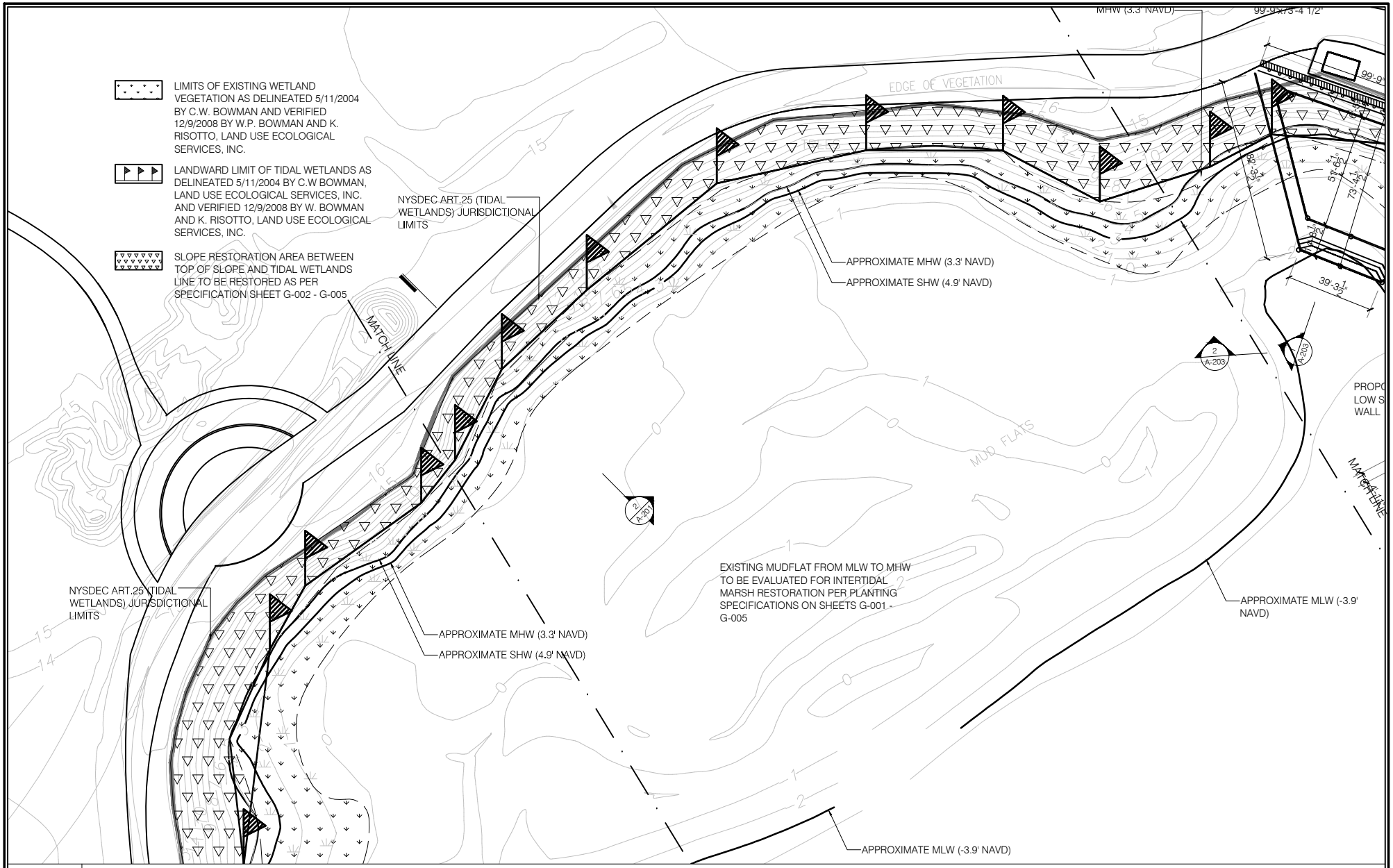

1 CAPTAIN'S COVE PLAN

1" = 60'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

CAPTAIN'S COVE

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-103

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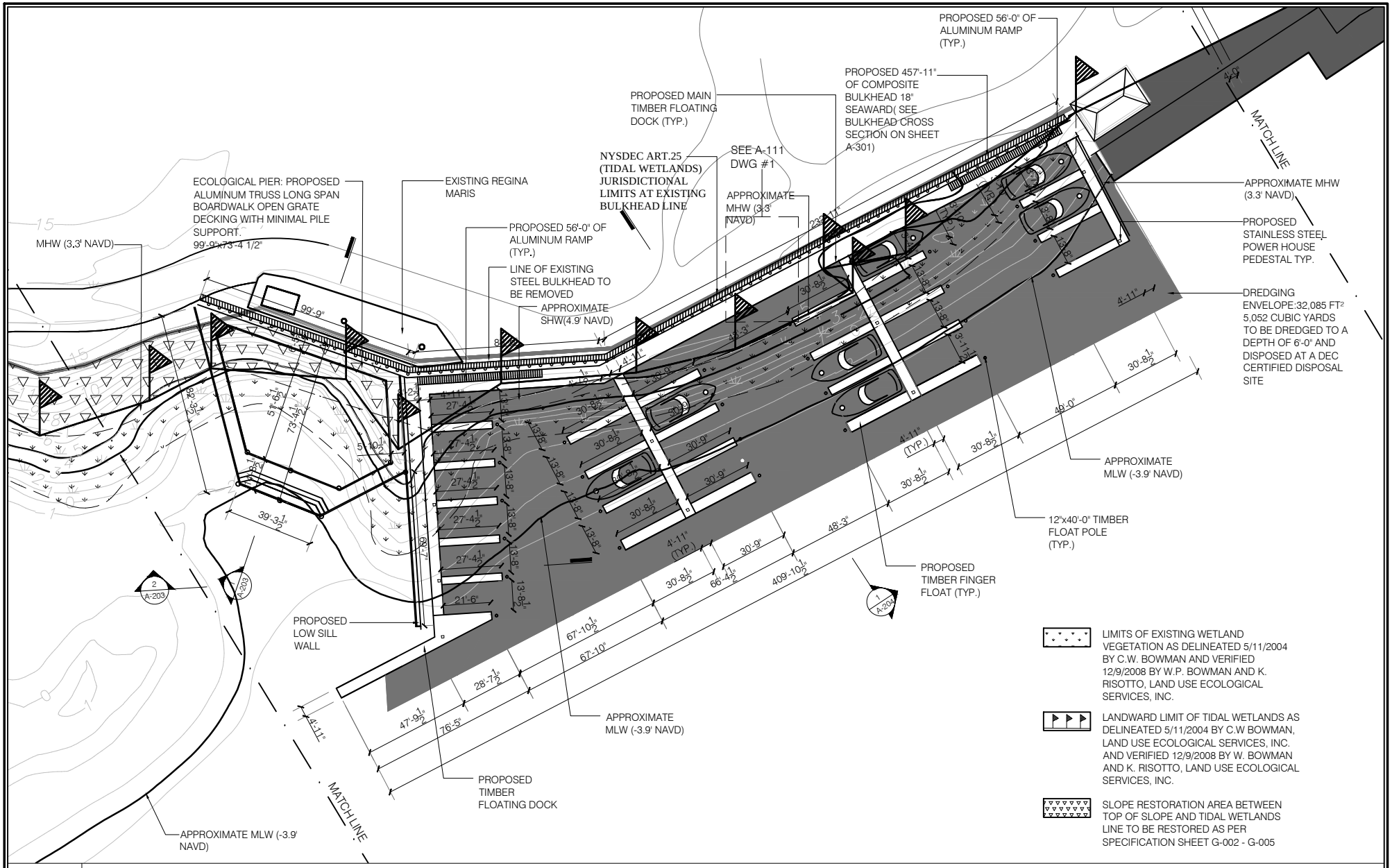

1 ECOLOGICAL PIER AND SMALL VESSEL MARINA PLAN

1" = 60'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ECOLOGICAL PIER AND SMALL VESSEL MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-104

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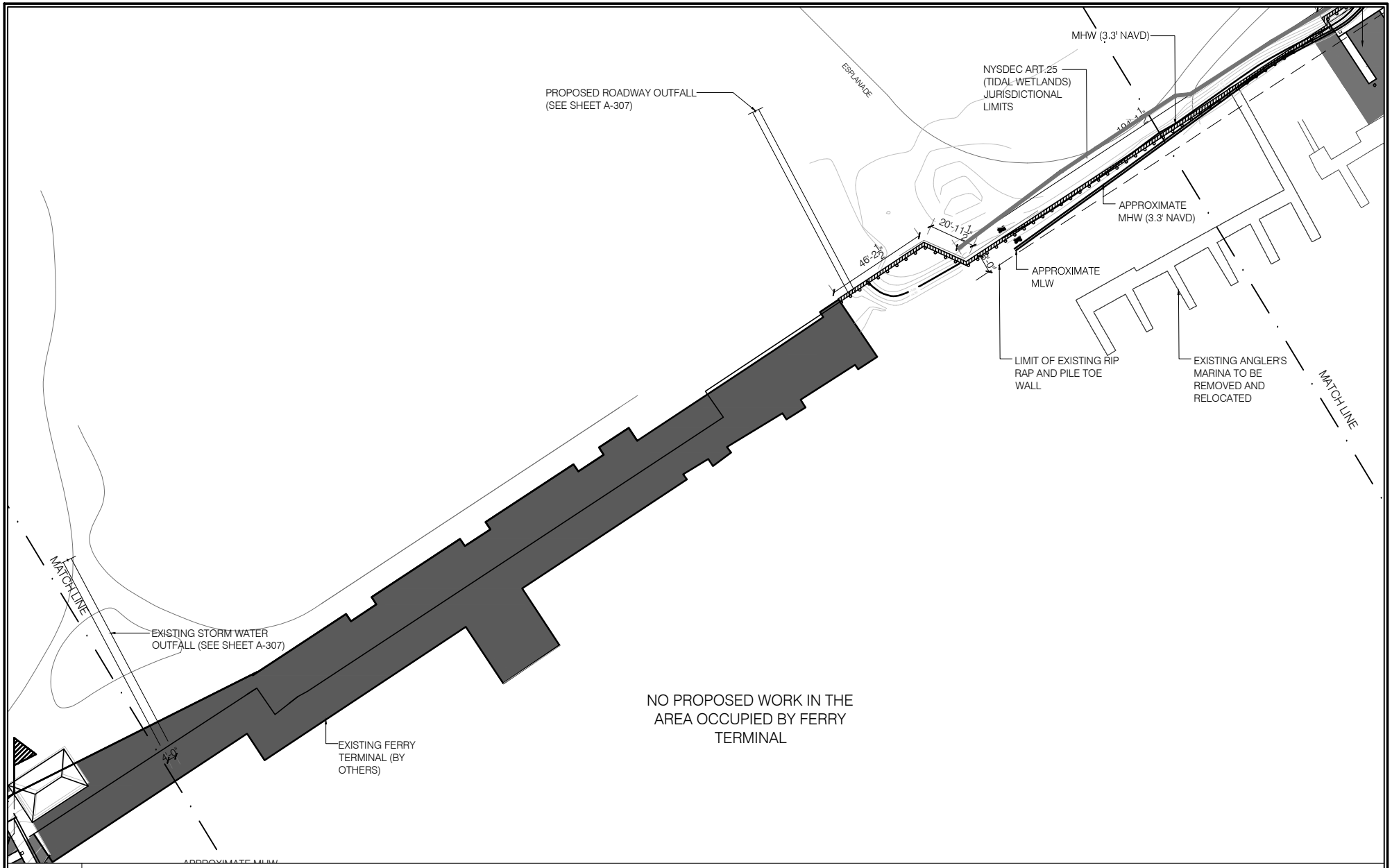

1	ECOLOGICAL PIER AND SMALL VESSEL MARINA PLAN
	1" = 60'-0"

Advanced American Engineering PLLC.
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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

FERRY TERMINAL

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-105

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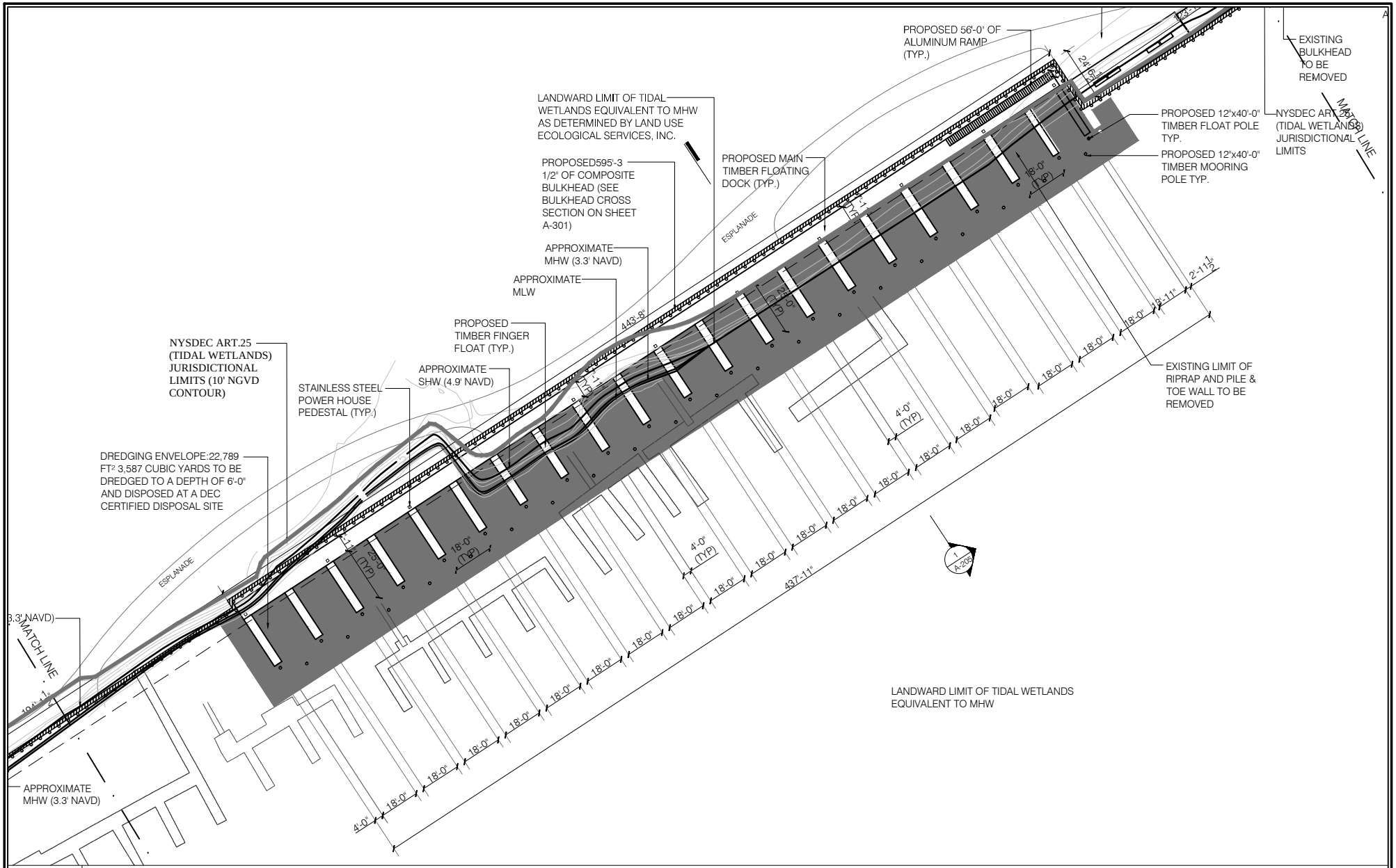

1	ANGLER'S CLUB MARINA PLAN
	1" = 60'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ANGLER'S CLUB MARINA

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-106

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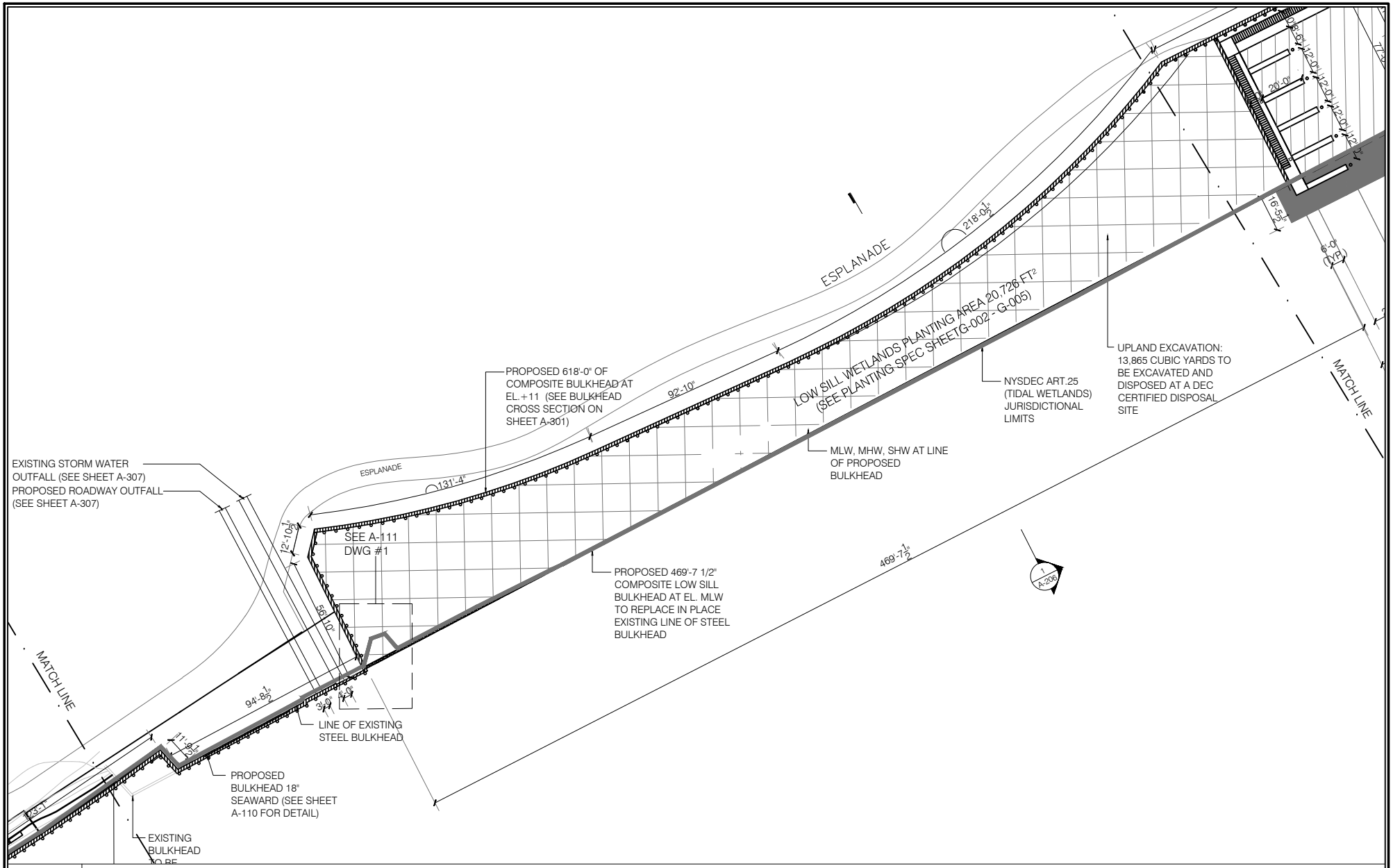

1	LOW SILL BULKHEAD PLAN
	1" = 60'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

LOW SILL BULKHEAD

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-107

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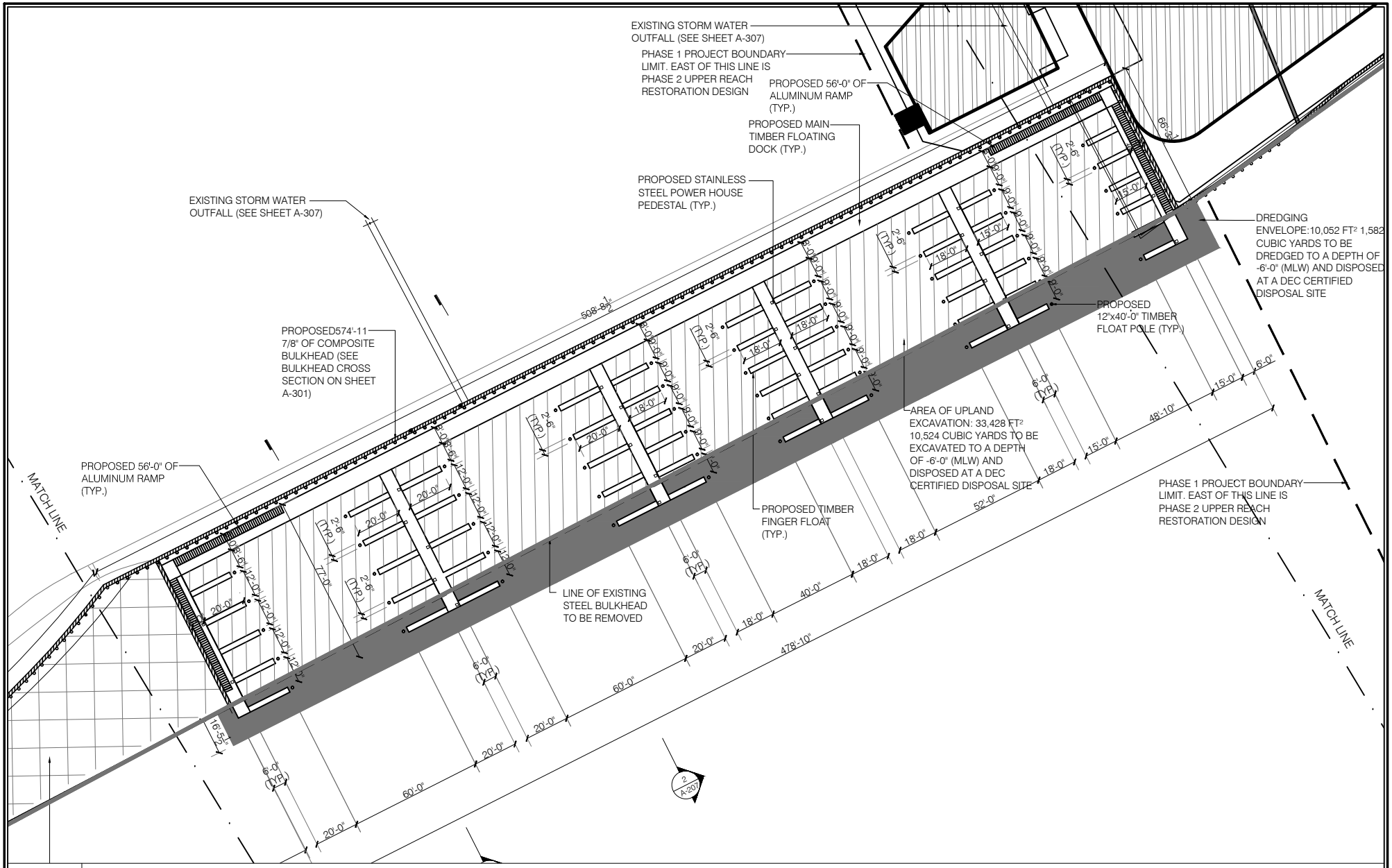

1 TRANSIENT MARINA PLAN

1" = 60'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TRANSIENT MARINA

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-108

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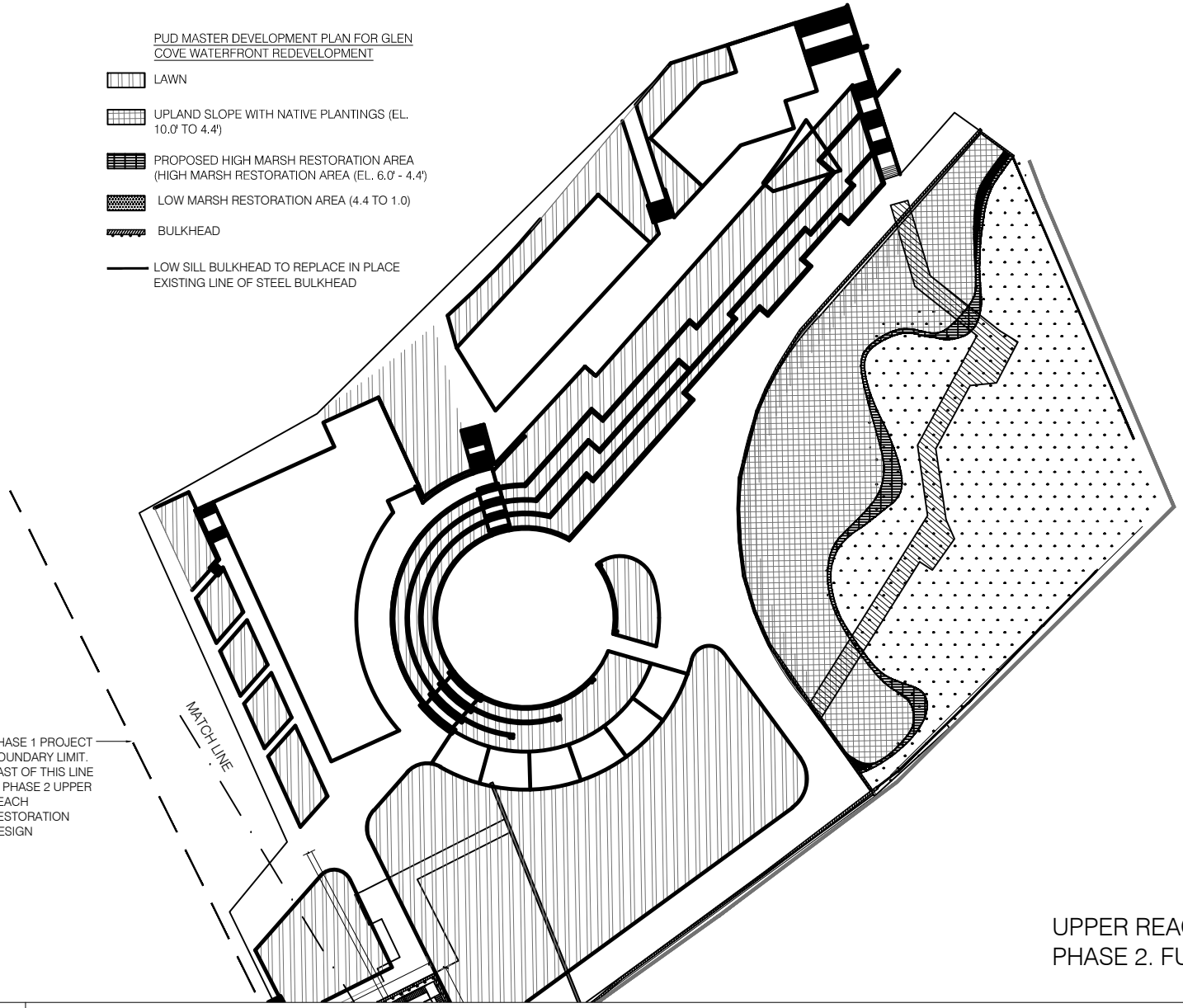

UPPER REACH RESTORATION DESIGN
PHASE 2. FUTURE PHASES TO BE DEFINED

1	TIDAL WEIR AND TURNING BASIN
	1" = 90'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

UPPER REACH OF GLEN COVE CREEK

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-109

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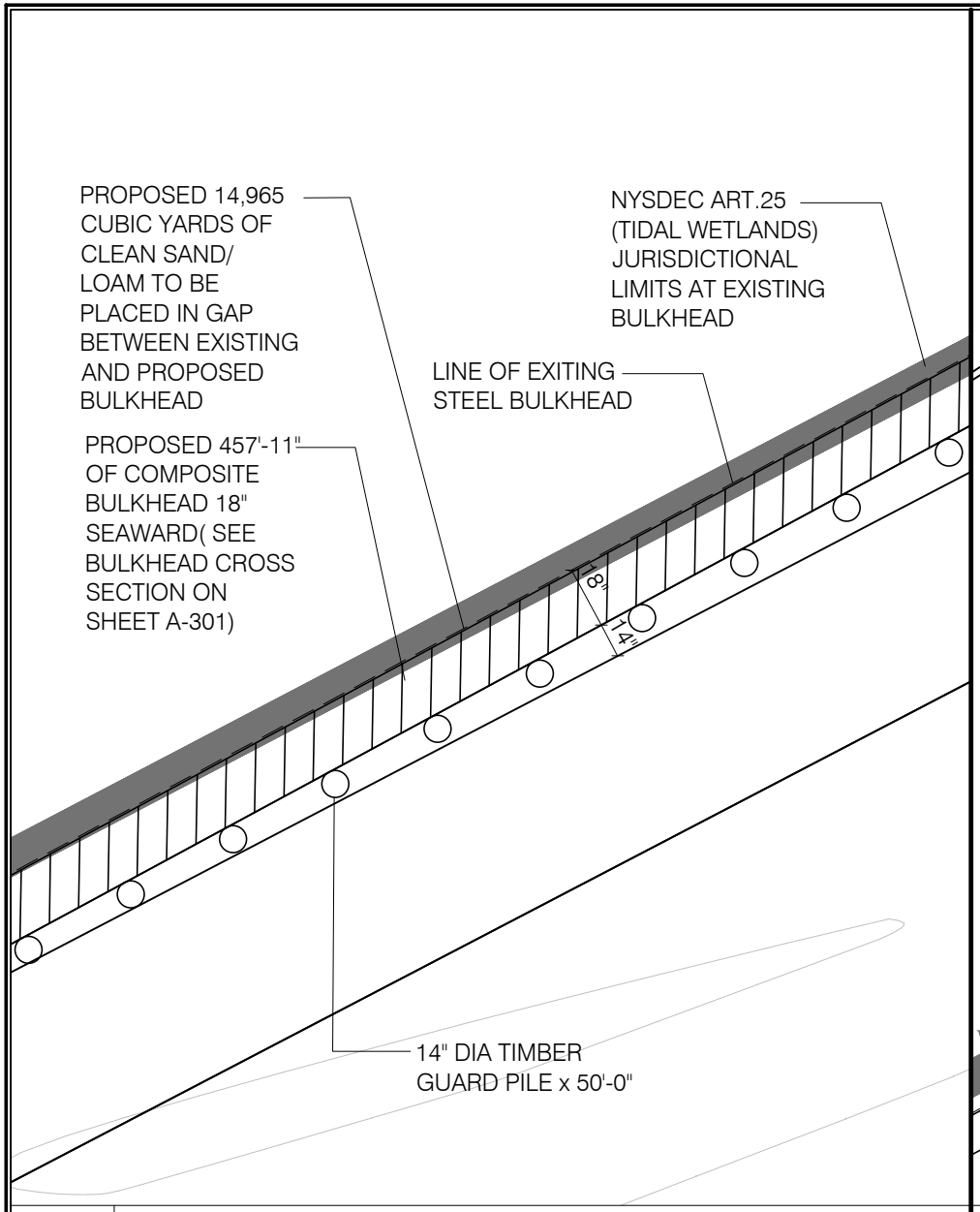
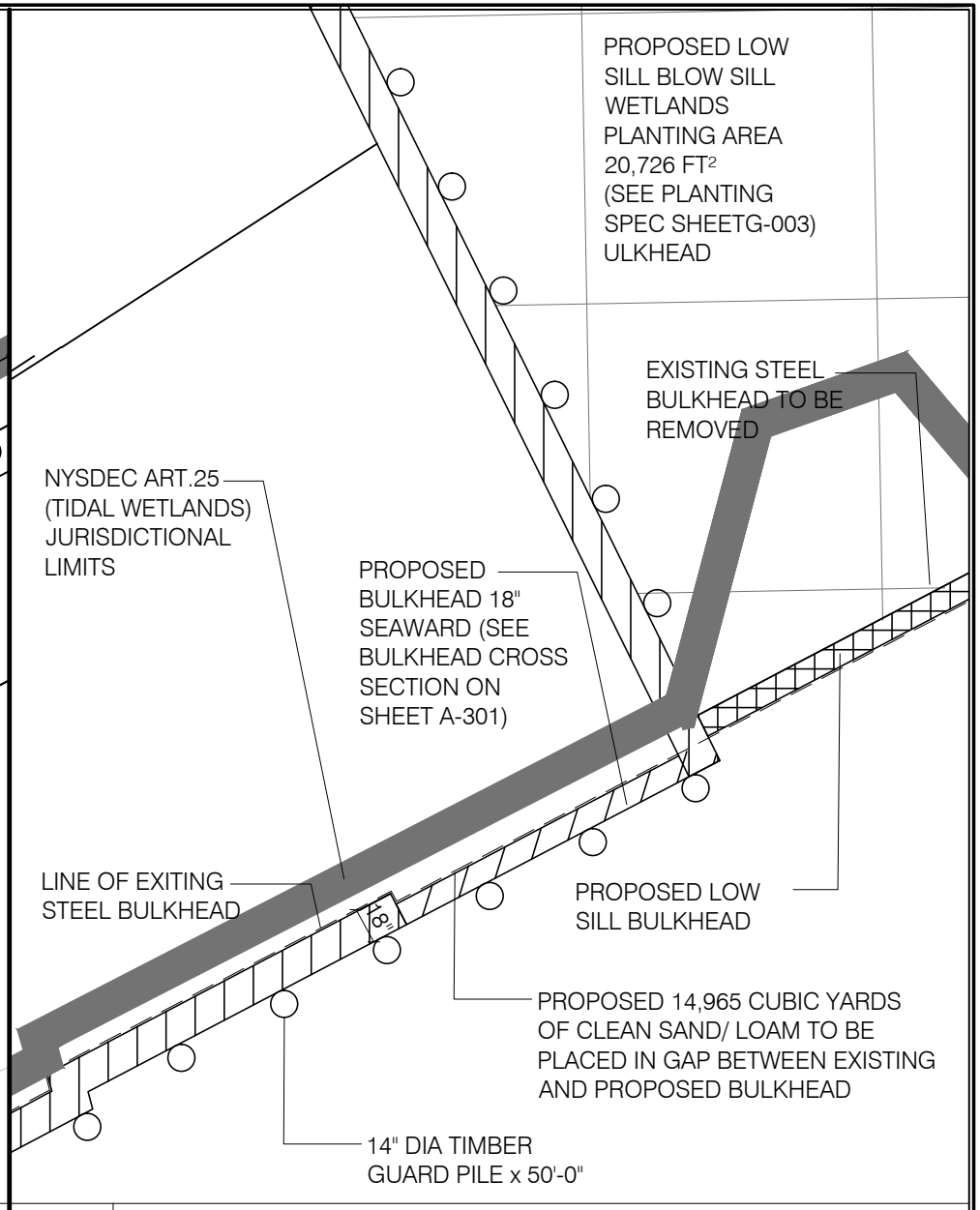


1	SMALL VESSEL MARINA BULKHEAD PLACEMENT
	1" = 8'-0"



2	BULKHEAD PLACEMENT AT LOW SILL BULKHEAD
	1" = 8'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

INSET PLANS

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-110

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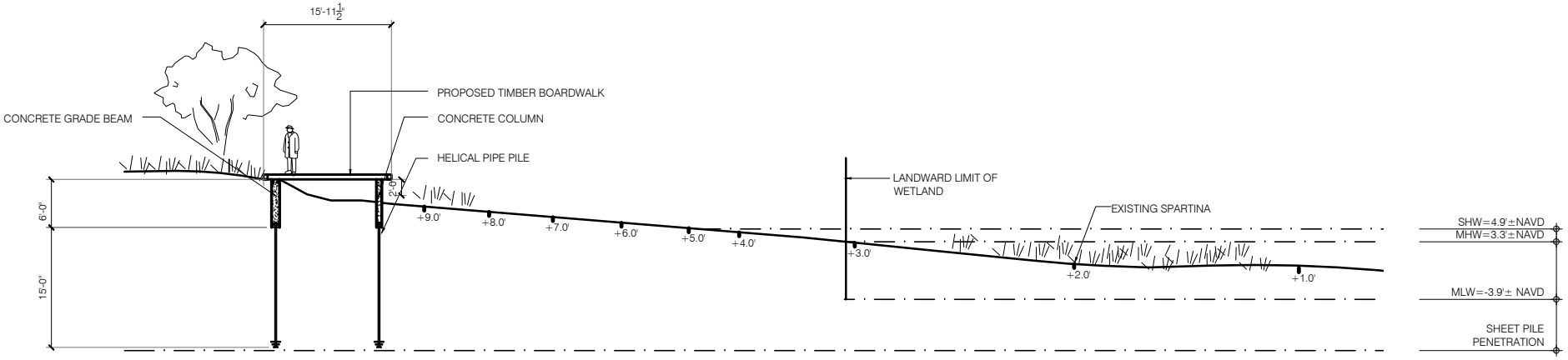
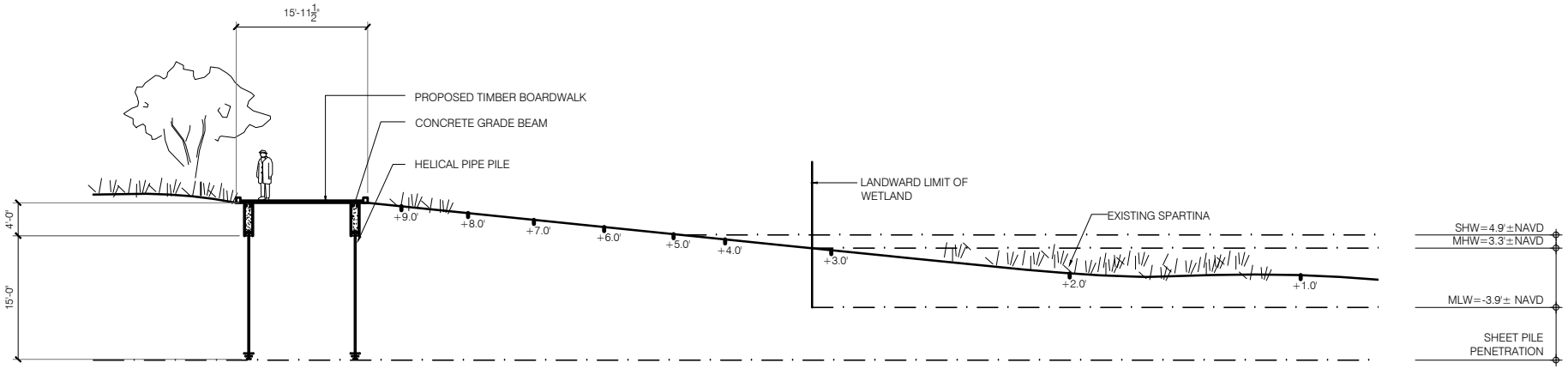


1	GARVIES POINT BEACH ELEVATED BOARDWALK SECTION
	1" = 20'-0"



2	GARVIES POINT BEACH BOARDWALK SECTION
	1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT BEACH

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-200

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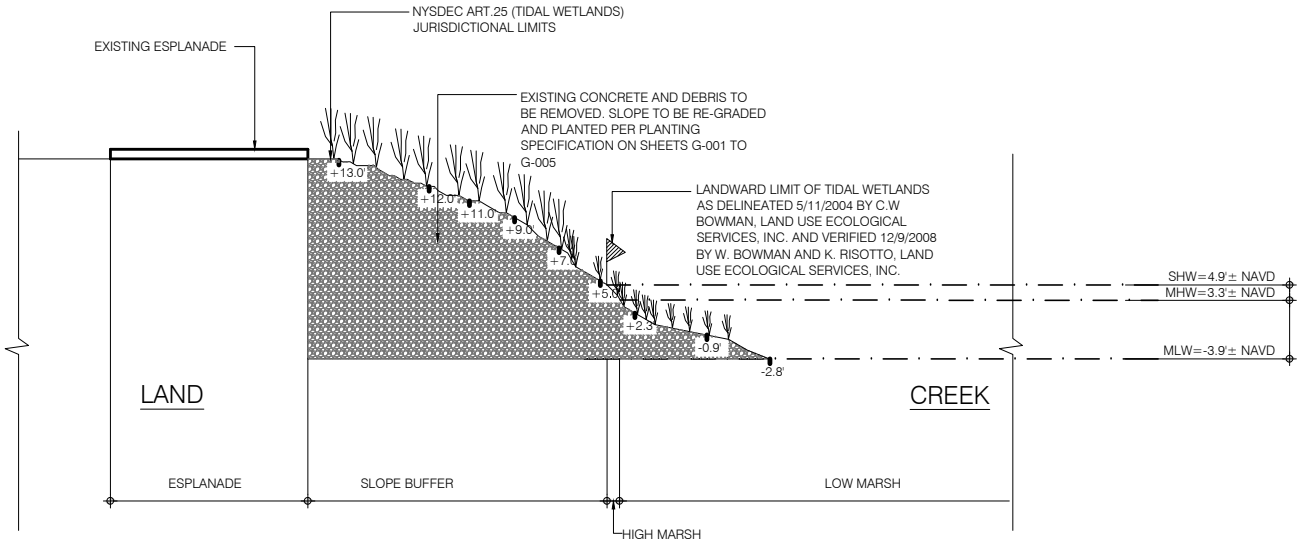

2 CAPTAIN'S COVE SECTION

1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT BEACH & CAPTAIN'S COVE

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-201

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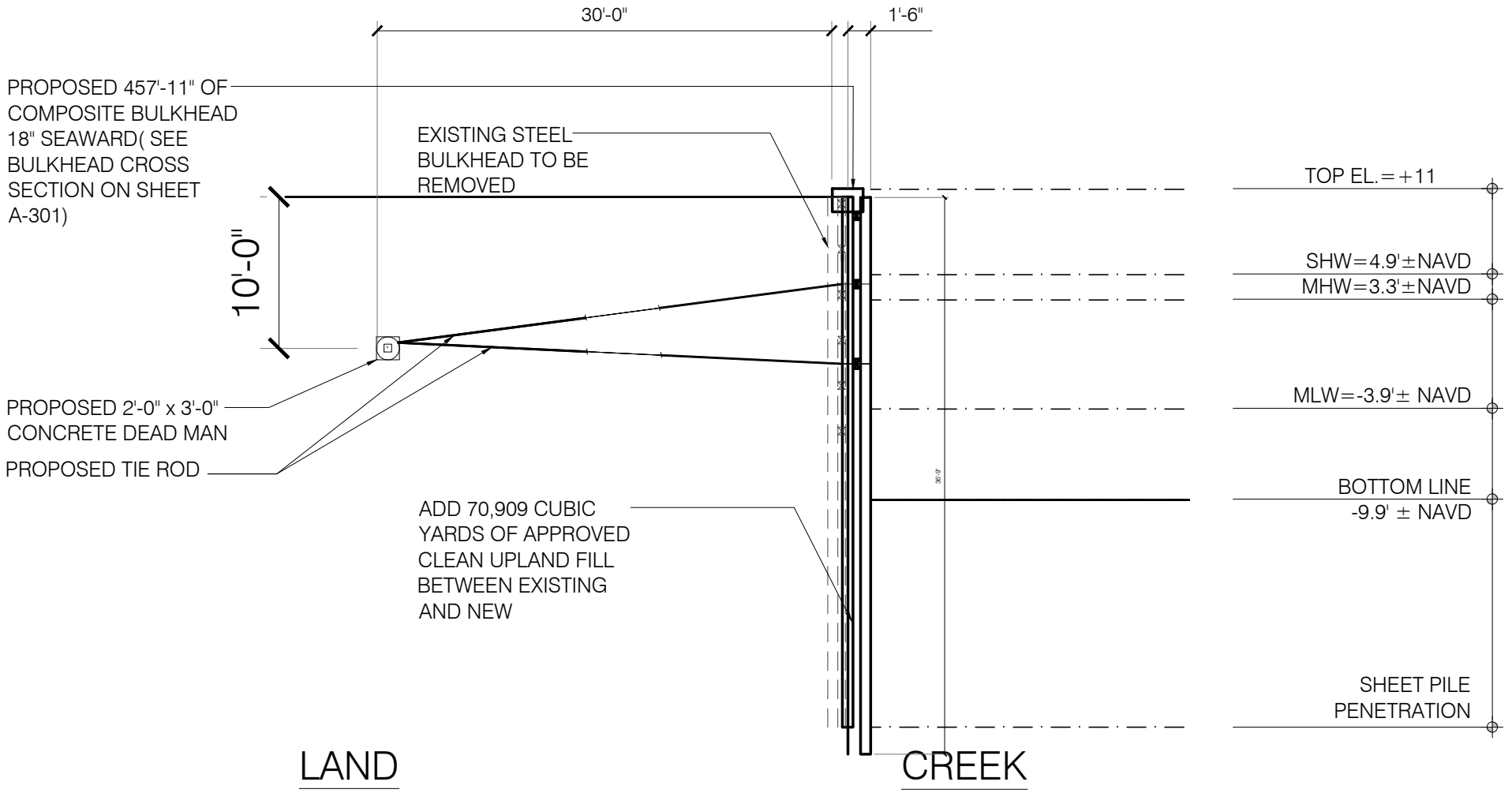

REFER TO SHEET A-111 FOR PLAN VIEW OF PROPOSED COMPOSITE BULKHEAD TO BE INSTALLED 18" SEAWARD OF EXISTING BULKHEAD TO BE REMOVED

1	GARVIES POINT BULKHEAD SECTION
	1" = 10'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

GARVIES POINT BEACH & CAPTAIN'S COVE

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-202

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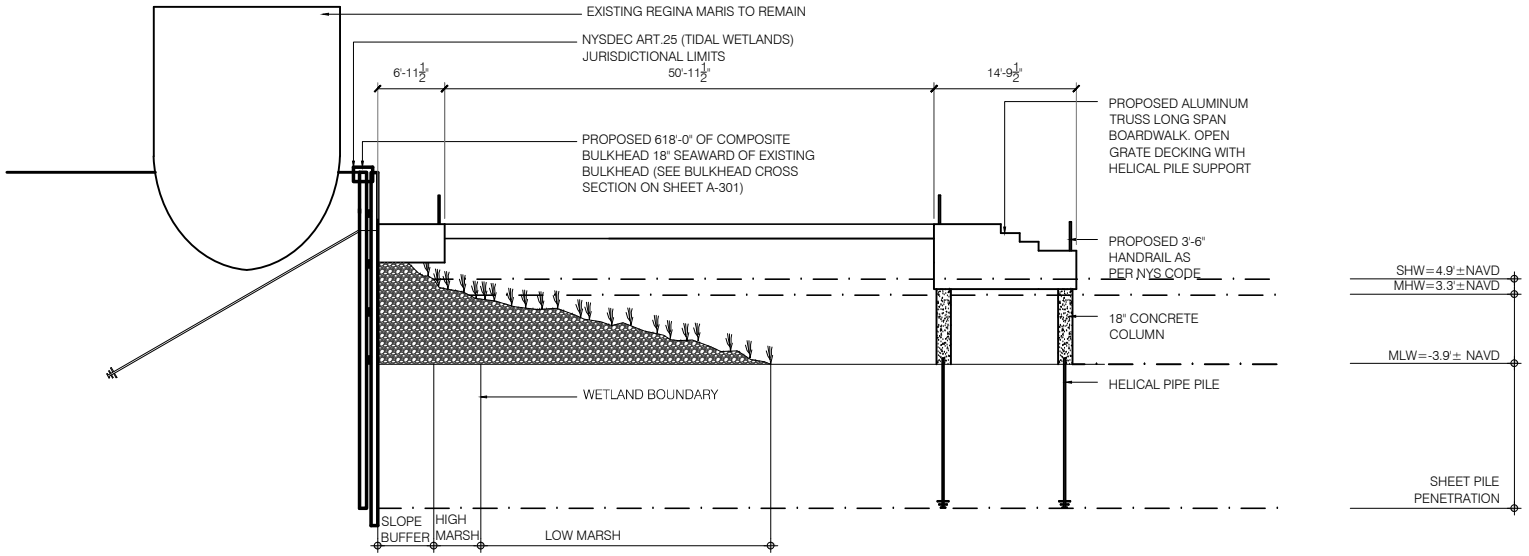
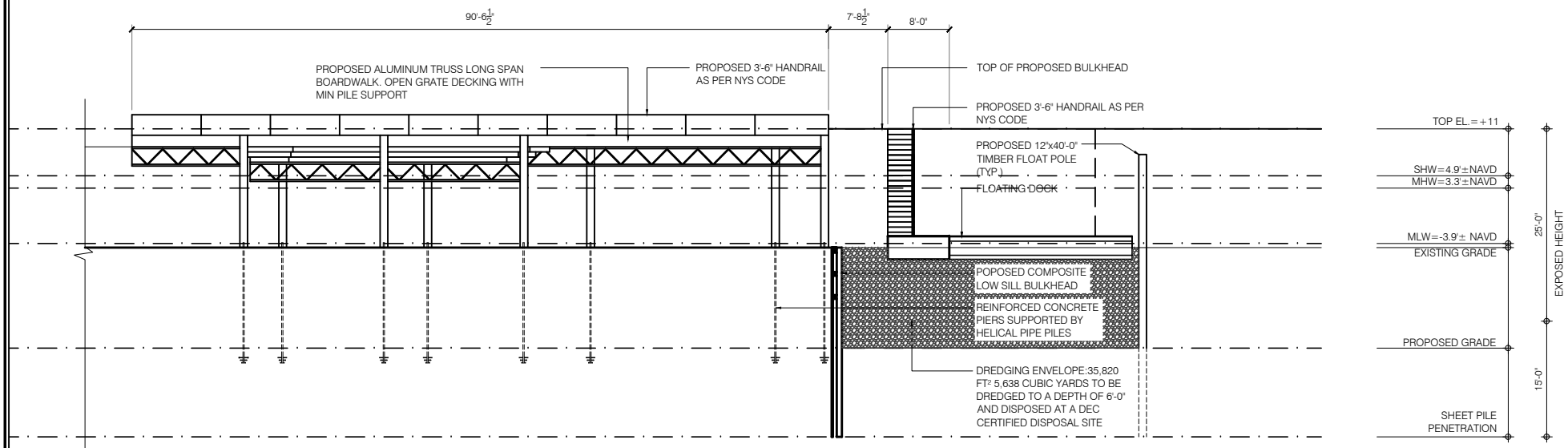


1 ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION

1" = 20'-0"



2 ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION

1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ECOLOGICAL PIER AND SMALL VESSEL MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-203

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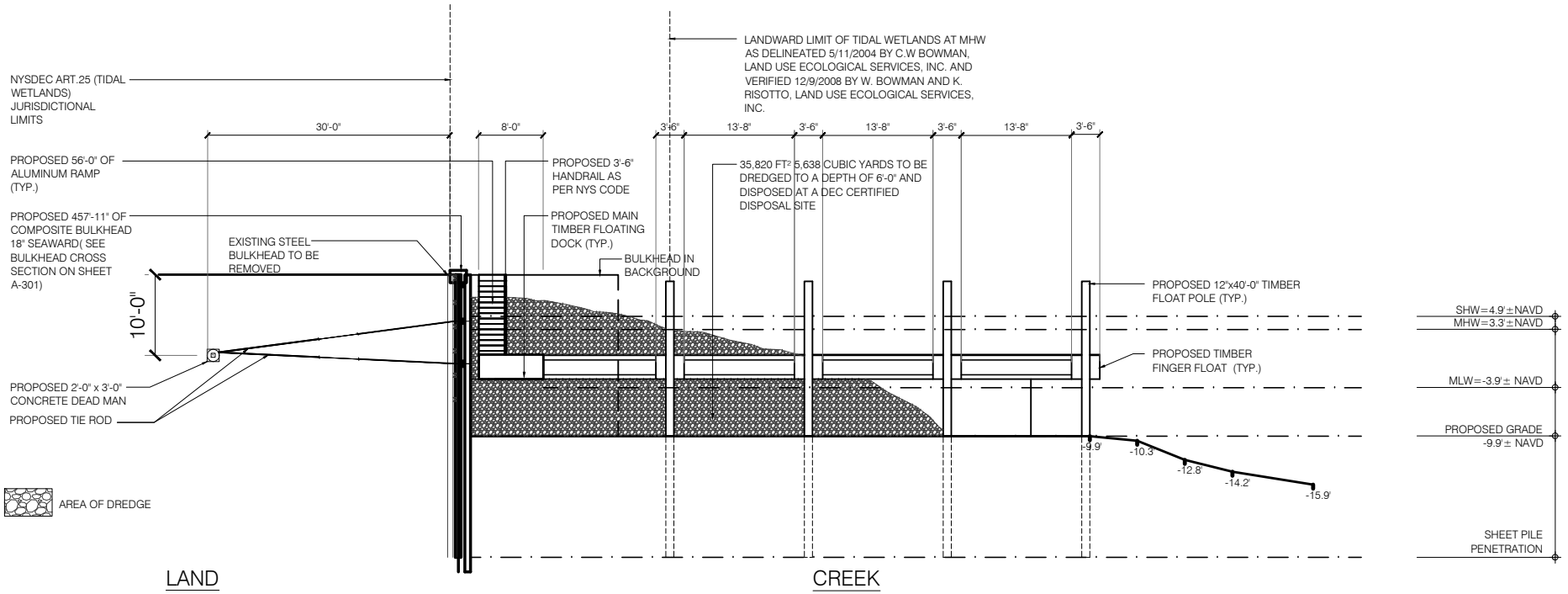
NOTES:

1. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
2. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MWH) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVIES, INC. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
3. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.



1	ECOLOGICAL PIER AND SMALL VESSEL MARINA SECTION
	1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ECOLOGICAL PIER AND SMALL VESSEL MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-204

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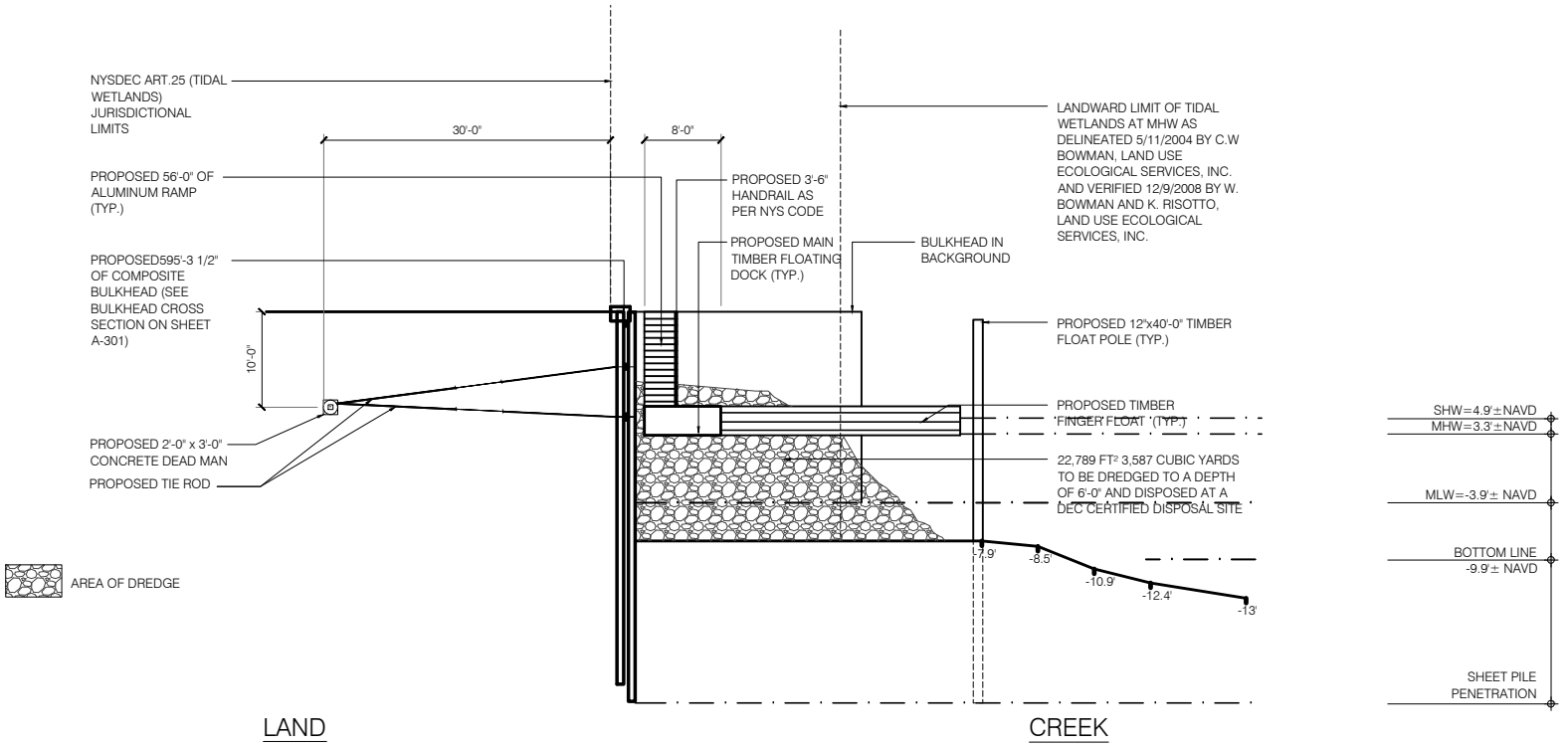
NOTES:

1. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
2. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MWH) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVIES, INC. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
3. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.



1	ANGLER'S CLUB MARINA SECTION
	1" = 20"-0"

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Phone: 631.930.5337

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ANGLER'S CLUB MARINA

CITY OF GLEN COVE

NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-205

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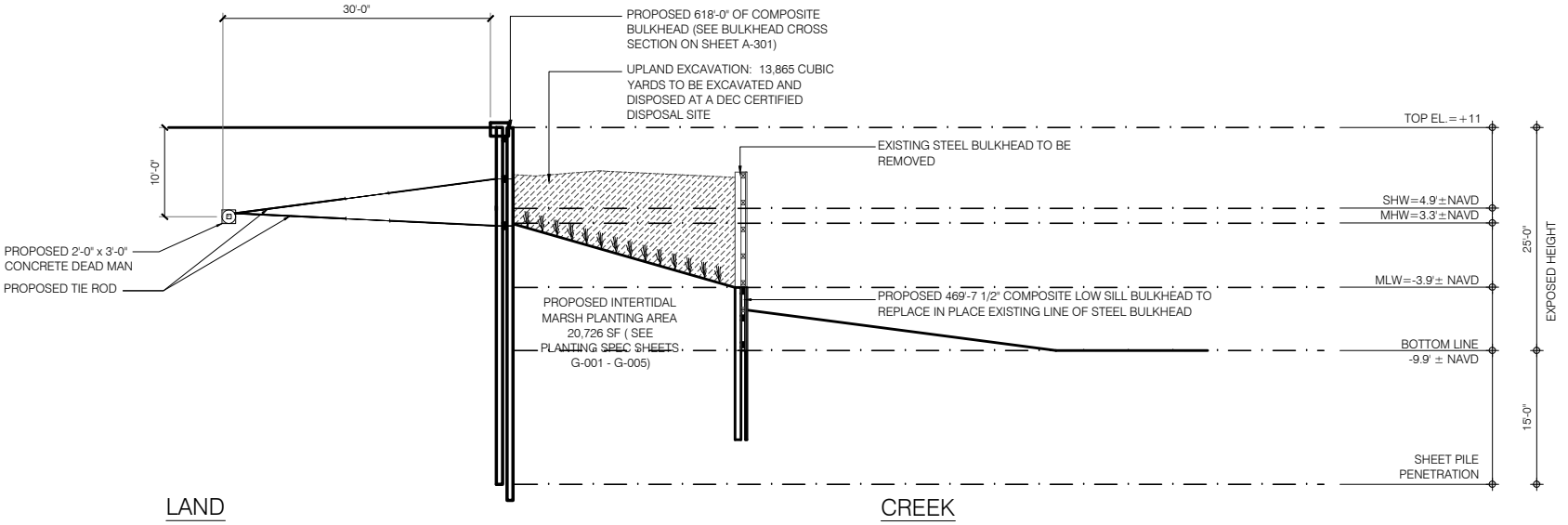
NOTES:

1. DREDGE AREAS TO HAVE A MAXIMUM SIDE SLOPE OF 1:5.
2. EXCEPT IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LINE OF MEAN HIGH WATER (MWH) AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY W.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVIES, INC. IN CAPTAIN'S COVE, LANDWARD LIMIT OF TIDAL WETLANDS IS EQUIVALENT TO THE LIMIT OF EXISTING VEGETATED INTERTIDAL/HIGH MARSH AS DELINEATED 5/11/2004 BY C.W. BOWMAN AND VERIFIED 12/9/2008 BY C.P. BOWMAN AND K. RISOTTO, LAND USE ECOLOGICAL SERVICES, INC.
3. EXISTING CONDITIONS TAKEN FROM SURVEY PREPARED BY [], DATED [], AND LAST REVISED [].
4. VERTICAL DATUM IS NAVD88. HORIZONTAL DATUM IS NAD83.



1	LOW SILL BULKHEAD
	1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

LOW SILL BULKHEAD

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-206

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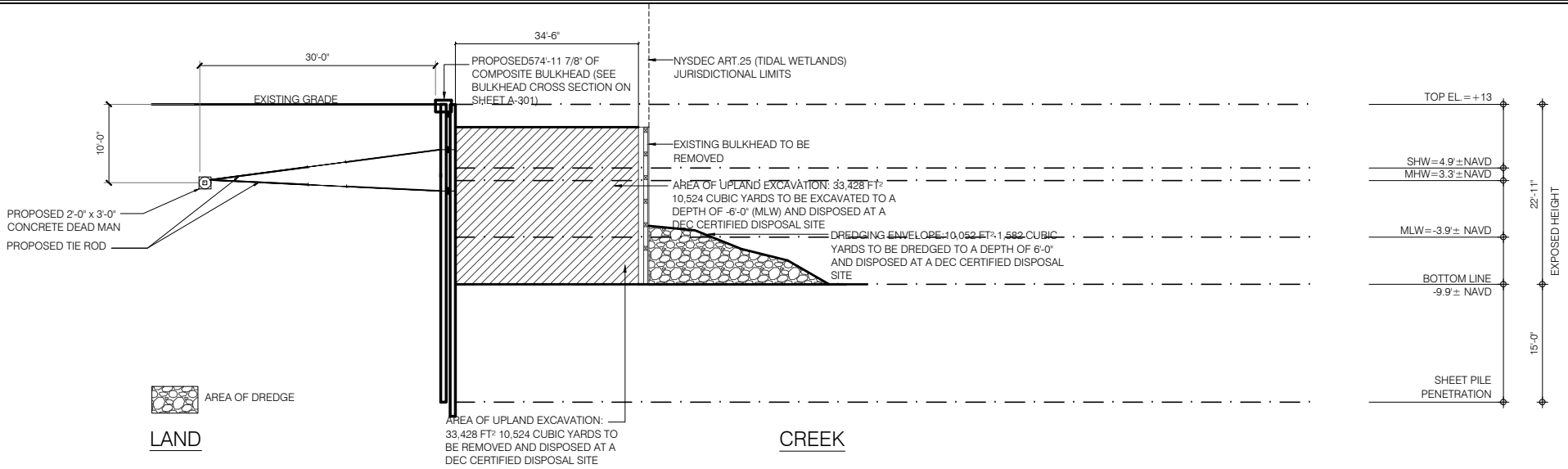
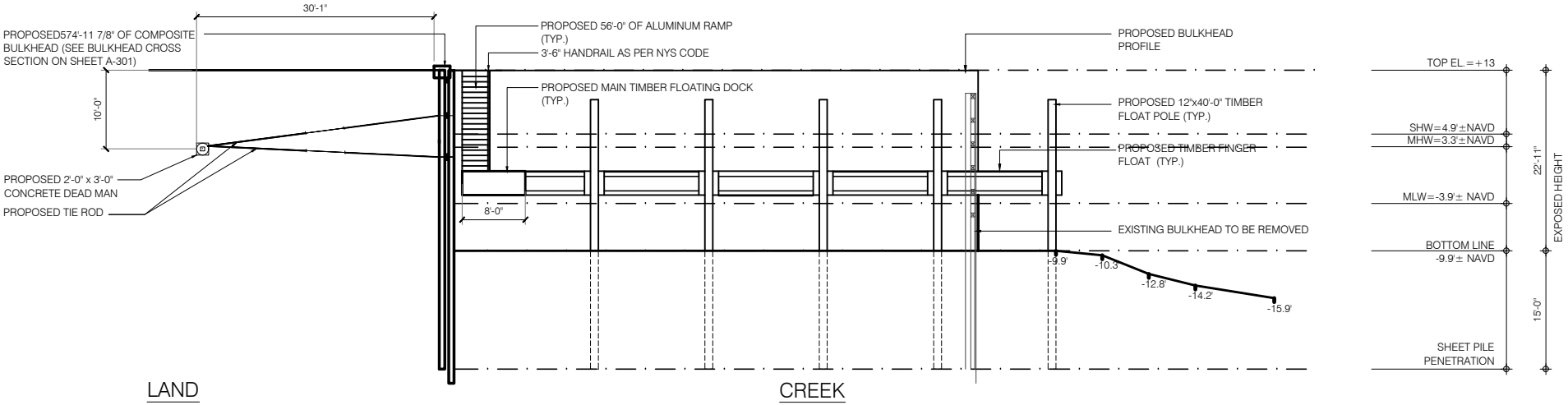


1	TRANSIENT MARINA DREDGING
	1" = 20'-0"



2	TRANSIENT MARINA DOCKS
	1" = 20'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TRANSIENT MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-207

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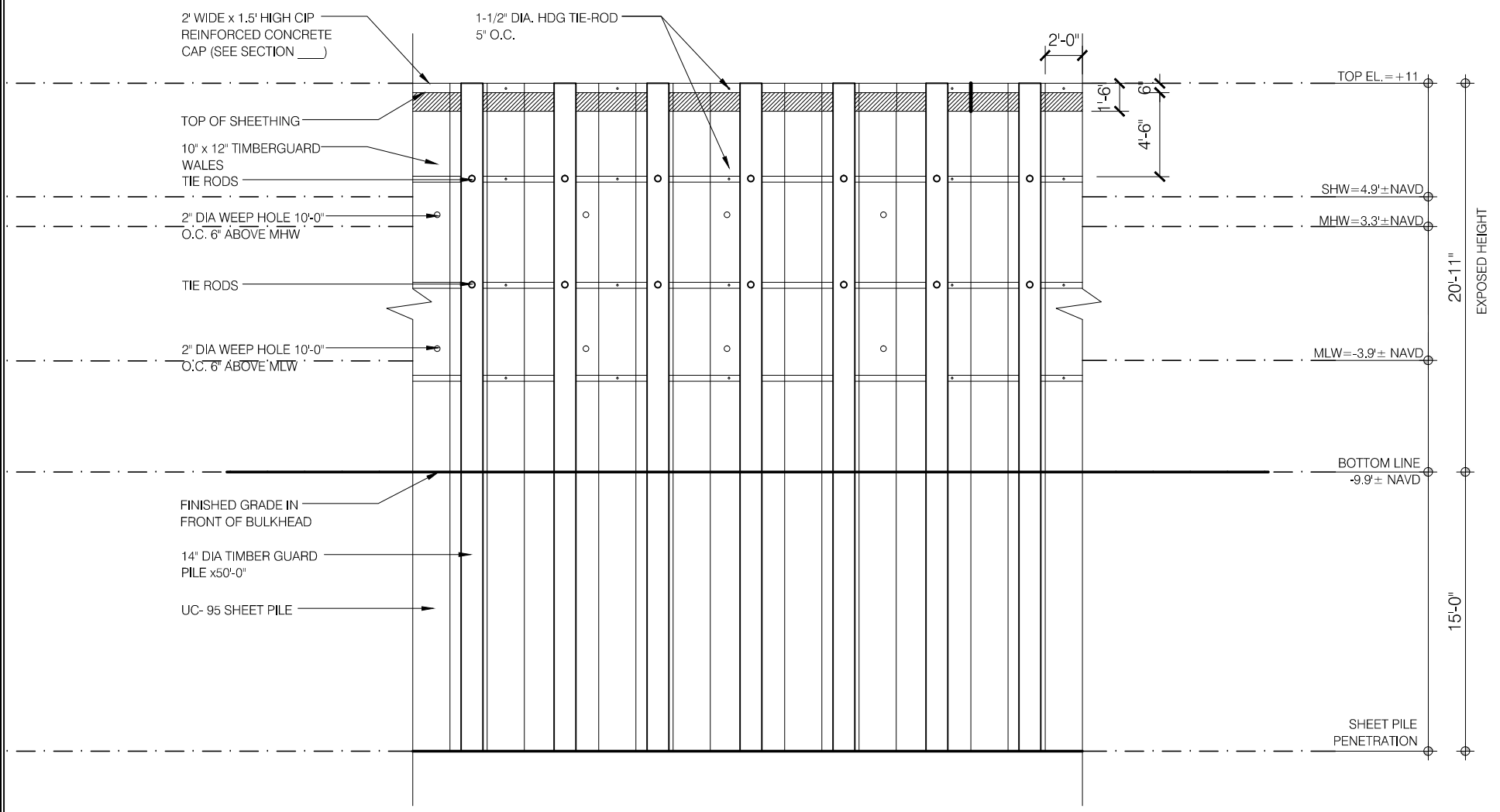

1	BULKHEAD ELEVATION WITH CONCRETE CAP
	1" = 8'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

BULKHEAD ELEVATION WITH CONCRETE CAP

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-300

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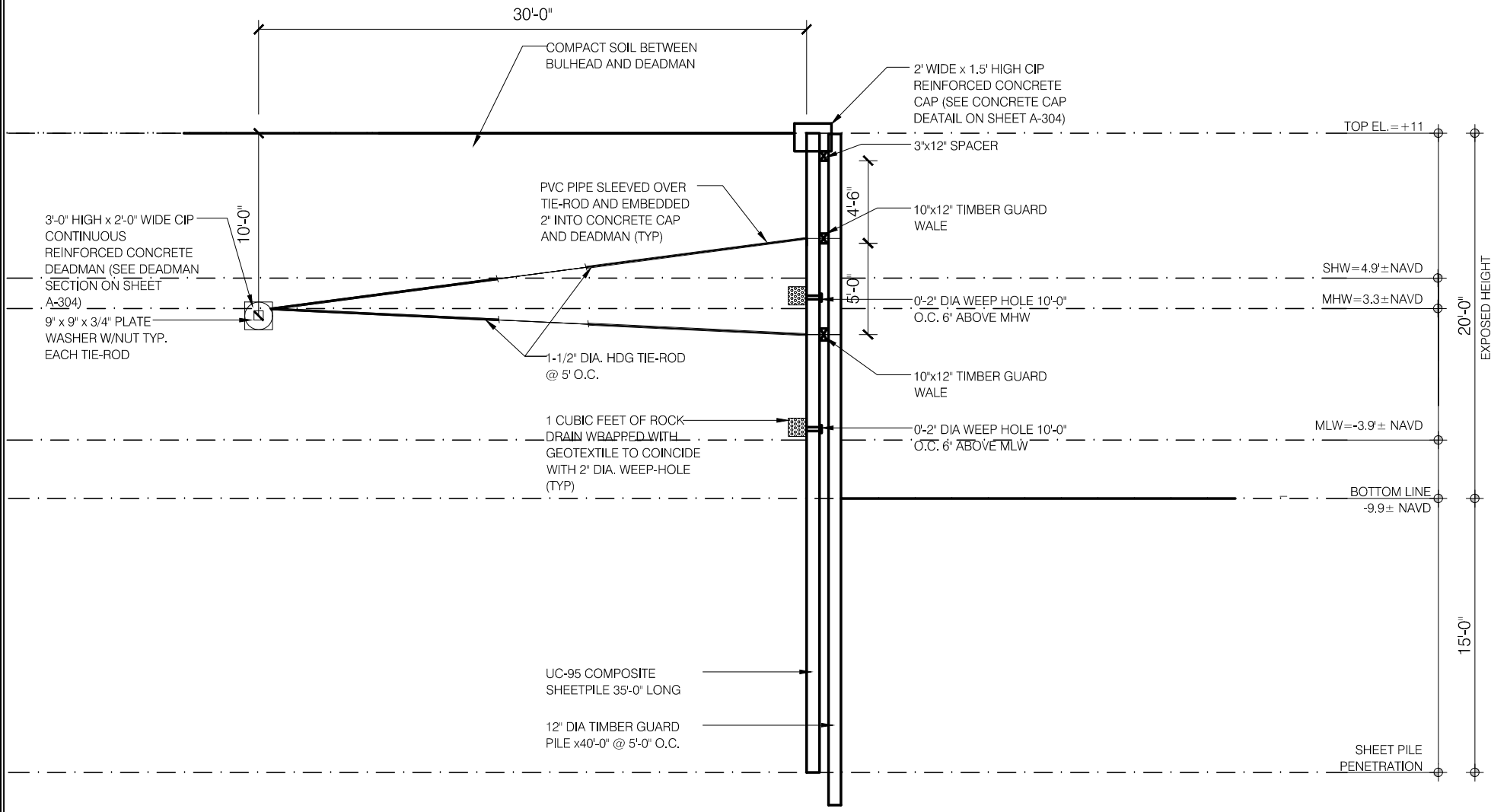

1	BULKHEAD CROSS SECTION
	1" = 8'-0"

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Phone: 631.930.5337

DRAFTING
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Cedarhurst, New York
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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TYP. BULKHEAD CROSS SECTION

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-301

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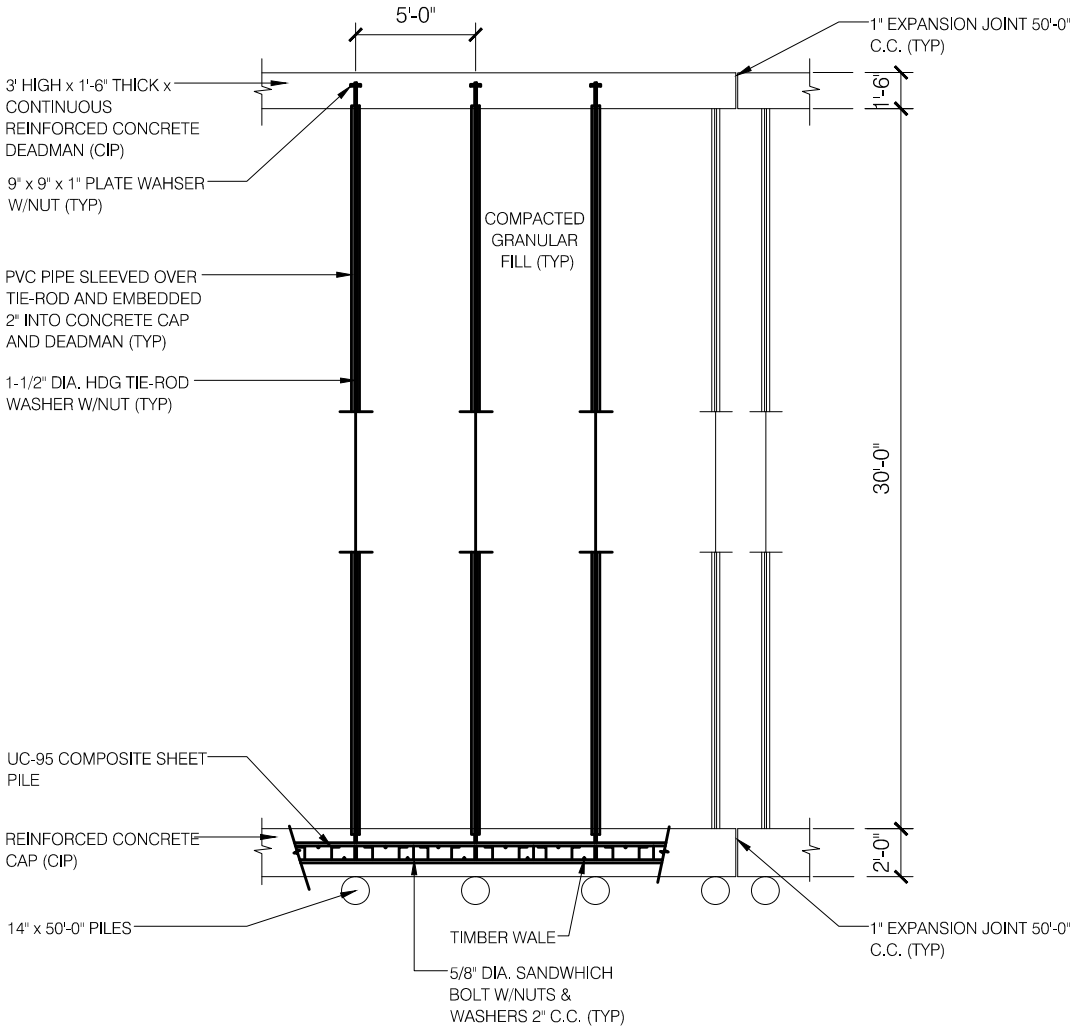

1	CONCRETE DEADMAN DETAIL
	1" = 1'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TYP. CONCRETE DEADMAN DETAIL

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-302

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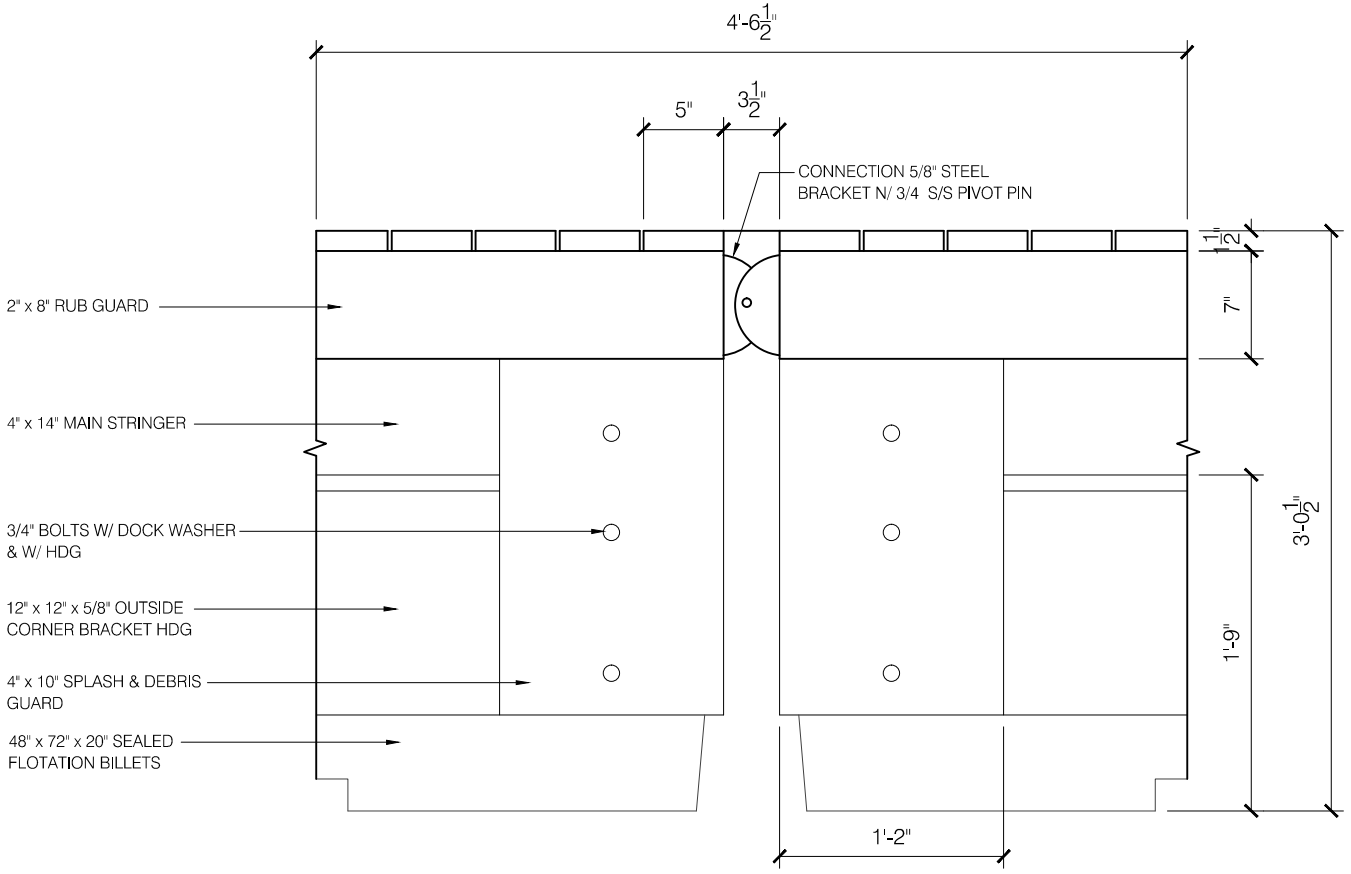

1	TYPICAL PROPOSED TIMBER FINGER FLOAT CONNECTION DETAIL
	1" = 1'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TYPICAL PROPOSED TIMBER FINGER FLOAT CONNECTION DETAIL

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

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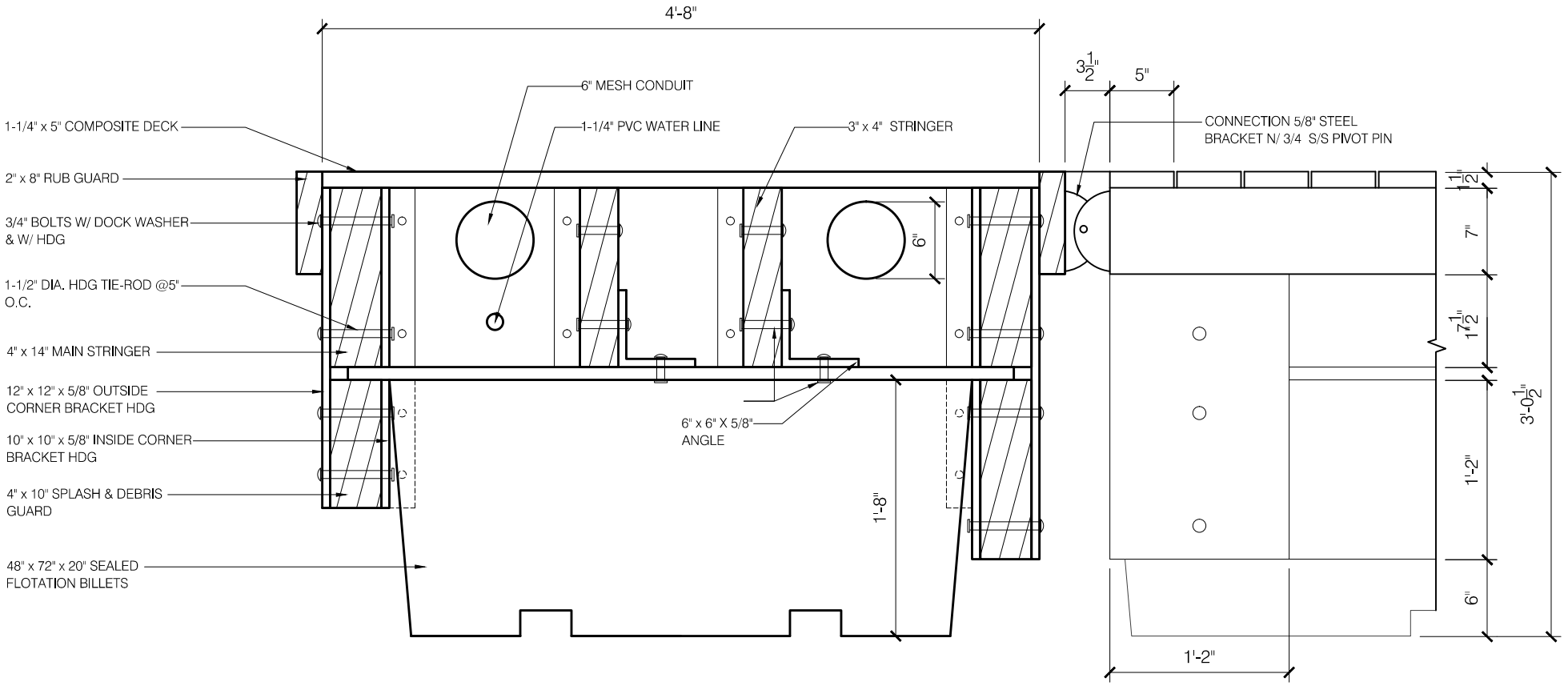

FINGER FLOAT

1	TYPICAL PROPOSED FLOATING DOCK PERPENDICULAR CONNECTION JOINT
	1" = 1'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TYPICAL PROPOSED FLOATING DOCK PERPENDICULAR CONNECTION JOINT

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-304

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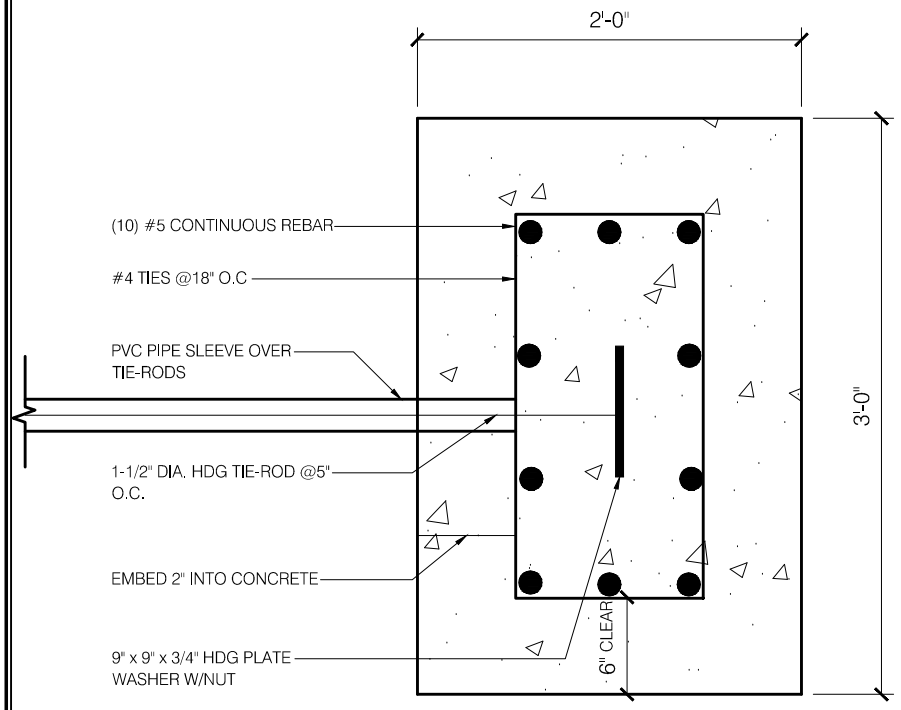

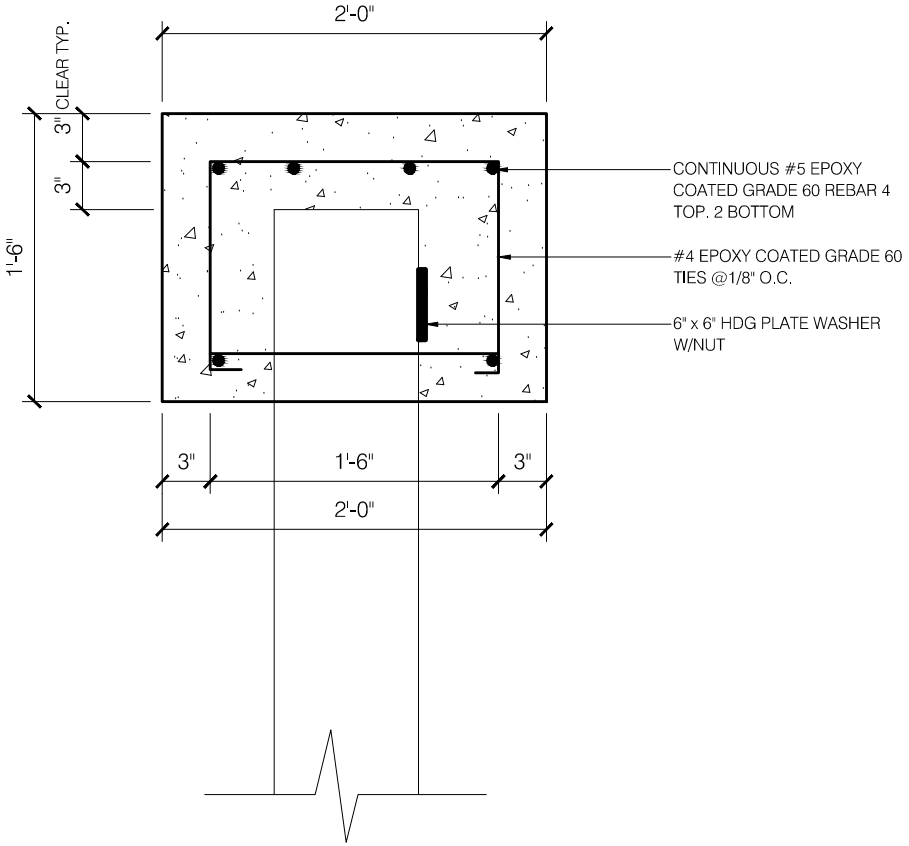

1	CONCRETE DEADMAN DETAIL	2	CONCRETE CAP DETAIL
	1" = 1'-0"		1" = 1'-0"

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Suite 25, Melville, NY 11747
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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TYP. CONCRETE DEADMAN AND CAP DETAILS

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-305

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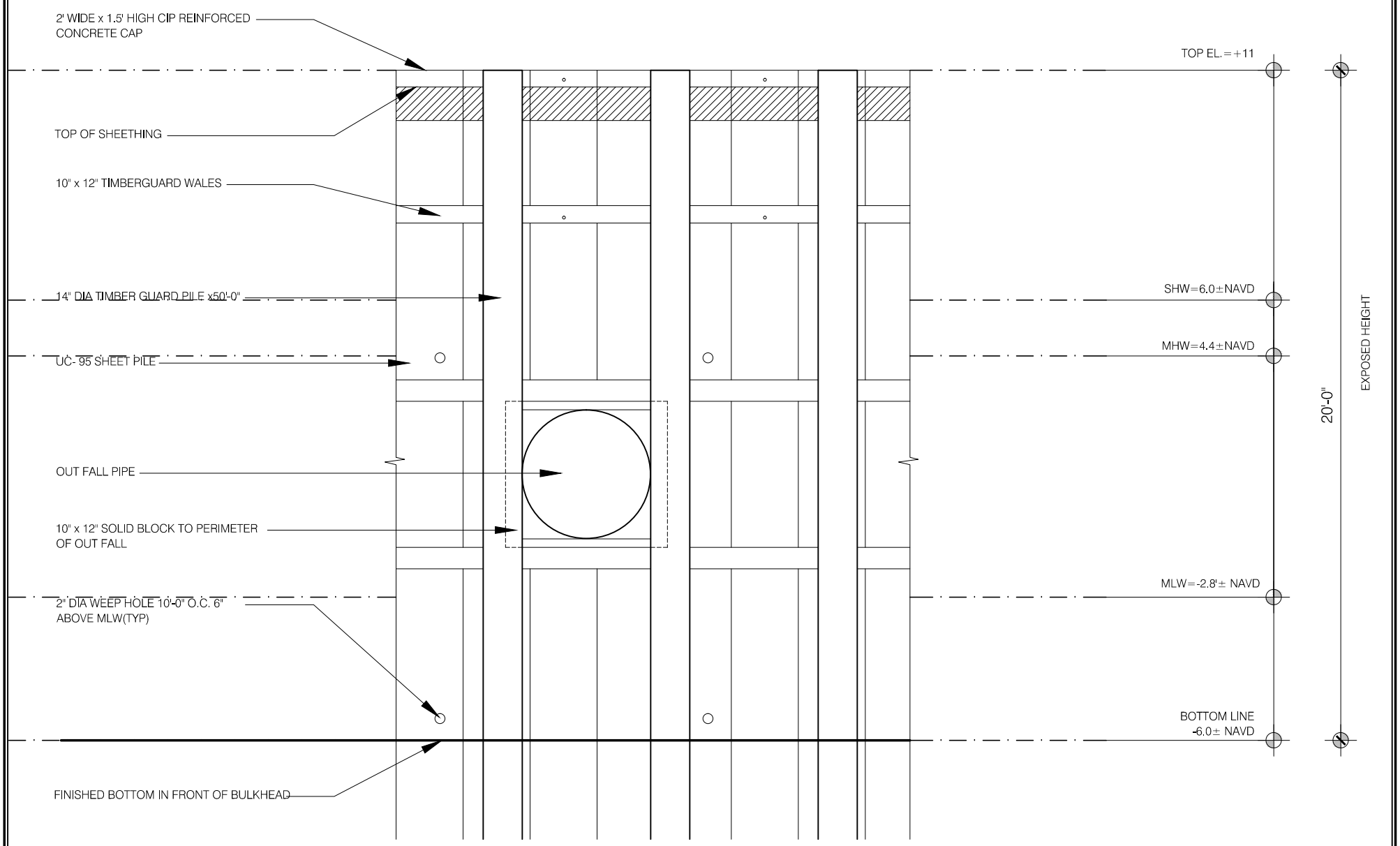

1 OUTFALL ELEVATION

1" = 4'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

OUTFALL ELEVATION

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-306

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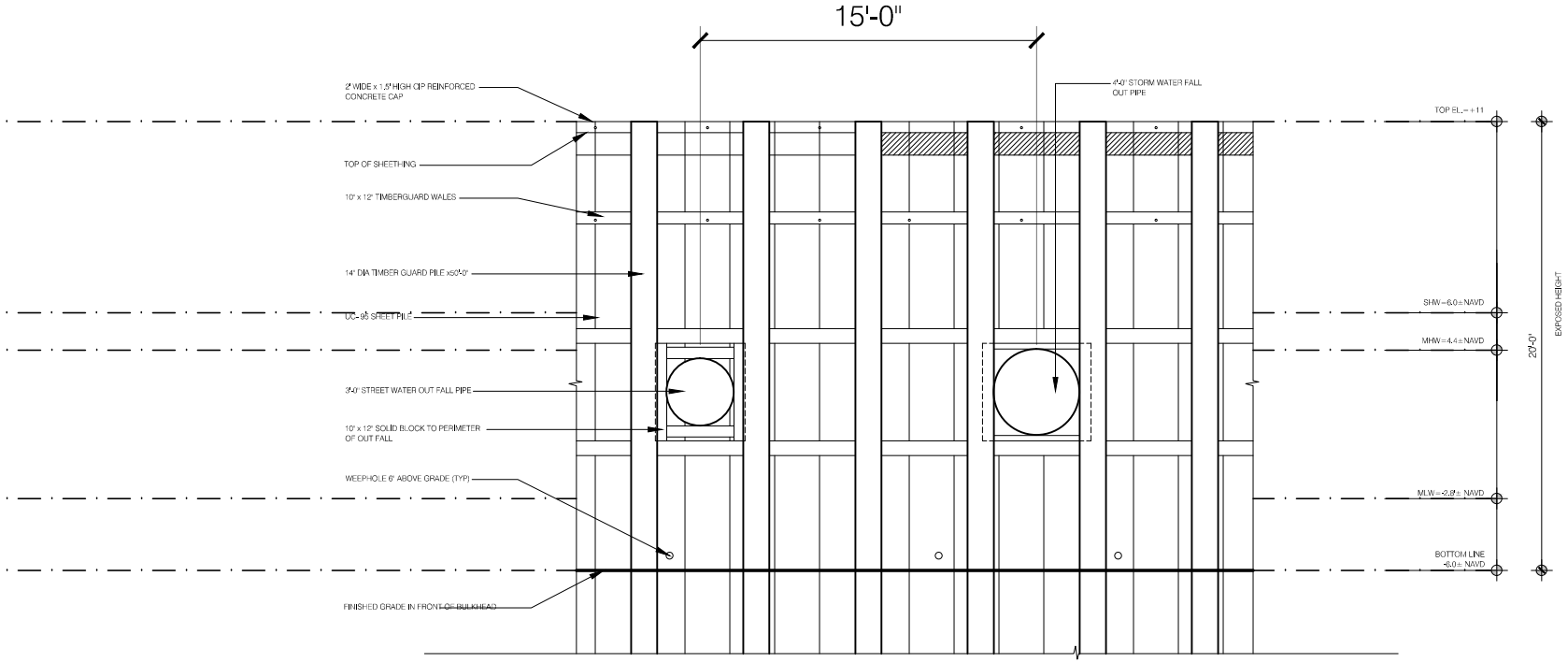

1	OUTFALL ELEVATION
	1" = 8'-0"

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Suite 25, Melville, NY 11747
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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

OUTFALL ELEVATION

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

A-307

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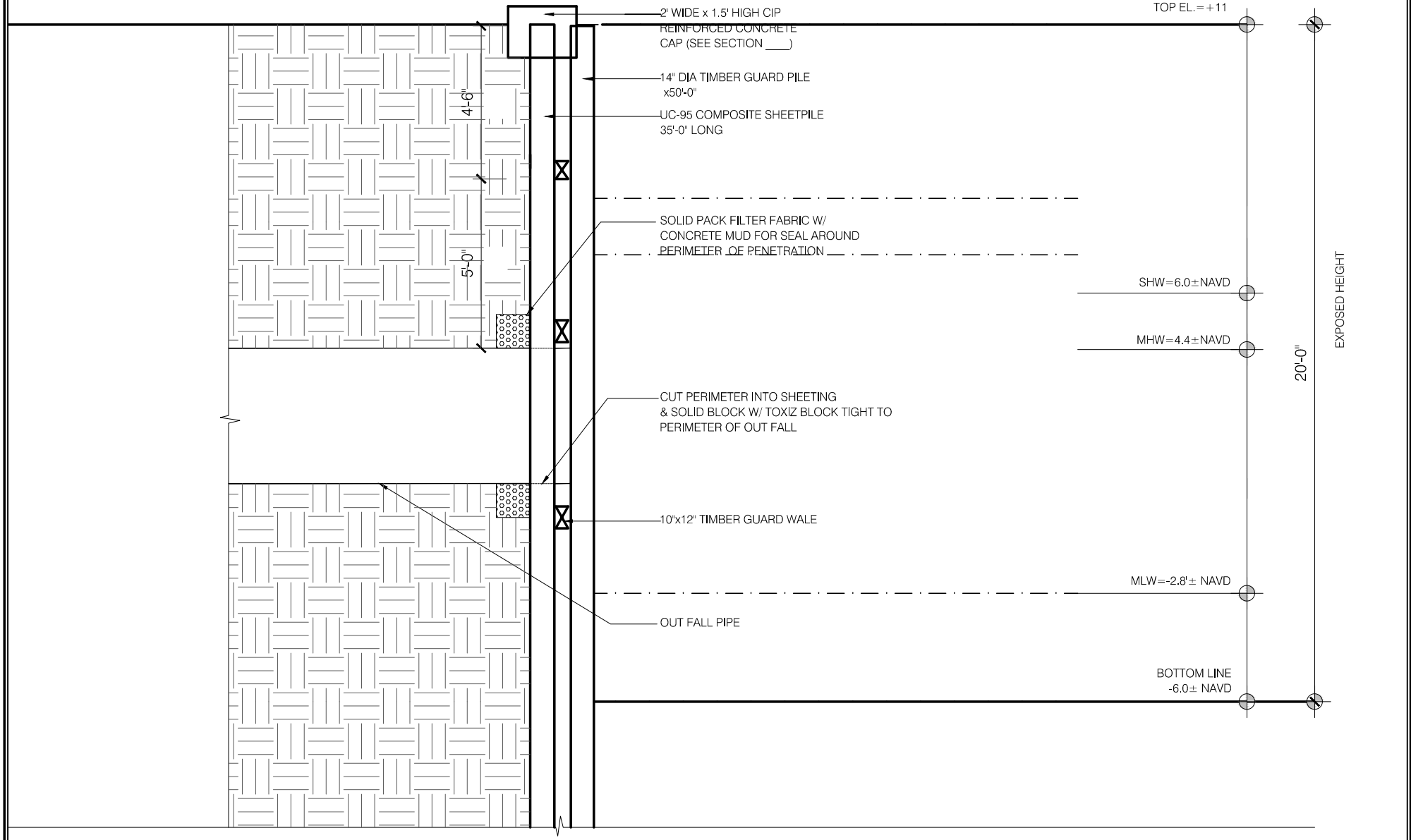

1 OUTFALL DETAIL

1" = 4'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

OUTFALL DETAIL

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

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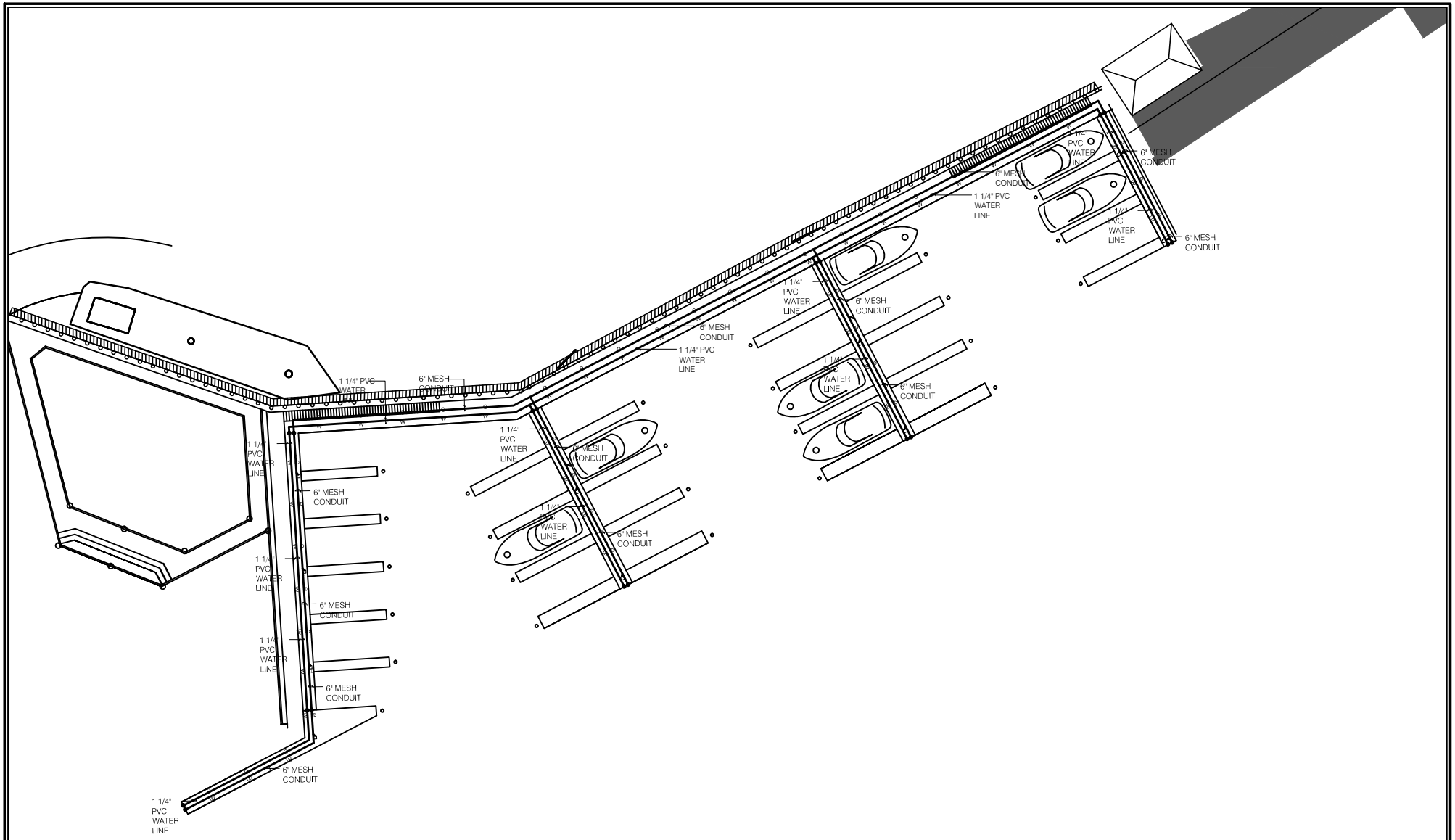

1	ECOLOGICAL PIER AND SMALL VESSEL MARINA - UTILITY DESIGN
	1" = 50'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ECOLOGICAL PIER AND SMALL VESSEL MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

E-100

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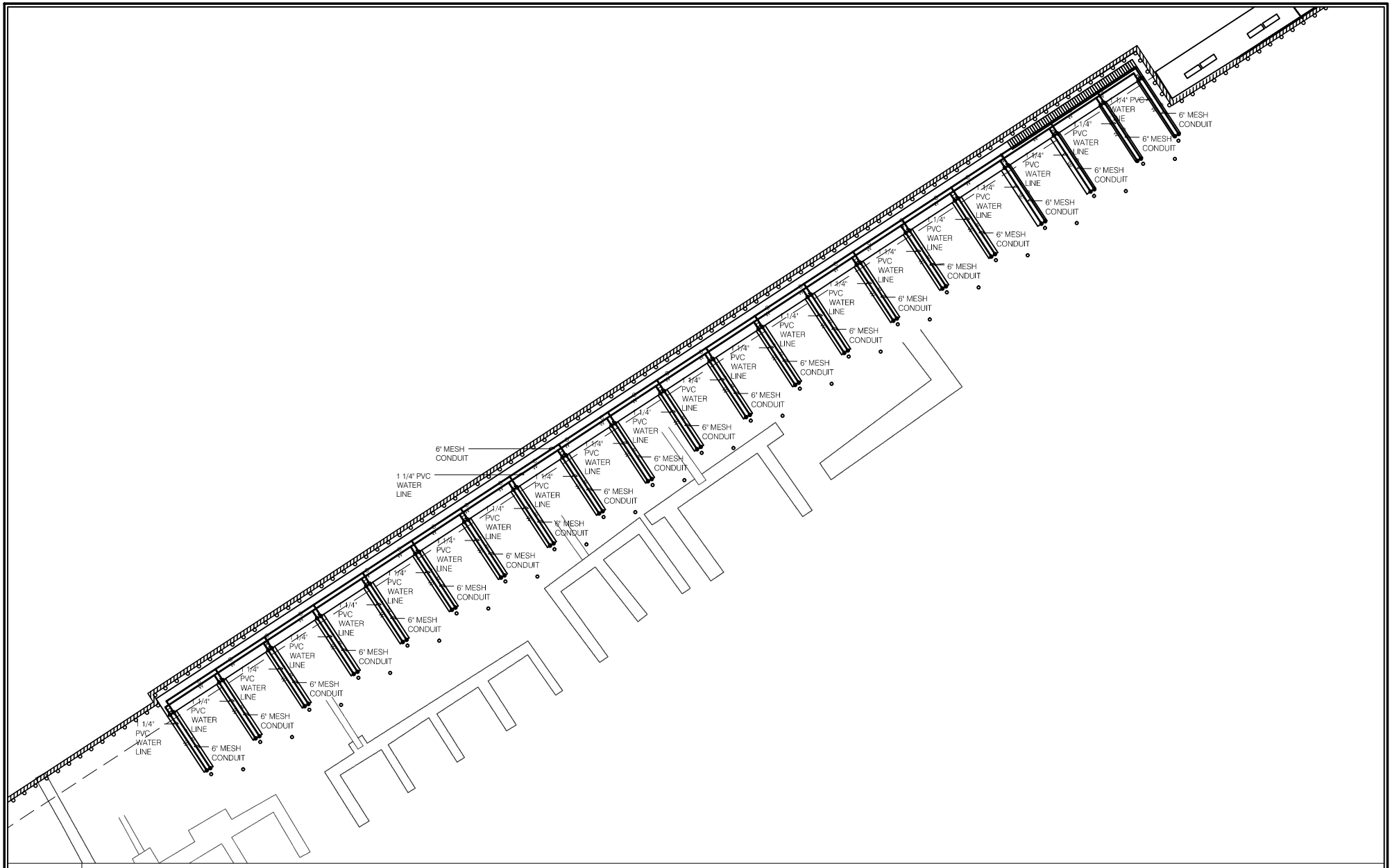

1	ANGLAR'S CLUB MARINA - UTILITY DESIGN PLAN
	1" = 50'-0"

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Phone: 631.930.5337

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

ANGLAR'S CLUB MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

E-101

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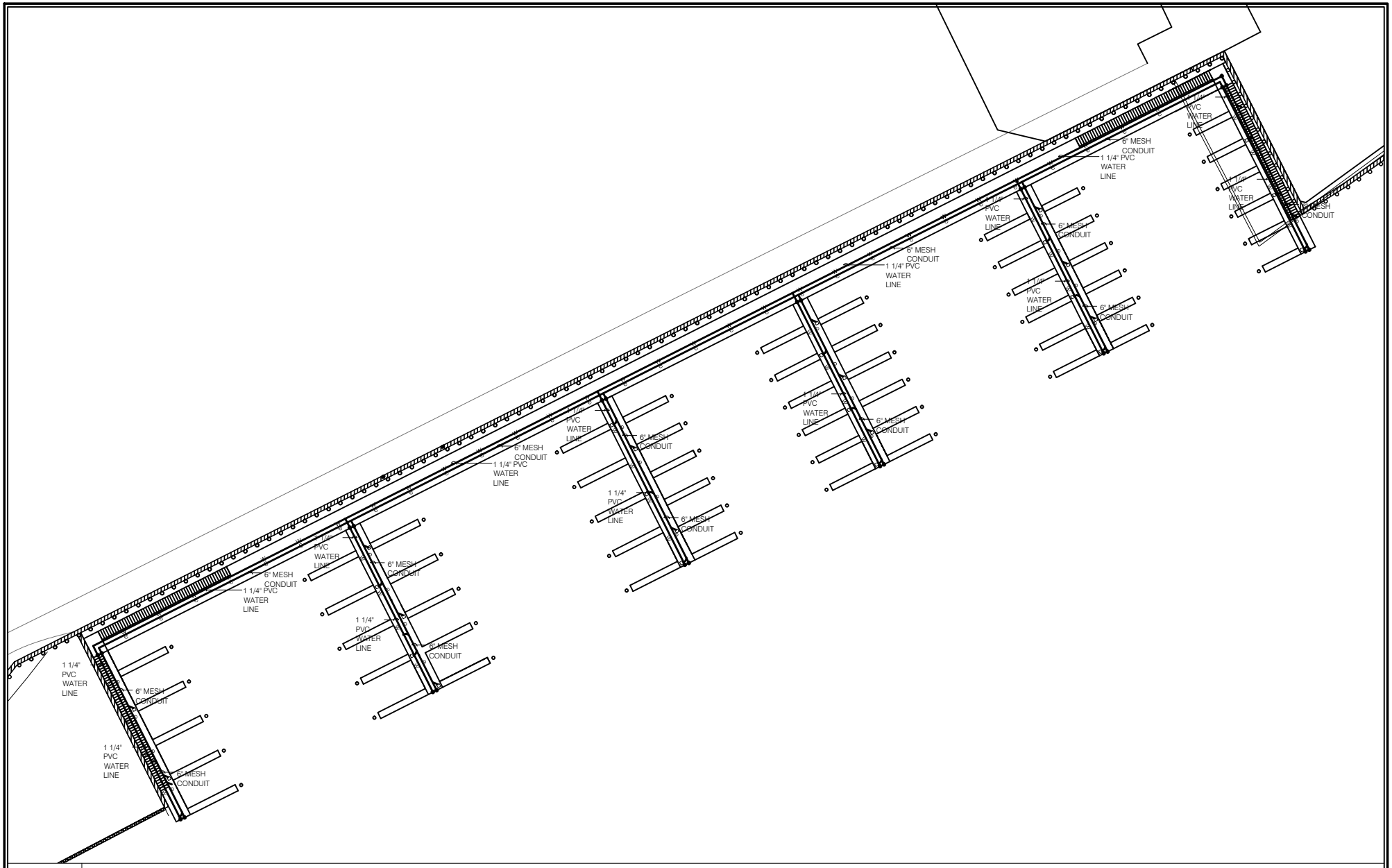

1	TRANSIENT MARINA - UTILITY DESIGN PLAN
	1" = 50'-0"

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GLEN COVE CREEK WATERFRONT REDEVELOPMENT PROJECT

TRANSIENT MARINA

CITY OF GLEN COVE
NASSAU COUNTY, NEW YORK

SHEET NUMBER

E-102

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Appendix B – Radiation Monitoring Plan for Glen Isle Waterfront Development (PW Grosser, December 2013)

GLEN ISLE WATERFRONT REDEVELOPMENT
GLEN COVE, NEW YORK

RADIATION MONITORING PLAN

PREPARED FOR:

RXR-Glen Isle Partners, LLC
625 RXR Plaza
Uniondale, NY 11556

PREPARED BY:

P.W. Grosser Consulting, Inc.
630 Johnson Avenue, Suite 7
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James P. Rhodes, CPG, Senior Vice President jimr@pwgrosser.com
Derek Ersbak, Project Manager dereke@pwgrosser.com

PWGC Project Number: RGI 1304

DECEMBER 2013

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LIST OF ACRONYMS

cpm	Counts per Minute
EPA	United States Environmental Protection Agency
FS	Feasibility Study
HPFT	Health Physics Field Technician
HPSO	Health Physics Safety Officer
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDC	Minimum Detectable Concentrations
m/s	Meters per Second
NaI	Sodium Iodide
NYSDEC	New York State Department of Environmental Conservation
pCi/g	Picocuries per Gram
RMP	Radiation Monitoring Plan
RI	Remedial Investigation
SMP	Site Management Plan

PROJECT: Glen Isle Waterfront Redevelopment Project. The project will include an investigation to document current subsurface condition at the Glen Isle Waterfront Redevelopment site for the purposes of characterizing the site for subsequent insurance coverage and as a condition of closing on the property.

This form indicates the review and acceptance of the document listed below by a Certified Health Physicist.

THE FOLLOWING DOCUMENT(S) HAVE BEEN REVIEWED AND ACCEPTED:

- Radiation Monitoring Plan – Glen Isle Waterfront Redevelopment

PREPARED FOR:
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

PREPARED ON BEHALF OF
RXR-Glen Isle Partners, LLC
625 RXR Plaza
Uniondale, New York 11556

PREPARED BY:
P.W. Grosser Consulting, Inc.
630 Johnson Avenue, Suite 7
Bohemia, New York 11716

REVIEWED & ACCEPTED BY:
Dennis M. Quinn, CHP
3 Shadow Lane
Hopewell Junction, New York 12533

Dennis M. Quinn 12/13/2013

Dennis M. Quinn, CHP Date

1.0 INTRODUCTION

This Radiation Monitoring Plan (RMP) has been prepared in accordance with the *Multi-Agency Radiation Survey and Site Investigation Manual, Revision 1* (EPA, August 2000 and June 2001 updates) (MARSSIM), and with the Site Management Plans (SMP) for the Glen Cove Ferry Terminal and Li Tungsten Sites in Glen Cove, NY: *Site Management Plan, Captain's Cove Site* (Dvirka and Bartilucci, June 2010) and *Site Management Plan for Li Tungsten Site, Glen Cove, NY* (Dvirka and Bartilucci, May 2012). These SMPs provide additional background information, site descriptions, redevelopment plans and soil management specifications for each of the Sites.

This RMP will be implemented during a Pre-Construction Confirmatory Data Gap Subsurface Investigation at the Glen Isle Waterfront Redevelopment Site by the Contractor's Health Physics Field Technician (HPFT) in coordination with the Consultant's Field Engineer. All parties entering the site, including representatives of the United States Environmental Protection Agency (EPA), New York State Department of Environmental Conservation (NYSDEC) and or the City of Glen Cove, are required to comply with this RMP. The RMP may be revised based upon radiation levels measured in the field after earthwork or excavation activities have been initiated. Any proposed changes must be reviewed and approved by the Consultant Health Physics Safety Officer (HPSO) (or their designee) and the NYSDEC.

The NYSDEC will be notified at a minimum of 15 days prior to earthwork or excavation activities.

1.1 Purpose and Scope

In accordance with past remedial efforts summarized in the SMPs, radioactive soils were previously removed from areas on and/or adjacent to the Captain's Cove and Li Tungsten Sites and the excavations were backfilled with clean soil. The purpose of this RMP is to address radiation monitoring activities to be performed during the - Construction Confirmatory Data Gap Subsurface Investigation which include test pits, geotechnical borings, and subsurface soil and groundwater sampling. Specifically, soil disturbed during investigative activities will be monitored for radiation to:

- Segregate soil/waste that may contain radioactive contamination; and
- Protect onsite workers from potential exposure to dangerous levels of radiation.

2.0 RADIATION MONITORING PLAN

The monitoring protocol specified in subsequent sections includes the identification of minimum qualifications for the Contractor's HPFT, selection of appropriate radiation monitoring instruments, instrument calibration, radiation monitoring methodology and establishing background radiation levels at both the Captain's Cove and Li Tungsten Sites. Any radioactive waste identified as a result of monitoring will be segregated and managed by the Contractor as described in the SMPs.

2.1 Health Physics Field Technician Qualifications

Radiation monitoring will be performed by the Contractor's HPFT. The Contractor's HPFT qualifications will be reviewed by the Consultant. At a minimum, the candidate HPFT will have successfully completed Radiation Worker Training, have 2 years of experience performing field gamma radiation monitoring, have experience with the monitoring instruments specified in Section 2.2 (including routine operation and performing instrument field

checks), have demonstrated experience in measuring site background radiation levels and have experience with the collection, handling and shipment of samples for radiological analyses.

2.2 Selection of Radiation Monitoring Instrument

The selection of radiation monitoring equipment was based on the type of radiation in the Li Tungsten mill tailings previously located on and/or adjacent to the Sites. The mill tailings, which contained uranium and thorium, were generated during mineral processing of tungsten ores at the Li Tungsten Site. The tailings also contained daughter products, including isotopes of thorium, uranium, radium, and several other products of the natural decay chains. These radioactive elements produce a mixture of alpha, beta, and gamma radiation. Although alpha and beta radiations are produced by the radionuclides in soil that was present on and/or adjacent to the Sites, these radiations have low penetrating ability, and they are shielded by the first centimeter of soil. This low penetrating ability for alpha and beta cause these radiations to be very difficult to detect by direct measurement. Accordingly, radiation monitoring equipment capable of detecting gamma radiation (a highly penetrating radiation) is specified. For this purpose, a Ludlum™ Model 2221 count-rate meter and scaler (or equivalent) equipped with a 100 cm^3 (2" x 2") sodium iodide (NaI) detector for walkover surveys and a Ludlum™ Model 3 or 12 count-rate meter and scaler (or equivalent) equipped with a 44-9 frisker probe for screening of core samples are specified.

2.3 Radiation Instrument Calibration and Operation

The radiation rate meter/scaler will be calibrated by the supplier in accordance with the instrument manufacturer's specifications. A source traceable to the National Institute for Standards and Technology (NIST) will be used for calibration. This calibration, in combination with manufacturer developed energy response curves, will be used to characterize instrument response. The response of the meter will be evaluated with a check source daily before and after each survey. Source check results will be recorded in the field log book. All supplier calibration records and source check results will be maintained onsite throughout the duration of redevelopment activities. During monitoring, the count-rate meter will be operated in the audio mode to aid in detecting radiation count rate changes above 2-times background. The serial numbers and calibration dates will be recorded in the results report.

2.4 Establishing Site Background

PWGC has established a background radiation level in counts per minute (cpm) in accordance with PWGC's Radiation Monitoring Plan for Captain's Cove and Li Tungsten dated March 2013.

On May 8, 2013, PWGC mobilized to the site to perform test pits in the area of the bulkhead on the Captain's Cove site to inspect current condition of the bulkhead tiebacks. Prior to performing work onsite, a gamma survey for background determination was performed at the wildlife preserve that borders the property in the up-gradient direction. The preserve was found to have similar geologic properties and soil types similar to Li Tungsten and Captain's Cove sites.

A Ludlum™ Model 2221 count-rate meter and scaler equipped with a 100 cm^3 (2" x 2") sodium iodide (NaI) detector was utilized. The meter was standardized utilizing the accompanying cesium-137 check source (5µCi). In order to establish background, 20 readings (one minute static counts) were collected from the Gravies' Point

Preserve, Trail 5 over an approximate area of one acre. Based upon the readings, a range of 6,390 to 7,915 counts per minute and a mean of 7,324 cpm has been established as background. Two times background, 14,648 counts per minute, will be utilized as a decision factor for soil screening purposes during the investigation.

Prior to commencing work, a background check will be performed. The background check will include performing one minute static counts at three locations in the Garvies' Point Preserve. The background check should be within 10% of the previous determined value. If it is greater than 10%, the full site background determination will be performed.

In addition to the overall site background, a one minute static count will be taken prior to the start of work at each excavation location. This reading will be recorded.

2.5 Radiological Walkover Survey/Scan

Prior to the installation of soil borings and test pits on the Li Tungsten and Captain's Cove Sites a radiological walkover survey/scan will be completed. The survey will consist of screening of a discrete area centered around the proposed soil boring or test pit and will measure 10 feet by ten feet for soil borings and twenty feet by twenty feet for test pits. The protocol is detailed below.

At each survey location a 100% scan will be performed using a Ludlum™ Model 2221 count-rate meter and scaler (or equivalent) equipped with a 100 cm^3 (2" x 2") sodium iodide (NaI) detector. 100% scan is defined as walking at 0.5 meters/second and moving the probe in a serpentine motion. The technician will follow one meter-wide lanes over each entire survey area. In addition, a check of areas with elevated count rates with a collimated 2" x 2" NaI detector may be necessary to locate the source of the high readings, if any. The walkover survey for each survey area will be recorded on a radiological survey form.

2.5 Radiation Monitoring Methodology

The following radiation monitoring protocol was developed to identify radioactive material that may be encountered during the investigation.

2.5.1 Personal Protective Equipment

Personal protective equipment will include the use of Level D personal protective equipment (PPE) consisting of steel toe boots, hard hats, work clothes, and nitrile gloves. Tyveks will be used if soil is discovered above two times background.

2.5.2 Test Pit Excavation Screening

At each location a backhoe or equivalent will be utilized to perform the test pit. Prior to the excavation, 10-mil polyethylene sheeting, sufficiently large to hold the anticipated excavated soil will be laid on the ground in the area where the excavated soil will be placed. Each test pit will be performed in two foot lifts and placed on the polyethylene sheeting in individual piles.

The monitoring protocol described below was designed to effectively detect gamma radiation to a depth of approximately 6 inches below the top of the surface being monitored. Based on this assumption, the monitoring will be performed on two-foot lifts of soil and will result in a monitored volume percent of approximately 25

percent. Screening will be performed using a Ludlum™ Model 2221 count-rate meter and scaler (or equivalent) equipped with a 100 cm^3 (2" x 2") sodium iodide (NaI) detector.

Radiation monitoring will entail scanning with the NaI detector and the count-rate meter detector across the floor of the excavation after each two-foot lift of material is excavated. If survey at the floor of the excavation is not practical (e.g., narrow trench or core samples), then the soil can be surveyed after removal. If removed soil is surveyed, it must be spread to a depth of 2 feet or less. During monitoring, the detector will be held approximately 3 inches or less above the surface being scanned. The detector will be moved over the surface being scanned at a rate not to exceed approximately 0.5 meters per second (m/s). This scan rate will allow the collection of a reasonable number of counts per scan. If a detection greater than two times background is observed, the two-foot lift will be spread into six inch deep layers and rescanned. A general description of the material that was scanned (e.g., sand clay, peat, waste, etc.) will also be recorded.

2.5.3 Soil Core Screening

Prior to performing soil borings, 10-mil polyethylene sheeting, sufficiently large to hold the anticipated number of soil cores will be laid on the ground in the area where the soil borings will be performed.

The monitoring protocol described below was designed to effectively detect gamma radiation within soil cores. Screening will be performed using a Ludlum™ Model 3 or 12 count-rate meter and scaler (or equivalent) equipped with a 44-9 frisker probe.

Radiation monitoring will entail scanning with the 44-9 probe and the count rate meter detector across the top of each sediment core in two foot long intervals. During monitoring, the detector will be held approximately 1 inch or less above the surface being scanned. The detector will be moved over the surface being scanned at a rate not to exceed approximately 5 centimeters per second (cm/s). This scan rate will allow the collection of a reasonable number of counts per scan. The readings will be included on the soil boring logs.

2.5.4 Screening Criteria

For the soil surface or excavation screening using the NaI detector, if count rates exceed 2-times background (as developed in 2.4.1, above), then the provisions specified in the SMPs will be implemented. In general, the SMPs require that excavated material that exceeds radiological screening criteria shall be stockpiled separately and the NYSDEC shall be notified. In addition, the excavated material shall be sampled and analyzed in accordance with Section 2.6 below. The location, including global positioning system (GPS) coordinates, of the hot spot and the maximum and minimum count rates observed (rounded to the nearest 100 cpm) will be recorded in the bound field notebook. Hot spot locations will be marked with paint, flags, or other marker.

Radiation levels measured up to two times the Site background is not considered to be a hazard. Radiation measurements in excess of approximately 2-times background will result in controlled disposition of the soil; however, it is not expected to be at a level that will be hazardous to the onsite workers. Note that past surveys of excavations onsite have not detected levels above two times background. As a protective measure against radiation dose to onsite workers, radioactivity above 1 mrem/hr (cpm equivalent to be calculated after instrument calibration) will be considered a potential radiation worker dose risk. Soil that exhibits readings above

background but below the threshold for radiation worker dose risk will be handled as described in the SMPs, as there is no significant exposure risk at these levels.

2.6 Soil Sampling and Radiological Analysis

For any soil that is identified as exceeding the criteria of two times the Site background, a minimum of one sample of at least 400 grams shall be taken per stockpile, where the individual stockpile does not exceed 500 cubic yards. Samples shall be analyzed by gamma spectroscopy using Method EML-HASL-300 or equivalent. The spectroscopy should be specified to identify gamma emitting radionuclides associated with the uranium and thorium decay chains. The count times, sample sizes, and geometry should be able to produce Minimum Detectable Concentrations (MDC) of 0.1 picocuries per gram (pCi/g) for Ac-228, Pb-212, Bi-212, Tl-208, Ra-226/U-235, Pb-214, and Bi-214. For U-235, the MDC should be 1 pCi/g or better, and for Pa-234m, the MDC should be 10 pCi/g. Samples to be analyzed for radionuclides shall be dried samples and will be analyzed before activities of the Ra-226 and its daughter products have returned to equilibrium. If there are indications of readings in excavations that exceed the criteria of two times background, then confirmation sampling and analysis will be performed in accordance with NYSDEC guidance in DER-10 (May 2010).

Confirmation samples shall be collected in excavations to document any contamination that remains in place in accordance with the SMPs. Confirmation samples shall be analyzed by gamma spectroscopy using Method EML-HASL-300, or equivalent, to identify gamma emitting radionuclides associated with uranium and thorium decay chains.

3.0 REFERENCES

Dvirka and Bartilucci, 2010. *Site Management Plan, Captains Cove Site*, June 2010.

Dvirka and Bartilucci, 2012. *Site Management Plan for Li Tungsten Site, Glen Cove, NY*, May 2012.

EPA, 2000 and 2001. *Multi-Agency Radiation Survey and Site Investigation Manual, Revision 1*, August 2000 and June 2001 updates.

Appendix C – Sediment Sampling Parameters from TOGS 5.1.9 and 6NYCRR Part 375

Table 2 Sediment Quality Threshold Values for Dredging, Riparian or In-water Placement

Threshold values are based on known and presumed impacts on aquatic organisms/ecosystem. Where fresh water and marine threshold values differ sufficiently, the marine value is presented in parentheses. All concentrations are in mg/kg dry weight.

Compound	Class A	Class B	Class C	Derivation Code
Metals (mg/kg)				
Arsenic	< 14 (8.2)	(8.2) 14 - 53	> 53	1
Cadmium	< 1.2	1.2 - 9.5	> 9.5	1
Copper*	< 33	33 - 207 (270)	> 207 (270)	1
Lead	< 33 (47)	33 (47) - 166 (218)	> 166 (218)	1
Mercury[+]	< 0.17	0.17 - 1.6 (1.0)	> 1.6 (1.0)	1
PAHs and Petroleum-Related Compounds (mg/kg)				
Benzene	< 0.59	0.59 - 2.16	> 2.16	2
Total BTEX*	< 0.96	0.96 - 5.9	> 5.9	2
Total PAH[1]	< 4	4 - 35 (45)	> 35 (45)	1
Pesticides (mg/kg)				
Sum of DDT+DDD+DDE[+]	< 0.003	0.003 - 0.03	> 0.03	2
Mirex*[+]	< 0.0014	0.0014 - 0.014	> 0.014	2
Chlordane*[+]	< 0.003	0.003 - 0.036	> 0.036	1
Dieldrin	< 0.11	0.11 -0. 48	> 0.48	2
Chlorinated Hydrocarbons (mg/kg)				
PCBs (sum of aroclors)[2]	< 0.1	0.1 - 1	> 1	3
2,3,7,8-TCDD*[3] (sum of toxic equivalency)	< 0.0000045	0.0000045 - 0.00005	> 0.00005	4

[+] Threshold values lower than the Method Detection Limit are superseded by the Method Detection Limit. (See Table 1)
* Indicates case-specific parameter (see Chapter II, Section A) .
[1]For Sum of PAH, see Appendix E
[2]For the sum of the 22 PCB congeners required by the USACE NYD or EPA Region 2, the sum must be multiplied by two to determine the total PCB concentration.
[3]TEQ calculation as per the NATO - 1988 method (see Appendix D)

Note: The proposed list of analytes can be augmented with additional site specific parameters of concern. Any additional analytes suggested will require Division approved sediment quality threshold values for the A, B and C classifications.

(b) Restricted use soil cleanup objectives.

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Metals							
Arsenic	7440-38-2	16[f]	16[f]	16[f]	16[f]	13[f]	16[f]
Barium	7440-39-3	350[f]	400	400	10,000 [d]	433	820
Beryllium	7440-41-7	14	72	590	2,700	10	47
Cadmium	7440-43-9	2.5[f]	4.3	9.3	60	4	7.5
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1[e]	19
Chromium, trivalent [h]	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50-8	270	270	270	10,000 [d]	50	1,720
Total Cyanide [h]		27	27	27	10,000 [d]	NS	40
Lead	7439-92-1	400	400	1,000	3,900	63[f]	450
Manganese	7439-96-5	2,000[f]	2,000[f]	10,000 [d]	10,000 [d]	1600[f]	2,000[f]
Total Mercury		0.81[j]	0.81[j]	2.8[j]	5.7[j]	0.18[f]	0.73
Nickel	7440-02-0	140	310	310	10,000 [d]	30	130
Selenium	7782-49-2	36	180	1,500	6,800	3.9[f]	4[f]
Silver	7440-22-4	36	180	1,500	6,800	2	8.3
Zinc	7440-66-6	2200	10,000 [d]	10,000 [d]	10,000 [d]	109[f]	2,480
PCBs/Pesticides							
2,4,5-TP Acid (Silvex)	93-72-1	58	100[a]	500[b]	1,000[c]	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 [e]	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 [e]	136
4,4'- DDD	72-54-8	2.6	13	92	180	0.0033 [e]	14
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04[g]	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
delta-BHC	319-86-8	100[a]	100[a]	500[b]	1,000[c]	0.04[g]	0.25
Dibenzofuran	132-64-9	14	59	350	1,000[c]	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan II	33213-65-9	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan sulfate	1031-07-8	4.8[i]	24[i]	200[i]	920[i]	NS	1,000[c]
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2
Semivolatiles							
Acenaphthene	83-32-9	100[a]	100[a]	500[b]	1,000[c]	20	98
Acenapthylene	208-96-8	100[a]	100[a]	500[b]	1,000[c]	NS	107
Anthracene	120-12-7	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benz(a)anthracene	56-55-3	1[f]	1[f]	5.6	11	NS	1[f]
Benzo(a)pyrene	50-32-8	1[f]	1[f]	1[f]	1.1	2.6	22
Benzo(b)fluoranthene	205-99-2	1[f]	1[f]	5.6	11	NS	1.7
Benzo(g,h,i)perylene	191-24-2	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1[f]	3.9	56	110	NS	1[f]
Dibenz(a,h)anthracene	53-70-3	0.33[e]	0.33[e]	0.56	1.1	NS	1,000[c]
Fluoranthene	206-44-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Fluorene	86-73-7	100[a]	100[a]	500[b]	1,000[c]	30	386
Indeno(1,2,3-cd)pyrene	193-39-5	0.5[f]	0.5[f]	5.6	11	NS	8.2
m-Cresol	108-39-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
Naphthalene	91-20-3	100[a]	100[a]	500[b]	1,000[c]	NS	12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
o-Cresol	95-48-7	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
p-Cresol	106-44-5	34	100[a]	500[b]	1,000[c]	NS	0.33[e]
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8[e]	0.8[e]
Phenanthrene	85-01-8	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Phenol	108-95-2	100[a]	100[a]	500[b]	1,000[c]	30	0.33[e]
Pyrene	129-00-0	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Volatiles							
1,1,1-Trichloroethane	71-55-6	100[a]	100[a]	500[b]	1,000[c]	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100[a]	100[a]	500[b]	1,000[c]	NS	0.33
1,2-Dichlorobenzene	95-50-1	100[a]	100[a]	500[b]	1,000[c]	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02[f]
cis-1,2-Dichloroethene	156-59-2	59	100[a]	500[b]	1,000[c]	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100[a]	100[a]	500[b]	1,000[c]	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1[e]	0.1[e]
Acetone	67-64-1	100[a]	100[b]	500[b]	1,000[c]	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100[a]	100[a]	500[b]	1,000[c]	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100[a]	100[a]	500[b]	1,000[c]	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33[e]	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100[a]	100[a]	500[b]	1,000[c]	100[a]	0.12

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
Methyl tert-butyl ether	1634-04-4	62	100[a]	500[b]	1,000[c]	NS	0.93
Methylene chloride	75-09-2	51	100[a]	500[b]	1,000[c]	12	0.05
n-Propylbenzene	103-65-1	100[a]	100[a]	500[b]	1,000[c]	NS	3.9
sec-Butylbenzene	135-98-8	100[a]	100[a]	500[b]	1,000[c]	NS	11
tert-Butylbenzene	98-06-6	100[a]	100[a]	500[b]	1,000[c]	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100[a]	100[a]	500[b]	1,000[c]	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5- Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	100[a]	100[a]	500[b]	1,000[c]	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm).
NS=Not specified. See Technical Support Document (TSD).

Footnotes

[a] The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

[e] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[g] This SCO is derived from data on mixed isomers of BHC.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[i] This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

[j] This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

PWGC
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APPENDIX B

SOIL BORING LOGS

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR1	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F			

Drilling Method:	Tripod	Borehole Diameter:	3"
Sampling Method:	Split Spoon	Borehole Depth:	13.5'
Start Time:	9:45	Completion Time:	12:20
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
1.5	0	3	1.5		SW-SM	10YR6/4	W	Well graded medium sand wit hsilt and gravel	5,250	0.0	
	1										
	2										
	3				SM	10YR4/1		Silty sand with some gravel			
	4	3	1.5								
	5										
	6	3	1.5		OL/OH			Sandy organics with some gravel	5,600	0.0	
	7										
	8							Organic sands with some gravel and shell fragments			
	9										
	10	3	1.5								
	11				SP-SC	10YR3/1		Poorly graded medium sand and clay with trace gravel			
	12										
-10.9	12.4	1.5	1.5						5,100	0.0	
	12.5										
-11.4	12.9										
	13										
-11.9	13.4										

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	1.5 to -10.9		0 to 12.4'
Segment B	-10.9 to -11.4		12.4' to 12.9'
Segment C	-11.4 to -11.9		12.9' to 13.4'

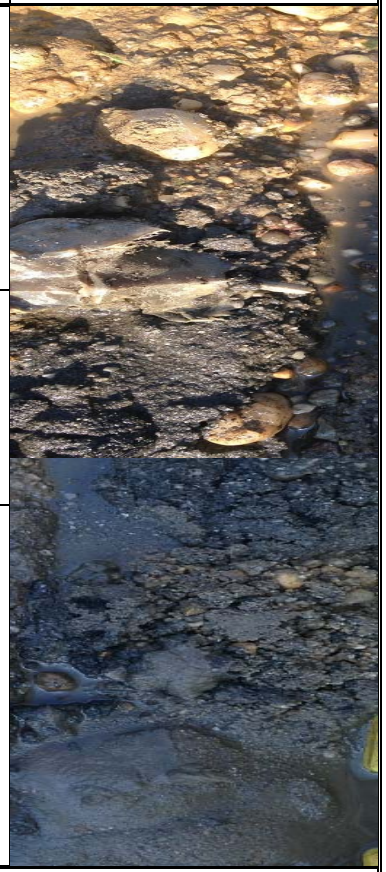
Notes: 2 pt. composite sample collected for necessary soil volume. MS/MSD collected.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR2	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Tripod	Borehole Diameter:	3"
Sampling Method:	Split Spoon	Borehole Depth:	9.1'
Start Time:	14:50	Completion Time:	17:45
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
	0	3	1.5		SW-SM	10YR6/4	W	Well graded medium sand with silt and gravel	5,600	0.0	
	1										
	2					10YR4/3					
	3				SM	10YR4/1		Silty sand with gravel, horshoe crab carcass			
	4	3	1.5		OL/OH	10YR3/2		Sandy organics with some gravel, little shell fragments	5,400	0.0	
	5										
	6										
	7	3	1.5			10YR4/1		Sandy organics with some gravel	5,500	0.0	
	8										
	8.1										
	8.5										
	8.6				SW-SM			Well graded medium sand with silt			
	9										
	9.1										

Sample Segment Elevation (ft)	Segment A	-2.8 to -10.9	Sample Segment Depth B.G. (ft)	0.0 to 8.1
	Segment B	-10.9 to -11.4		8.1 to 8.6
	Segment C	-11.4 to -11.9		8.6 to 9.1

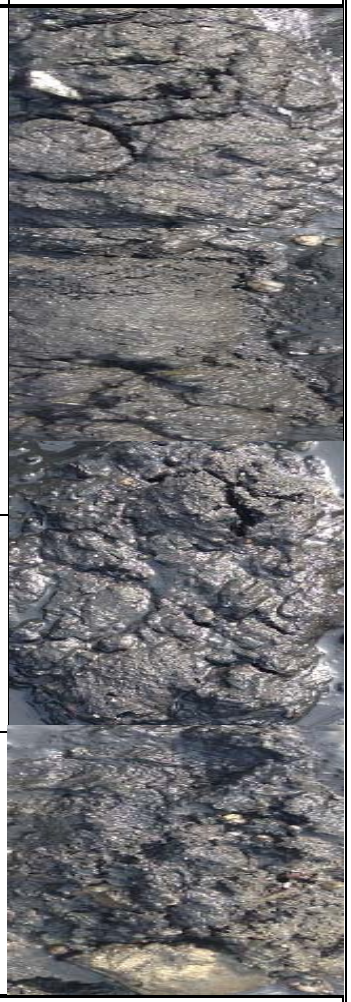
Notes: DUP001 collected.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR3	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F			

Drilling Method:	Tripod	Borehole Diameter:	3"
Sampling Method:	Split Spoon	Borehole Depth:	11'
Start Time:	8:30	Completion Time:	9:30
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-0.8	0	3'	1.5		OL/OH	10YR3/1	W	Sandy organics with gravel and shell fragments	5380	0.0	
	1										
	2										
	3										
	4	3'	1.5								
	5										
	6										
	7	3'	1.5							0.0	
	8										
	9										
	10	2'	1'			10YR4/1			5300	0.0	
	10.1										
	10.5				SP-SC			Poorly graded medium sand with large gravel and clay			
	10.6					10YR3/2					
	11										
	11.1										

Sample Segment Elevation (ft)	Segment A	-0.8 to -10.9	Sample Segment Depth B.G. (ft)	0' to 10.1'	Notes: DUP002 collected.
	Segment B	-10.9 to -11.4		10.1' to 10.6'	
	Segment C	-11.4 to -11.9		10.6' to 11.1'	

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR4	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Tripod	Borehole Diameter:	3"
Sampling Method:	Split Spoon	Borehole Depth:	5.7'
Start Time:	13:30	Completion Time:	14:30
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-6.2	0.0	3'	1.5		SW-SM	10YR4/4	W	Well graded medium sand with silt and gravel	5,300	0.0	
	1.0										
	2.0					10YR4/1					
	3.0				SM			Silty sand with some gravel and shell fragments		0.0	
	4.0	3'	1.5			10YR3/1			5,250		
	4.5										
-10.9	4.7										
	5.0										
-11.4	5.2				SW-SM			Well graded medium sand with swilt and some gravel		0.0	
	5.5										
-11.9	5.7										

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	-6.2 to -10.9	0.0 to 4.7	Notes: DUP003 collected.
Segment B	-10.9 to -11.4	4.7 to 5.2	
Segment C	-11.4 to -11.9	5.2 to 5.7	

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR5	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:	Hand Auger	Borehole Depth:	1.5'
Start Time:	8:55	Completion Time:	9:10
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-9.6	0.0	0.5	0.5		OL/OH	10YR3/1	W	Organic sands, little gravel	2,800	0.0	
-9.9	0.3										
	0.5										
-10.4	0.8	0.5	0.5								
	1.0				ML	10YR4/1		Sandy silt with trace gravel and shell fragments	2,700	0.0	
-10.9	1.3	0.5	0.5								
	1.5										

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	-9.6 to -9.9		0.0 to 0.3
Segment B	-9.9 to -10.4		0.3 to 0.8
Segment C	-10.4 to -10.9		0.8 to 1.3

Notes: 3 pt. composite sample collected for necessary soil volume. MS/MSD collected.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR6	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:	Hand Auger	Borehole Depth:	2.1'
Start Time:	10:35	Completion Time:	10:50
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-8.82	0.0	0.5	0.5		OL/OH	10YR3/1	W	Organic sand with silts	6,000	0.0	
	0.5										
	1.0	0.5	0.5		SM	10YR4/2		Silty sand with little gravel, trace shell fragments.			
-9.9	1.1										
	1.5	0.5	0.5								
-10.4	1.6										
	2.0	0.5	0.5		OL/OH	10YR4/1		Organic sand with little gravel			
-10.9	2.1										

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	-8.8 to -9.9		0.0 to 1.1
Segment B	-9.9 to -10.4		1.1 to 1.6
Segment C	-10.4 to -10.9		1.6 to 2.1

Notes: DUP004 collected.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR7	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:	Hand Auger	Borehole Depth:	2.2'
Start Time:	11:00	Completion Time:	11:30
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-8.7	0.0	0.5	0.5		OL/OH	10YR3/1	W	Organic sand with silts	5,500	0.0	
	0.5										
	1.0	0.5	0.5		SM			Silty sand with little gravel, trace shell fragments			
-9.9	1.2										
	1.5	0.5	0.5								
-10.4	1.7									0.0	
	2.0	0.5	0.5		OL/OH	10YR3/2		Organic sand with little gravel			
-10.9	2.2										

Sample Segment Elevation (ft)	Segment A	-8.7 to -9.9	Sample Segment Depth B.G. (ft)	0.0 to 1.2	Notes: DUP005 collected.
	Segment B	-9.9 to -10.4		1.2 to 1.7	
	Segment C	-10.4 to -10.9		1.7 to 2.2	

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR8	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F, Wind W @ 4mph			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:	Hand Auger	Borehole Depth:	1.6'
Start Time:	11:40	Completion Time:	12:05
Start Date:	8/14/2015	Completion Date:	8/14/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-9.3	0.0	0.5	0.5		OL/OH	10YR4/1	W	Sandy organics and silt with little gravel	5,600	0.0	
	0.5	0.5	0.5								
-9.9	0.6										
	1	0.5	0.5			10YR3/2		Sandy organics and silt with little gravel and shell fragments			
-10.4	1.1										
	1.5	0.5	0.5					Gravelly organic soils.			
-10.9	1.6										

Sample Segment Elevation (ft)			Sample Segment Depth B.G. (ft)	
	Segment A	-9.3 to -9.9		0.0 to 0.6
	Segment B	-9.9 to -10.4		0.6 to 1.1
	Segment C	-10.4 to -10.9		1.1 to 1.6

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR9	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:		Borehole Depth:	1'
Start Time:	11:!5	Completion Time:	11:45
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-9.9	0	0.5	0.5		OL/OH	10YR4/1	W	Organic sand with some gravel	6,000	0.0	
-10.4	0.5										
-10.9	1.0	0.5	0.5					Gravelly organics with sand			

Sample Segment Elevation (ft)	Segment A	-11.6 to -9.9	Sample Segment Depth B.G. (ft)	NA
	Segment B	-9.9 to -10.4		0 to 0.5'
	Segment C	-10.4 to -10.9		0.5' to 1.0'

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR10	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	8/17/2015			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:		Borehole Depth:	1'
Start Time:	10:30	Completion Time:	11:10
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-9.9	0	0.5	0.5		OL/OH	10YR3/1	W	Organic sand with gravel and shell gragments	6,500	0.0	
-10.4	0.5				SW-SM			Well graded medium sand with silt and gravel			
-10.9	1.0	0.5	0.5								

Sample Segment Elevation (ft)	Segment A	-11.6 to -9.9	Sample Segment Depth B.G. (ft)	NA
	Segment B	-9.9 to -10.4		0 to 0.5'
	Segment C	-10.4 to -10.9		0.5' to 1.0'

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR11	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:		Borehole Depth:	1'
Start Time:	9:30	Completion Time:	10:25
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-9.9	0	0.5	0.5		SM	10YR3/1	W	Silty sand with gravel and shell fragments	6,100	0.0	
-10.4	0.5										
-10.9	1.0	0.5	0.5		OL/OH			Coarse gravelly organics with clay			

Sample Segment Elevation (ft)	Segment A	-11.1 to -9.9	Sample Segment Depth B.G. (ft)	NA
	Segment B	-9.9 to -10.4		0.0 to 0.5'
	Segment C	-10.4 to -10.9		0.5' to 1.0'

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR12	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 85F			

Drilling Method:	Hand Auger	Borehole Diameter:	3"
Sampling Method:		Borehole Depth:	2.1'
Start Time:	8:50	Completion Time:	9:20
Start Date:	8/17/2015	Completion Date:	8/17/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-8.8	0	0.5	0.5		OL/OH	10YR4/1	W	Organic sand with trace gravel	6,700	0.0	
	1	0.5	0.5								
-9.9	1.1										
	1.5	0.5	0.5			10YR3/2					
-10.4	1.6										
	2	0.5	0.5		ML			Silt with little gravel	6,200	0.0	
-10.9	2.1										

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	-8.8 to -9.9		0' to 1.1'
Segment B	-9.9 to -10.4		1.1' to 1.6'
Segment C	-10.4 to -10.9		1.6' to 2.1'

Notes: 3 pt. composite sample collected for necessary soil volume.
MS/MSD collected.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR13	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
RAD TECH:	AG	LUDLUM:	Ludlum 2221	172051
WEATHER:	Sunny 71-82F, Wind WNW @ 7mph			

Drilling Method:	Macro	Borehole Diameter:	3"
Sampling Method:	Closed Piston	Borehole Depth:	1.0'
Start Time:	13:00	Completion Time:	13:25
Start Date:	8/13/2015	Completion Date:	8/13/2015

Monitoring Action levels	RAD (2X Background)
	14,648 cpm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	RAD (cpm)	PID (ppm)	Photo Log
-11.2	0.0	1	1		OL/OH	10YR3/1	W	Organic sand and silt with little gravel	2,500	0.0	
-11.7	0.5					10YR5/5					
-12.2	1.0				ML	10YR6/2		Non plastic silts			

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	-11.2 to -9.9	NA	
Segment B	-9.9 to -10.4	0.0 to 0.5	
Segment C	-10.4 to -10.9	0.5 to 1.0	

Notes: 5 pt. composite collected for necessary sample volume.

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR14	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
WEATHER:	Sunny 60F, Wind NW @ 10mph	XRF:	Innov-X Systems Inc. - DCC-4000	

Drilling Method:	Direct Push	Borehole Diameter:	2 inch
Sampling Method:	Closed Piston	Borehole Depth:	17'
Start Time:	11:00	Commpletion Time:	11:40
Start Date:	10/24/2014	Completion Date:	10/24/2014

Monitoring Action levels	As	Pb
	24 ppm	400 ppm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	Photo Log
6.59	0	5	3.5		SM	10YR4/2	D	Organics, Silty sand with gravel	0.0	6	49	
	1											
	2											
	3				SW	10YR5/4		Well graded medium sand with little gravel	0.0	ND	ND	
	4											
1.59	5					10YR6/3			0.0	ND	7	
	6	5	2		SW-SM			Well graded medium sand with silt and gravel				
	7								0.0	5	13	
	8											
	9								0.0	5	53	
-3.41	10					10YR4/6	M					
	11	5	2			10YR3/1		Well graded medium sand with silt and gravel and shell fragments	0.0	ND	ND	
	12				SM		W	Silty sand and shell fragments				
	13								0.0	ND	14.5	
	14				SW-SM			Well graded medium sand with silt and shell fragments				
-8.41	15											
-9.41												
-9.70	16	2	2		SM	10YR5/2		Silty sand	0.0	ND	11	
	17											

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	6.59 to -8.80		0 to 15.39
Segment B	-8.80 to -9.20		15.39 to 15.89
Segment C	-9.20 to -9.70		15.89 to 16.39

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR15	Instrument	Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600	
WEATHER:	Sunny 60F, Wind NW @ 10mph	XRF:	Innov-X Systems Inc. - DCC-4000	

Drilling Method:	Direct Push	Borehole Diameter:	2 inch
Sampling Method:	Closed Piston	Borehole Depth:	20'
Start Time:	12:00	Commpletion Time:	12:45
Start Date:	10/24/2014	Completion Date:	10/24/2014

Monitoring Action levels	As	Pb
	24 ppm	400 ppm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	Photo Log
9.33	0	5	3		SM	10YR4/2	D	Organics, silty sand with gravel	0.0	ND	4	
	1											
	2				SW	10YR5/4		Well graded medium sand with little gravel				
	3								0.0	14	24	
	4											
4.33	5				SM	10YR5/2		Tightly packed silty sand with gravel	0.0	ND	27	
	6											
	7											
	8	5	3			10YR3/1						
	9				SC	10YR5/2	M	Clayey sand	0.0	9	54	
-0.67	10											
	11	5	3		GW	10YR4/1	W	Well graded gravelly sand	0.0	3.2	5.1	
	12											
	13								0.0	ND	4	
	14				SC			Clayey sand				
-5.67	15				SW			Well graded medium sand with shell fragments				
	16	5	5						0.0	ND	6.8	
	17											
-8.80	18							Well graded medium sand with gravel and shell fragments	0.0	ND	6	
-9.20												
-9.70	19											
	20				SC			Clayey sand				

Sample Segment Elevation (ft)		Sample Segment Depth B.G. (ft)	
Segment A	9.33 to -8.80		0 to 18.13
Segment B	-8.80 to -9.20		18.13 to 18.63
Segment C	-9.20 to -9.70		18.63 to 19.13

SOIL BORING LOG SHEET

BOREHOLE NUMBER:	RXR16	Instrument	Model Number		Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		
WEATHER:	Partly Sunny 60F, Wind NW @ 10mph	XRF:	Innov-X Systems Inc. - DCC-4000		
Drilling Method:	Direct Push		Borehole Diameter:	2 inch	
Sampling Method:	Closed Piston		Borehole Depth:	20'	
Start Time:	13:10		Commpletion Time:	13:45	
Start Date:	10/24/2014		Completion Date:	10/24/2014	

Monitoring Action levels	As	Pb
	24 ppm	400 ppm

Elevation (ft)	Depth b.g. (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	Photo Log
9.08	0	5	3		SM	10YR4/1	D	Organics, silty sand with gravel	0.0	ND	9	
	1											
	2				SW	10YR5/4		Well graded medium sand with little gravel				
	3								0.0	10	41	
	4				SM	10YR6/3		Rock, then tightly packed silty sand with gravel				
4.08	5								0.0	8	66	
	6	5	2					Wood				
	7					10YR4/1	M	Silty sand with gravel	0.0	6	6	
	8											
	9								0.0	ND	6	
-0.92	10				SW			Well graded medium sand with gravel				
	11	5	5				W		0.0	ND	14	
	12					10YR3/1		Well graded medium sand with gravel and shell fragments				
	13					10YR4/1			0.0	ND	9	
	14				SC			Clayey sand with little shell fragments				
-5.92	15				GW			Well graded gravelly sand	0.0	ND	ND	
	16	4	5									
-8.80	17					10YR5/1			0.0	3.9	2	
-9.20	18				SC			Clayey sand				
-9.70												
	19				SW			Well graded fine-medium sand with gravel				

Sample Segment Elevation (ft)	Segment A	9.08 to -8.80	Sample Segment Depth B.G. (ft)	0 to 17.88
	Segment B	-8.80 to -9.20		17.88 to 18.38
	Segment C	-9.20 to -9.70		18.38 to 18.88

PWGC
Strategic Environmental Engineering Solutions

APPENDIX C

LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
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Tel: (802)660-1990

TestAmerica Job ID: 200-25015-1
Client Project/Site: Glen Isle Waterfront Redevelopment

For:
RXR Glen Isle Partners, LLC
625 RXR Plaza
Uniondale, New York 11556

Attn: Ellis Koch

Authorized for release by:
12/15/2014 7:58:39 AM

Don Dawicki, Manager of Project Management
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-25015-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: RXR Glen Isle Partners, LLC

Project: Glen Isle Waterfront Redevelopment

Report Number: 200-25015-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

The Dioxin analyses were performed at TestAmerica's Knoxville, TN laboratory. The data package provided by TestAmerica Knoxville is provided in it's entirety within this submittal.

RECEIPT

The samples were received on 10/25/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 0.6º C and 3.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were prepared on 10/27/2014 and analyzed on 11/03/2014 and 11/04/2014.

The original analyses for samples RXR14C-9.20--9.7024102014, RXR15B-8.80--9.2024102014, , RXR15C-9.20--9.7024102014, and RXR16A9.08--8.8024102014 yielded internal standard responses and surrogate recoveries that were outside control criteria. These samples were re-analyzed yielding generally similar results. The results from both analyses for each sample have been formally presented.

The analyses of the method blanks associated with this delivery group yielded concentrations of target analytes below the reporting limits. The values should be considered estimated and have been flagged. If the associated samples reported results above the MDL and/or RL, the results has been flagged.

The continuing calibration verification (CCV) associated with batch 79852 recovered above the upper control limit for 1,4-dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 200-79852/2).

The timestamp on the BFB is 1 hour ahead of the actual acquisition time. The PC auto-updated for daylight savings time after the 1st acquistion. The remaining run times are accurate.

VOLATILE ORGANIC COMPOUNDS

Sample TRIP BLANK was analyzed for Volatile Organic Compounds in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 11/05/2014.

Job ID: 200-25015-1 (Continued)

Laboratory: TestAmerica Burlington (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/05/2014 and analyzed on 11/11/2014 and 11/14/2014.

The analysis of the continuing calibration check standard associated with instrument batch 80273 yielded an increased response for benzo(k)fluoranthene, resulting in an elevated percent difference.
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED PESTICIDES

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081B. The samples were prepared on 11/06/2014 and analyzed on 11/29/2014.

The continuing calibration verification (CCV) associated with batch 81355 recovered above the upper control limit for Endrin and DDD. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 11/06/2014 and analyzed on 11/19/2014 and 11/20/2014.

Continuing calibration verification (CCV) for batch 80890 was marginally outside 8082A control limits for AR1016 on the RTX-35 only.

The continuing calibration verification (CCV) associated with batch 80806 recovered above the upper control limit for the surrogate Tetrachloro-m-xylene.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 11/03/2014 and analyzed on 11/06/2014.

Surrogate recoveries for the majority of the samples in this delivery, as well as the method blank and blank spike exceeded the upper control limit on the primary column: These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The calibration verification standards associated with the analyses of the samples in this delivery group recovered above the upper control limit for 2,4,5-TP on the primary column. The associated samples were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014,

Job ID: 200-25015-1 (Continued)

Laboratory: TestAmerica Burlington (Continued)

RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/03/2014 and analyzed on 11/04/2014 and 11/17/2014.

Lead was detected in method blank MB 200-79708/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Sample RXR14B-8.80--9.2024102014[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 11/19/2014 and analyzed on 11/20/2014.

Mercury was detected in method blank MB 200-80723/22-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Mercury exceeded the RPD limit for the duplicate of sample RXR14A6.59--8.8024102014DU. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared and analyzed on 11/11/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 11/20/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 11/07/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GRAIN SIZE

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for grain size in accordance with D422 grain size. The samples were analyzed on 10/29/2014.

Job ID: 200-25015-1 (Continued)

Laboratory: TestAmerica Burlington (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 10/31/2014.

Total Organic Carbon was detected in method blank MB 200-79705/5 at a level below reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Total Organic Carbon exceeded the RPD limit for the duplicate of sample RXR14A6.59--8.8024102014DU. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples RXR14A6.59--8.8024102014, RXR14B-8.80--9.2024102014, RXR14C-9.20--9.7024102014, RXR15A9.33--8.8024102014, RXR15B-8.80--9.2024102014, RXR15C-9.20--9.7024102014, RXR16A9.08--8.8024102014, RXR16B-8.80--9.2024102014 and RXR16C-9.20--9.7024102014 were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 11/03/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR14A6.59--8.8024102014 **Lab Sample ID: 200-25015-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10		4.6	3.7	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.3	J B	4.6	0.51	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	56	J	390	15	ug/Kg	1	☼	8270D	Total/NA
Anthracene	320	J	390	16	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	890		390	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	800		390	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	800		390	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	390		390	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	680		390	35	ug/Kg	1	☼	8270D	Total/NA
Chrysene	860		390	21	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	180	J	390	13	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2100		390	14	ug/Kg	1	☼	8270D	Total/NA
Fluorene	65	J	390	18	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	340	J	390	16	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		390	14	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1600		390	16	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	27	J	390	19	ug/Kg	1	☼	8270D	Total/NA
Endosulfan sulfate	0.59	J	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
Arsenic	1.9		0.93	0.28	mg/Kg	1	☼	6010C	Total/NA
Barium	13.6		4.6	0.35	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.18	J	0.46	0.011	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.074	J	0.46	0.053	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.3		0.93	0.074	mg/Kg	1	☼	6010C	Total/NA
Copper	7.6		2.3	0.47	mg/Kg	1	☼	6010C	Total/NA
Lead	27.1	B	0.93	0.20	mg/Kg	1	☼	6010C	Total/NA
Manganese	96.5		0.93	0.11	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.0		0.93	0.10	mg/Kg	1	☼	6010C	Total/NA
Silver	0.20	J	0.46	0.076	mg/Kg	1	☼	6010C	Total/NA
Zinc	22.5		1.9	1.5	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.060	B	0.045	0.0096	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	8.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	4010	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	10.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	73.3				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	10.2				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	29.9				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	33.2				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	16.7				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	90.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	79.8				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	70.2				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	49.9				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	30.6				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	24.3				% Passing	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR14A6.59--8.8024102014 (Continued) — Lab Sample ID: 200-25015-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size #100 - Percent Finer	21.6				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	16.7				% Passing	1		D422	Total/NA

Client Sample ID: RXR14B-8.80--9.2024102014 — Lab Sample ID: 200-25015-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.5	J	3.6	3.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.0	J B	3.6	0.40	ug/Kg	1	☼	8260C	Total/NA
Arsenic	1.5	J	2.2	0.65	mg/Kg	2	☼	6010C	Total/NA
Barium	16.6		10.8	0.82	mg/Kg	2	☼	6010C	Total/NA
Beryllium	0.48	J	1.1	0.026	mg/Kg	2	☼	6010C	Total/NA
Cadmium	0.19	J	1.1	0.12	mg/Kg	2	☼	6010C	Total/NA
Chromium	16.0		2.2	0.17	mg/Kg	2	☼	6010C	Total/NA
Copper	31.7		5.4	1.1	mg/Kg	2	☼	6010C	Total/NA
Lead	6.3	B	1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Manganese	40.5		2.2	0.26	mg/Kg	2	☼	6010C	Total/NA
Nickel	6.9		2.2	0.24	mg/Kg	2	☼	6010C	Total/NA
Zinc	28.3		4.3	3.5	mg/Kg	2	☼	6010C	Total/NA
Mercury	0.039	B	0.038	0.0083	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	16.0		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	1850	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	2.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	51.4				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	2.5				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	13.3				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	35.6				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	46.6				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	98.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	95.5				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	91.9				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	82.2				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	69.0				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	62.1				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	58.3				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	46.6				% Passing	1		D422	Total/NA

Client Sample ID: RXR14C-9.20--9.7024102014 — Lab Sample ID: 200-25015-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5		4.4	3.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.4	J B	4.4	0.49	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.30	J B	4.4	0.17	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	8.4	*	4.3	3.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.0	J B	4.3	0.48	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR14C-9.20--9.7024102014 (Continued)

Lab Sample ID: 200-25015-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	59.1		5.3	0.40	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.39	J	0.53	0.013	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.53	0.060	mg/Kg	1	☼	6010C	Total/NA
Chromium	24.3		1.1	0.085	mg/Kg	1	☼	6010C	Total/NA
Copper	22.5		2.7	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	7.3	B	1.1	0.22	mg/Kg	1	☼	6010C	Total/NA
Manganese	67.1		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.6		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	60.4		2.1	1.7	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.034	J B	0.040	0.0086	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	24.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	2040	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	7.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	55.2				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	7.5				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	18.2				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	29.5				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	37.8				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	93.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	85.5				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	78.4				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	67.3				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	54.6				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	48.5				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	45.4				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	37.8				% Passing	1		D422	Total/NA

Client Sample ID: RXR15A9.33--8.8024102014

Lab Sample ID: 200-25015-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10		4.9	4.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.5	J B	4.9	0.55	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.24	J B	4.9	0.19	ug/Kg	1	☼	8260C	Total/NA
Arsenic	2.4		0.85	0.26	mg/Kg	1	☼	6010C	Total/NA
Barium	15.0		4.3	0.32	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22	J	0.43	0.010	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.11	J	0.43	0.049	mg/Kg	1	☼	6010C	Total/NA
Chromium	9.3		0.85	0.068	mg/Kg	1	☼	6010C	Total/NA
Copper	7.0		2.1	0.44	mg/Kg	1	☼	6010C	Total/NA
Lead	16.4	B	0.85	0.18	mg/Kg	1	☼	6010C	Total/NA
Manganese	126		0.85	0.10	mg/Kg	1	☼	6010C	Total/NA
Nickel	6.0		0.85	0.094	mg/Kg	1	☼	6010C	Total/NA
Zinc	27.1		1.7	1.4	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR15A9.33--8.8024102014 (Continued)

Lab Sample ID: 200-25015-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.025	J B	0.044	0.0094	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	9.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	4580	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	11.6				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	65.4				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	9.7				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	27.9				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	27.8				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	23.0				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	98.5				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	88.4				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	78.7				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	67.5				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	50.8				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	36.9				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	31.7				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	29.1				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	23.0				% Passing	1		D422	Total/NA

Client Sample ID: RXR15B-8.80--9.2024102014

Lab Sample ID: 200-25015-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		7.9	6.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.5	J B	7.9	0.89	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	1.4	J	7.9	0.54	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	9.6		7.9	3.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.47	J B	7.9	0.30	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	46		7.4	6.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	2.5	J B	7.4	0.82	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether - RE	1.6	J	7.4	0.50	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	14		7.4	3.2	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	0.76	J	7.4	0.28	ug/Kg	1	☼	8260C	Total/NA
Arsenic	1.5		0.88	0.26	mg/Kg	1	☼	6010C	Total/NA
Barium	5.8		4.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.076	J	0.44	0.011	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.057	J	0.44	0.050	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.8		0.88	0.071	mg/Kg	1	☼	6010C	Total/NA
Copper	2.2		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	5.0	B	0.88	0.19	mg/Kg	1	☼	6010C	Total/NA
Manganese	46.1		0.88	0.11	mg/Kg	1	☼	6010C	Total/NA
Nickel	2.3		0.88	0.097	mg/Kg	1	☼	6010C	Total/NA
Zinc	8.0		1.8	1.4	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.039	J B	0.046	0.010	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	4.8		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	1730	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR15B-8.80--9.2024102014 (Continued)

Lab Sample ID: 200-25015-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gravel	4.5				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	76.8				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	4.9				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	32.8				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	39.1				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	18.7				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	95.5				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	90.6				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	79.8				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	57.8				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	35.2				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	26.9				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	23.4				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	18.7				% Passing	1		D422	Total/NA

Client Sample ID: RXR15C-9.20--9.7024102014

Lab Sample ID: 200-25015-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30		6.7	5.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.0	J B	6.7	0.75	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	1.6	J	6.7	0.45	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	9.6		6.7	2.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.41	J B	6.7	0.25	ug/Kg	1	☼	8260C	Total/NA
Vinyl chloride - RE	3.1	J	6.7	0.89	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	26		6.7	5.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	2.5	J B	6.7	0.75	ug/Kg	1	☼	8260C	Total/NA
trans-1,2-Dichloroethene - RE	0.85	J	6.7	0.11	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether - RE	1.1	J	6.7	0.46	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene - RE	13		6.7	0.58	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	6.8		6.7	3.0	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	0.49	J *	6.7	0.30	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene - RE	0.47	J * B	6.7	0.17	ug/Kg	1	☼	8260C	Total/NA
beta-BHC	0.44	J	2.2	0.35	ug/Kg	1	☼	8081B	Total/NA
Arsenic	4.1		1.2	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	17.3		5.9	0.45	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.33	J	0.59	0.014	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.59	0.067	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.9		1.2	0.095	mg/Kg	1	☼	6010C	Total/NA
Copper	5.9		3.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Lead	5.5	B	1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Manganese	157		1.2	0.14	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.1		1.2	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	22.2		2.4	1.9	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.011	J B	0.048	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR15C-9.20--9.7024102014 (Continued)

Lab Sample ID: 200-25015-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (III)	12.9		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	21300	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	3.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	39.7				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	2.1				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	17.4				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	20.2				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	57.3				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	97.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	94.9				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	88.6				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	77.5				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	66.0				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	62.4				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	60.6				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	57.3				% Passing	1		D422	Total/NA

Client Sample ID: RXR16A9.08--8.8024102014

Lab Sample ID: 200-25015-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.7		6.9	5.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.7	J B	6.9	0.77	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethane	0.73	J	6.9	0.62	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	3.0	J	6.9	0.59	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.27	J B	6.9	0.26	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	55	*	18	15	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	16	J * B	18	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	70	J	380	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	46	J	380	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	65	J	380	35	ug/Kg	1	☼	8270D	Total/NA
Chrysene	71	J	380	21	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	87	J	380	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	62	J	380	14	ug/Kg	1	☼	8270D	Total/NA
Pyrene	77	J	380	16	ug/Kg	1	☼	8270D	Total/NA
alpha-Chlordane	0.38	J	1.9	0.27	ug/Kg	1	☼	8081B	Total/NA
Chlordane (technical)	3.3	J	19	0.73	ug/Kg	1	☼	8081B	Total/NA
Arsenic	1.7		0.78	0.24	mg/Kg	1	☼	6010C	Total/NA
Barium	10.9		3.9	0.30	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.16	J	0.39	0.0094	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.14	J	0.39	0.045	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.0		0.78	0.063	mg/Kg	1	☼	6010C	Total/NA
Copper	6.3		2.0	0.40	mg/Kg	1	☼	6010C	Total/NA
Lead	15.8	B	0.78	0.16	mg/Kg	1	☼	6010C	Total/NA
Manganese	52.4		0.78	0.094	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR16A9.08--8.8024102014 (Continued)

Lab Sample ID: 200-25015-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	4.1		0.78	0.086	mg/Kg	1	☼	6010C	Total/NA
Zinc	55.1		1.6	1.3	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.045	B	0.043	0.0093	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	5.0		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	6900	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	9.6				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	88.8				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	12.0				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	39.4				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	37.4				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	1.6				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	96.4				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	90.4				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	78.4				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	63.7				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	39.0				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	16.9				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	10.2				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	7.0				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	1.6				% Passing	1		D422	Total/NA

Client Sample ID: RXR16B-8.80--9.2024102014

Lab Sample ID: 200-25015-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.9		4.1	3.3	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.2	J B	4.1	0.46	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	0.48	J	4.1	0.28	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.4	J	4.1	0.35	ug/Kg	1	☼	8260C	Total/NA
Arsenic	2.4		0.95	0.29	mg/Kg	1	☼	6010C	Total/NA
Barium	6.9		4.8	0.36	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.18	J	0.48	0.011	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.9		0.95	0.076	mg/Kg	1	☼	6010C	Total/NA
Copper	3.5		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Lead	3.1	B	0.95	0.20	mg/Kg	1	☼	6010C	Total/NA
Manganese	59.2		0.95	0.11	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.6		0.95	0.10	mg/Kg	1	☼	6010C	Total/NA
Zinc	13.9		1.9	1.5	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.048	B	0.042	0.0090	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	6.9		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	4610	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	1.7				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	59.6				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	6.3				%	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR16B-8.80--9.2024102014 (Continued) — Lab Sample ID: 200-25015-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	25.2				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	28.1				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	38.7				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #4 - Percent Finer	98.3				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	92.0				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	83.1				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	66.8				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	51.4				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	46.6				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	44.3				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	38.7				% Passing	1		D422	Total/NA

Client Sample ID: RXR16C-9.20--9.7024102014 — Lab Sample ID: 200-25015-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		6.5	5.4	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.3	J B	6.5	0.73	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	1.2	J	6.5	0.45	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	0.21	J B	6.5	0.14	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	2.0	J	6.5	0.56	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.45	J	6.5	0.25	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	0.33	J B	6.5	0.17	ug/Kg	1	☼	8260C	Total/NA
Arsenic	3.3		1.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	15.4		5.3	0.41	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.45	J	0.53	0.013	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.6		1.1	0.086	mg/Kg	1	☼	6010C	Total/NA
Copper	11.8		2.7	0.55	mg/Kg	1	☼	6010C	Total/NA
Lead	9.5	B	1.1	0.22	mg/Kg	1	☼	6010C	Total/NA
Manganese	96.8		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.7		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	37.2		2.1	1.7	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.072	B	0.050	0.011	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	19.6		2.0	2.0	mg/Kg	1		7196A	Total/NA
Total Organic Carbon	39200	B	1000	120	mg/Kg	1		Lloyd Kahn	Total/NA
Gravel	0.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	42.2				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.7				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	14.2				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	27.3				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fines	57.8				%	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR16C-9.20--9.7024102014 (Continued)

Lab Sample ID: 200-25015-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size #4 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	99.3				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	95.3				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	85.1				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	73.4				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	69.1				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	66.5				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	57.8				% Passing	1		D422	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 200-25015-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR14A6.59--8.8024102014
Date Collected: 10/24/14 11:55
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-1
Matrix: Solid
Percent Solids: 86.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.6	U	4.6	0.60	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,1-Dichloroethene	4.6	U	4.6	0.26	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Acetone	**10**		4.6	3.7	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Methylene Chloride	**1.3**	**J B**	4.6	0.51	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
trans-1,2-Dichloroethene	4.6	U	4.6	0.076	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Methyl tert-butyl ether	4.6	U	4.6	0.31	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,3-Dichlorobenzene	4.6	U	4.6	0.10	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,1-Dichloroethane	4.6	U	4.6	0.41	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
cis-1,2-Dichloroethene	4.6	U	4.6	0.39	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
2-Butanone (MEK)	4.6	U	4.6	2.0	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Chloroform	4.6	U	4.6	0.40	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,1,1-Trichloroethane	4.6	U	4.6	0.28	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Carbon tetrachloride	4.6	U	4.6	0.049	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Benzene	4.6	U	4.6	0.39	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,2-Dichloroethane	4.6	U	4.6	0.80	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Trichloroethene	4.6	U	4.6	0.52	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,4-Dioxane	91	U	91	13	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Toluene	4.6	U	4.6	0.17	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Tetrachloroethene	4.6	U	4.6	0.27	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Chlorobenzene	4.6	U	4.6	0.10	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Ethylbenzene	4.6	U	4.6	0.062	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
m-Xylene & p-Xylene	4.6	U	4.6	0.35	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
o-Xylene	4.6	U	4.6	0.048	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
Xylenes, Total	9.1	U	9.1	0.048	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
N-Propylbenzene	4.6	U	4.6	0.28	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,3,5-Trimethylbenzene	4.6	U	4.6	0.20	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
tert-Butylbenzene	4.6	U	4.6	0.23	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,2,4-Trimethylbenzene	4.6	U	4.6	0.11	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
sec-Butylbenzene	4.6	U	4.6	0.10	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,4-Dichlorobenzene	4.6	U	4.6	0.35	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
1,2-Dichlorobenzene	4.6	U	4.6	0.12	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1
n-Butylbenzene	4.6	U	4.6	0.24	ug/Kg	☼	10/27/14 10:45	11/04/14 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*35 - 145*	*10/27/14 10:45*	*11/04/14 12:10*	*1*
Toluene-d8 (Surr)	*95*		*40 - 175*	*10/27/14 10:45*	*11/04/14 12:10*	*1*
4-Bromofluorobenzene	*102*		*30 - 200*	*10/27/14 10:45*	*11/04/14 12:10*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*10/27/14 10:45*	*11/04/14 12:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Acenaphthene	**56**	**J**	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Acenaphthylene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Anthracene	**320**	**J**	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Benzo[a]anthracene	**890**		390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Benzo[a]pyrene	**800**		390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Benzo[b]fluoranthene	**800**		390	27	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Benzo[g,h,i]perylene	**390**		390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Benzo[k]fluoranthene	**680**		390	35	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1

Client Sample ID: RXR14A6.59--8.8024102014
Date Collected: 10/24/14 11:55
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-1
Matrix: Solid
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**860**		390	21	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Phenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Dibenz(a,h)anthracene	**180**	**J**	390	13	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Fluoranthene	**2100**		390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Fluorene	**65**	**J**	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Indeno[1,2,3-cd]pyrene	**340**	**J**	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Naphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
2-Methylphenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Phenanthrene	**1100**		390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Pyrene	**1600**		390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
3 & 4 Methylphenol	790	U	790	87	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
2-Chloronaphthalene	390	U	390	50	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Dibenzofuran	**27**	**J**	390	19	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Hexachlorobenzene	390	U	390	54	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1
Pentachlorophenol	970	U	970	80	ug/Kg	☼	11/05/14 10:58	11/11/14 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*35 - 110*	*11/05/14 10:58*	*11/11/14 15:09*	*1*
Terphenyl-d14 (Surr)	*77*		*30 - 130*	*11/05/14 10:58*	*11/11/14 15:09*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.0	U	2.0	0.24	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
gamma-BHC (Lindane)	2.0	U	2.0	0.36	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
beta-BHC	2.0	U	2.0	0.31	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
delta-BHC	2.0	U	2.0	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Heptachlor	2.0	U	2.0	0.38	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Aldrin	2.0	U	2.0	0.23	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
gamma-Chlordane	2.0	U	2.0	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
alpha-Chlordane	2.0	U	2.0	0.28	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
4,4'-DDE	2.0	U	2.0	0.28	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Endosulfan I	2.0	U	2.0	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Dieldrin	2.0	U	2.0	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Endrin	2.0	U	2.0	0.44	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
4,4'-DDD	2.0	U	2.0	0.28	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Endosulfan II	2.0	U	2.0	0.44	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
4,4'-DDT	2.0	U	2.0	0.54	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Endosulfan sulfate	**0.59**	**J**	2.0	0.48	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Chlordane (technical)	20	U	20	0.75	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1
Mirex	3.8	U	3.8	3.8	ug/Kg	☼	11/06/14 17:25	11/29/14 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*50 - 120*	*11/06/14 17:25*	*11/29/14 09:19*	*1*
Tetrachloro-m-xylene	*93*		*50 - 120*	*11/06/14 17:25*	*11/29/14 09:19*	*1*
DCB Decachlorobiphenyl	*86*		*45 - 115*	*11/06/14 17:25*	*11/29/14 09:19*	*1*
DCB Decachlorobiphenyl	*103*		*45 - 115*	*11/06/14 17:25*	*11/29/14 09:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	20	U	20	3.7	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1

Client Sample ID: RXR14A6.59--8.8024102014
Date Collected: 10/24/14 11:55
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-1
Matrix: Solid
Percent Solids: 86.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	20	U	20	2.3	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1
PCB-1232	20	U	20	6.8	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1
PCB-1242	20	U	20	2.4	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1
PCB-1248	20	U	20	1.6	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1
PCB-1254	20	U	20	1.1	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1
PCB-1260	20	U	20	3.7	ug/Kg	☼	11/06/14 17:25	11/19/14 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 130*	*11/06/14 17:25*	*11/19/14 18:18*	*1*
Tetrachloro-m-xylene	*107*		*30 - 130*	*11/06/14 17:25*	*11/19/14 18:18*	*1*
DCB Decachlorobiphenyl	*93*		*45 - 125*	*11/06/14 17:25*	*11/19/14 18:18*	*1*
DCB Decachlorobiphenyl	*88*		*45 - 125*	*11/06/14 17:25*	*11/19/14 18:18*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	2.1	ug/Kg	☼	11/03/14 17:50	11/06/14 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*186*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 18:24*	*1*
2,4-Dichlorophenylacetic acid	*137*		*69 - 150*	*11/03/14 17:50*	*11/06/14 18:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.9**		0.93	0.28	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Barium	**13.6**		4.6	0.35	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Beryllium	**0.18**	**J**	0.46	0.011	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Cadmium	**0.074**	**J**	0.46	0.053	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Chromium	**8.3**		0.93	0.074	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Copper	**7.6**		2.3	0.47	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Lead	**27.1**	**B**	0.93	0.20	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Manganese	**96.5**		0.93	0.11	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Nickel	**4.0**		0.93	0.10	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Selenium	2.3	U	2.3	0.59	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Silver	**0.20**	**J**	0.46	0.076	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1
Zinc	**22.5**		1.9	1.5	mg/Kg	☼	11/03/14 10:30	11/04/14 15:42	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**	**B**	0.045	0.0096	mg/Kg	☼	11/19/14 14:00	11/20/14 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.2	U	2.2	0.56	mg/Kg	☼	11/11/14 07:30	11/11/14 12:17	1
Cr (III)	**8.3**		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.54	U	0.54	0.087	mg/Kg	☼	11/07/14 15:30	11/07/14 19:07	1
Total Organic Carbon	**4010**	**B**	1000	120	mg/Kg			10/31/14 06:52	1
Percent Solids	**86.8**		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	**10.0**				%			10/29/14 13:32	1

Client Sample ID: RXR14A6.59--8.8024102014 — **Lab Sample ID: 200-25015-1**
Date Collected: 10/24/14 11:55 — **Matrix: Solid**
Date Received: 10/25/14 10:00

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Sand	73.3				%			10/29/14 13:32	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Coarse Sand	10.2				%			10/29/14 13:32	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Medium Sand	29.9				%			10/29/14 13:32	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Fine Sand	33.2				%			10/29/14 13:32	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Fines	16.7				%			10/29/14 13:32	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			10/29/14 13:32	1
Sieve Size #4 - Percent Finer	90.0				% Passing			10/29/14 13:32	1
Sieve Size #10 - Percent Finer	79.8				% Passing			10/29/14 13:32	1
Sieve Size #20 - Percent Finer	70.2				% Passing			10/29/14 13:32	1
Sieve Size #40 - Percent Finer	49.9				% Passing			10/29/14 13:32	1
Sieve Size #60 - Percent Finer	30.6				% Passing			10/29/14 13:32	1
Sieve Size #80 - Percent Finer	24.3				% Passing			10/29/14 13:32	1
Sieve Size #100 - Percent Finer	21.6				% Passing			10/29/14 13:32	1
Sieve Size #200 - Percent Finer	16.7				% Passing			10/29/14 13:32	1

Client Sample ID: RXR14B-8.80--9.2024102014 — **Lab Sample ID: 200-25015-2**
Date Collected: 10/24/14 12:00 — **Matrix: Solid**
Date Received: 10/25/14 10:00 — **Percent Solids: 87.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.6	U	3.6	0.47	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,1-Dichloroethene	3.6	U	3.6	0.20	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Acetone	3.5	J	3.6	3.0	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Methylene Chloride	1.0	J B	3.6	0.40	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
trans-1,2-Dichloroethene	3.6	U	3.6	0.060	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Methyl tert-butyl ether	3.6	U	3.6	0.24	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,3-Dichlorobenzene	3.6	U	3.6	0.079	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,1-Dichloroethane	3.6	U	3.6	0.32	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
cis-1,2-Dichloroethene	3.6	U	3.6	0.31	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
2-Butanone (MEK)	3.6	U	3.6	1.6	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Chloroform	3.6	U	3.6	0.32	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,1,1-Trichloroethane	3.6	U	3.6	0.22	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Carbon tetrachloride	3.6	U	3.6	0.039	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Benzene	3.6	U	3.6	0.31	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,2-Dichloroethane	3.6	U	3.6	0.63	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Trichloroethene	3.6	U	3.6	0.41	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,4-Dioxane	72	U	72	10	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Toluene	3.6	U	3.6	0.14	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Tetrachloroethene	3.6	U	3.6	0.21	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Chlorobenzene	3.6	U	3.6	0.079	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Ethylbenzene	3.6	U	3.6	0.049	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
m-Xylene & p-Xylene	3.6	U	3.6	0.27	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR14B-8.80--9.2024102014
Date Collected: 10/24/14 12:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-2
Matrix: Solid
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	3.6	U	3.6	0.038	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
Xylenes, Total	7.2	U	7.2	0.038	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
N-Propylbenzene	3.6	U	3.6	0.22	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,3,5-Trimethylbenzene	3.6	U	3.6	0.16	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
tert-Butylbenzene	3.6	U	3.6	0.18	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,2,4-Trimethylbenzene	3.6	U	3.6	0.086	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
sec-Butylbenzene	3.6	U	3.6	0.079	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,4-Dichlorobenzene	3.6	U	3.6	0.27	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
1,2-Dichlorobenzene	3.6	U	3.6	0.094	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1
n-Butylbenzene	3.6	U	3.6	0.19	ug/Kg	☼	10/27/14 10:45	11/03/14 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*35 - 145*	*10/27/14 10:45*	*11/03/14 18:31*	*1*
Toluene-d8 (Surr)	*94*		*40 - 175*	*10/27/14 10:45*	*11/03/14 18:31*	*1*
4-Bromofluorobenzene	*94*		*30 - 200*	*10/27/14 10:45*	*11/03/14 18:31*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*10/27/14 10:45*	*11/03/14 18:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Acenaphthene	380	U	380	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Acenaphthylene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Anthracene	380	U	380	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Benzo[a]anthracene	380	U	380	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Benzo[a]pyrene	380	U	380	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Benzo[b]fluoranthene	380	U	380	27	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Benzo[g,h,i]perylene	380	U	380	15	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Benzo[k]fluoranthene	380	U	380	35	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Chrysene	380	U	380	21	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Phenol	380	U	380	46	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Dibenz(a,h)anthracene	380	U	380	13	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Fluoranthene	380	U	380	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Fluorene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Indeno[1,2,3-cd]pyrene	380	U	380	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Naphthalene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
2-Methylphenol	380	U	380	46	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Phenanthrene	380	U	380	14	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Pyrene	380	U	380	16	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
3 & 4 Methylphenol	770	U	770	85	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
2-Chloronaphthalene	380	U	380	50	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Dibenzofuran	380	U	380	18	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Hexachlorobenzene	380	U	380	53	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1
Pentachlorophenol	960	U	960	79	ug/Kg	☼	11/05/14 10:58	11/11/14 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*35 - 110*	*11/05/14 10:58*	*11/11/14 15:47*	*1*
Terphenyl-d14 (Surr)	*86*		*30 - 130*	*11/05/14 10:58*	*11/11/14 15:47*	*1*

Client Sample ID: RXR14B-8.80--9.2024102014
Date Collected: 10/24/14 12:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-2
Matrix: Solid
Percent Solids: 87.2

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.9	U	1.9	0.24	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
gamma-BHC (Lindane)	1.9	U	1.9	0.35	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
beta-BHC	1.9	U	1.9	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
delta-BHC	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Heptachlor	1.9	U	1.9	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Aldrin	1.9	U	1.9	0.23	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
gamma-Chlordane	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
alpha-Chlordane	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
4,4'-DDE	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Endosulfan I	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Dieldrin	1.9	U	1.9	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Endrin	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
4,4'-DDD	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Endosulfan II	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
4,4'-DDT	1.9	U	1.9	0.53	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Endosulfan sulfate	1.9	U	1.9	0.47	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Chlordane (technical)	19	U	19	0.73	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1
Mirex	3.7	U	3.7	3.7	ug/Kg	☼	11/06/14 17:25	11/29/14 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*50 - 120*	*11/06/14 17:25*	*11/29/14 09:44*	*1*
Tetrachloro-m-xylene	*96*		*50 - 120*	*11/06/14 17:25*	*11/29/14 09:44*	*1*
DCB Decachlorobiphenyl	*89*		*45 - 115*	*11/06/14 17:25*	*11/29/14 09:44*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 115*	*11/06/14 17:25*	*11/29/14 09:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1221	19	U	19	2.3	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1232	19	U	19	6.7	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1242	19	U	19	2.4	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1248	19	U	19	1.6	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1254	19	U	19	1.1	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1
PCB-1260	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/19/14 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 130*	*11/06/14 17:25*	*11/19/14 18:43*	*1*
Tetrachloro-m-xylene	*108*		*30 - 130*	*11/06/14 17:25*	*11/19/14 18:43*	*1*
DCB Decachlorobiphenyl	*98*		*45 - 125*	*11/06/14 17:25*	*11/19/14 18:43*	*1*
DCB Decachlorobiphenyl	*91*		*45 - 125*	*11/06/14 17:25*	*11/19/14 18:43*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	19	U	19	2.1	ug/Kg	☼	11/03/14 17:50	11/06/14 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*173*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 18:46*	*1*
2,4-Dichlorophenylacetic acid	*128*		*69 - 150*	*11/03/14 17:50*	*11/06/14 18:46*	*1*

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR14B-8.80--9.2024102014
Date Collected: 10/24/14 12:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-2
Matrix: Solid
Percent Solids: 87.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5	J	2.2	0.65	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Barium	16.6		10.8	0.82	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Beryllium	0.48	J	1.1	0.026	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Cadmium	0.19	J	1.1	0.12	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Chromium	16.0		2.2	0.17	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Copper	31.7		5.4	1.1	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Lead	6.3	B	1.1	0.23	mg/Kg	☼	11/03/14 10:30	11/04/14 15:49	1
Manganese	40.5		2.2	0.26	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Nickel	6.9		2.2	0.24	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Selenium	5.4	U	5.4	1.4	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Silver	1.1	U	1.1	0.18	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2
Zinc	28.3		4.3	3.5	mg/Kg	☼	11/03/14 10:30	11/17/14 21:28	2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	B	0.038	0.0083	mg/Kg	☼	11/19/14 14:00	11/20/14 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.3	U	2.3	0.57	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	16.0		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.57	U	0.57	0.091	mg/Kg	☼	11/07/14 15:30	11/07/14 19:09	1
Total Organic Carbon	1850	B	1000	120	mg/Kg			10/31/14 07:12	1
Percent Solids	87.2		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	2.0				%			10/29/14 13:37	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Sand	51.4				%			10/29/14 13:37	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Coarse Sand	2.5				%			10/29/14 13:37	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Medium Sand	13.3				%			10/29/14 13:37	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Fine Sand	35.6				%			10/29/14 13:37	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Fines	46.6				%			10/29/14 13:37	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			10/29/14 13:37	1
Sieve Size #4 - Percent Finer	98.0				% Passing			10/29/14 13:37	1
Sieve Size #10 - Percent Finer	95.5				% Passing			10/29/14 13:37	1
Sieve Size #20 - Percent Finer	91.9				% Passing			10/29/14 13:37	1
Sieve Size #40 - Percent Finer	82.2				% Passing			10/29/14 13:37	1
Sieve Size #60 - Percent Finer	69.0				% Passing			10/29/14 13:37	1
Sieve Size #80 - Percent Finer	62.1				% Passing			10/29/14 13:37	1
Sieve Size #100 - Percent Finer	58.3				% Passing			10/29/14 13:37	1
Sieve Size #200 - Percent Finer	46.6				% Passing			10/29/14 13:37	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR14C-9.20--9.7024102014
Date Collected: 10/24/14 12:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-3
Matrix: Solid
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.4	U	4.4	0.58	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,1-Dichloroethene	4.4	U	4.4	0.25	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Acetone	**7.5**		4.4	3.6	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Methylene Chloride	**1.4**	**J B**	4.4	0.49	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
trans-1,2-Dichloroethene	4.4	U	4.4	0.073	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Methyl tert-butyl ether	4.4	U	4.4	0.30	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,3-Dichlorobenzene	4.4	U *	4.4	0.097	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,1-Dichloroethane	4.4	U	4.4	0.40	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
cis-1,2-Dichloroethene	4.4	U	4.4	0.38	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
2-Butanone (MEK)	4.4	U	4.4	1.9	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Chloroform	4.4	U	4.4	0.39	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,1,1-Trichloroethane	4.4	U	4.4	0.27	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Carbon tetrachloride	4.4	U	4.4	0.047	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Benzene	4.4	U	4.4	0.38	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,2-Dichloroethane	4.4	U	4.4	0.76	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Trichloroethene	4.4	U	4.4	0.50	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,4-Dioxane	88	U	88	12	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Toluene	**0.30**	**J B**	4.4	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Tetrachloroethene	4.4	U	4.4	0.25	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Chlorobenzene	4.4	U	4.4	0.097	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Ethylbenzene	4.4	U	4.4	0.060	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
m-Xylene & p-Xylene	4.4	U	4.4	0.33	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
o-Xylene	4.4	U	4.4	0.047	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
Xylenes, Total	8.8	U	8.8	0.047	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
N-Propylbenzene	4.4	U *	4.4	0.27	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,3,5-Trimethylbenzene	4.4	U *	4.4	0.19	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
tert-Butylbenzene	4.4	U *	4.4	0.22	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,2,4-Trimethylbenzene	4.4	U *	4.4	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
sec-Butylbenzene	4.4	U *	4.4	0.097	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,4-Dichlorobenzene	4.4	U *	4.4	0.33	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
1,2-Dichlorobenzene	4.4	U *	4.4	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1
n-Butylbenzene	4.4	U *	4.4	0.23	ug/Kg	☼	10/27/14 10:45	11/03/14 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*35 - 145*	*10/27/14 10:45*	*11/03/14 19:02*	*1*
Toluene-d8 (Surr)	*82*		*40 - 175*	*10/27/14 10:45*	*11/03/14 19:02*	*1*
4-Bromofluorobenzene	*89*	*	*30 - 200*	*10/27/14 10:45*	*11/03/14 19:02*	*1*
Dibromofluoromethane (Surr)	*76*		*50 - 150*	*10/27/14 10:45*	*11/03/14 19:02*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.3	U	4.3	0.57	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,1-Dichloroethene	4.3	U	4.3	0.24	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Acetone	**8.4**	*****	4.3	3.5	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Methylene Chloride	**1.0**	**J B**	4.3	0.48	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
trans-1,2-Dichloroethene	4.3	U	4.3	0.071	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Methyl tert-butyl ether	4.3	U	4.3	0.29	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,3-Dichlorobenzene	4.3	U *	4.3	0.095	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,1-Dichloroethane	4.3	U	4.3	0.39	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
cis-1,2-Dichloroethene	4.3	U	4.3	0.37	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1

Client Sample ID: RXR14C-9.20--9.7024102014
Date Collected: 10/24/14 12:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-3
Matrix: Solid
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	4.3	U *	4.3	1.9	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Chloroform	4.3	U	4.3	0.38	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,1,1-Trichloroethane	4.3	U	4.3	0.27	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Carbon tetrachloride	4.3	U	4.3	0.046	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Benzene	4.3	U	4.3	0.37	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,2-Dichloroethane	4.3	U	4.3	0.75	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Trichloroethene	4.3	U	4.3	0.49	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,4-Dioxane	86	U	86	12	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Toluene	4.3	U *	4.3	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Tetrachloroethene	4.3	U *	4.3	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Chlorobenzene	4.3	U *	4.3	0.095	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Ethylbenzene	4.3	U *	4.3	0.058	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
m-Xylene & p-Xylene	4.3	U *	4.3	0.33	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
o-Xylene	4.3	U *	4.3	0.046	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
Xylenes, Total	8.6	U *	8.6	0.046	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
N-Propylbenzene	4.3	U *	4.3	0.27	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,3,5-Trimethylbenzene	4.3	U *	4.3	0.19	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
tert-Butylbenzene	4.3	U *	4.3	0.21	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,2,4-Trimethylbenzene	4.3	U *	4.3	0.10	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
sec-Butylbenzene	4.3	U *	4.3	0.095	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,4-Dichlorobenzene	4.3	U *	4.3	0.33	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
1,2-Dichlorobenzene	4.3	U *	4.3	0.11	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1
n-Butylbenzene	4.3	U *	4.3	0.22	ug/Kg	☼	10/27/14 10:45	11/04/14 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*61*		*35 - 145*	*10/27/14 10:45*	*11/04/14 12:41*	*1*
Toluene-d8 (Surr)	*89*	*	*40 - 175*	*10/27/14 10:45*	*11/04/14 12:41*	*1*
4-Bromofluorobenzene	*89*	*	*30 - 200*	*10/27/14 10:45*	*11/04/14 12:41*	*1*
Dibromofluoromethane (Surr)	*72*		*50 - 150*	*10/27/14 10:45*	*11/04/14 12:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Acenaphthene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Acenaphthylene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Anthracene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Benzo[a]anthracene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Benzo[a]pyrene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Benzo[b]fluoranthene	390	U	390	27	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Benzo[g,h,i]perylene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Benzo[k]fluoranthene	390	U	390	35	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Chrysene	390	U	390	21	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Phenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Dibenz(a,h)anthracene	390	U	390	13	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Fluoranthene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Fluorene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Indeno[1,2,3-cd]pyrene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Naphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
2-Methylphenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Phenanthrene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1

Client Sample ID: RXR14C-9.20--9.7024102014
Date Collected: 10/24/14 12:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-3
Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
3 & 4 Methylphenol	790	U	790	87	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
2-Chloronaphthalene	390	U	390	50	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Dibenzofuran	390	U	390	19	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Hexachlorobenzene	390	U	390	54	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1
Pentachlorophenol	970	U	970	80	ug/Kg	☼	11/05/14 10:58	11/11/14 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*35 - 110*	*11/05/14 10:58*	*11/11/14 16:24*	*1*
Terphenyl-d14 (Surr)	*84*		*30 - 130*	*11/05/14 10:58*	*11/11/14 16:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.9	U	1.9	0.24	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
gamma-BHC (Lindane)	1.9	U	1.9	0.35	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
beta-BHC	1.9	U	1.9	0.31	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
delta-BHC	1.9	U	1.9	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Heptachlor	1.9	U	1.9	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Aldrin	1.9	U	1.9	0.23	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
gamma-Chlordane	1.9	U	1.9	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
alpha-Chlordane	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
4,4'-DDE	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Endosulfan I	1.9	U	1.9	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Dieldrin	1.9	U	1.9	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Endrin	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
4,4'-DDD	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Endosulfan II	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
4,4'-DDT	1.9	U	1.9	0.53	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Endosulfan sulfate	1.9	U	1.9	0.48	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Chlordane (technical)	19	U	19	0.74	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1
Mirex	3.7	U	3.7	3.7	ug/Kg	☼	11/06/14 17:25	11/29/14 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:08*	*1*
Tetrachloro-m-xylene	*99*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:08*	*1*
DCB Decachlorobiphenyl	*88*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:08*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:08*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1221	19	U	19	2.3	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1232	19	U	19	6.7	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1242	19	U	19	2.4	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1248	19	U	19	1.6	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1254	19	U	19	1.1	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1
PCB-1260	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/19/14 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 130*	*11/06/14 17:25*	*11/19/14 19:09*	*1*
Tetrachloro-m-xylene	*111*		*30 - 130*	*11/06/14 17:25*	*11/19/14 19:09*	*1*

Client Sample ID: RXR14C-9.20--9.7024102014
Date Collected: 10/24/14 12:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-3
Matrix: Solid
Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 125*	*11/06/14 17:25*	*11/19/14 19:09*	*1*
DCB Decachlorobiphenyl	*94*		*45 - 125*	*11/06/14 17:25*	*11/19/14 19:09*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	2.1	ug/Kg	☼	11/03/14 17:50	11/06/14 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*174*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 19:07*	*1*
2,4-Dichlorophenylacetic acid	*129*		*69 - 150*	*11/03/14 17:50*	*11/06/14 19:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.0**		1.1	0.32	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Barium	**59.1**		5.3	0.40	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Beryllium	**0.39**	**J**	0.53	0.013	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Cadmium	**0.16**	**J**	0.53	0.060	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Chromium	**24.3**		1.1	0.085	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Copper	**22.5**		2.7	0.54	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Lead	**7.3**	**B**	1.1	0.22	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Manganese	**67.1**		1.1	0.13	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Nickel	**8.6**		1.1	0.12	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Selenium	2.7	U	2.7	0.68	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Silver	0.53	U	0.53	0.087	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1
Zinc	**60.4**		2.1	1.7	mg/Kg	☼	11/03/14 10:30	11/04/14 15:56	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**	**J B**	0.040	0.0086	mg/Kg	☼	11/19/14 14:00	11/20/14 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.59	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	**24.3**		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.58	U	0.58	0.093	mg/Kg	☼	11/07/14 15:30	11/07/14 19:10	1
Total Organic Carbon	**2040**	**B**	1000	120	mg/Kg			10/31/14 07:19	1
Percent Solids	**86.5**		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	**7.0**				%			10/29/14 13:40	1
Sieve Size 3 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:40	1
Sand	**55.2**				%			10/29/14 13:40	1
Sieve Size 2 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:40	1
Coarse Sand	**7.5**				%			10/29/14 13:40	1
Sieve Size 1.5 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:40	1
Medium Sand	**18.2**				%			10/29/14 13:40	1
Sieve Size 1 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:40	1
Fine Sand	**29.5**				%			10/29/14 13:40	1
Sieve Size 0.75 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:40	1

Client Sample ID: RXR14C-9.20--9.7024102014 — **Lab Sample ID: 200-25015-3**
Date Collected: 10/24/14 12:05 — **Matrix: Solid**
Date Received: 10/25/14 10:00

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fines	37.8				%			10/29/14 13:40	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			10/29/14 13:40	1
Sieve Size #4 - Percent Finer	93.0				% Passing			10/29/14 13:40	1
Sieve Size #10 - Percent Finer	85.5				% Passing			10/29/14 13:40	1
Sieve Size #20 - Percent Finer	78.4				% Passing			10/29/14 13:40	1
Sieve Size #40 - Percent Finer	67.3				% Passing			10/29/14 13:40	1
Sieve Size #60 - Percent Finer	54.6				% Passing			10/29/14 13:40	1
Sieve Size #80 - Percent Finer	48.5				% Passing			10/29/14 13:40	1
Sieve Size #100 - Percent Finer	45.4				% Passing			10/29/14 13:40	1
Sieve Size #200 - Percent Finer	37.8				% Passing			10/29/14 13:40	1

Client Sample ID: RXR15A9.33--8.8024102014 — **Lab Sample ID: 200-25015-4**
Date Collected: 10/24/14 12:55 — **Matrix: Solid**
Date Received: 10/25/14 10:00 — **Percent Solids: 86.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.9	U	4.9	0.64	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,1-Dichloroethene	4.9	U	4.9	0.27	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Acetone	10		4.9	4.0	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Methylene Chloride	1.5	J B	4.9	0.55	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
trans-1,2-Dichloroethene	4.9	U	4.9	0.081	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Methyl tert-butyl ether	4.9	U	4.9	0.33	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,3-Dichlorobenzene	4.9	U	4.9	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,1-Dichloroethane	4.9	U	4.9	0.44	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
cis-1,2-Dichloroethene	4.9	U	4.9	0.42	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
2-Butanone (MEK)	4.9	U	4.9	2.1	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Chloroform	4.9	U	4.9	0.43	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,1,1-Trichloroethane	4.9	U	4.9	0.30	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Carbon tetrachloride	4.9	U	4.9	0.053	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Benzene	4.9	U	4.9	0.42	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,2-Dichloroethane	4.9	U	4.9	0.85	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Trichloroethene	4.9	U	4.9	0.56	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,4-Dioxane	97	U	97	14	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Toluene	0.24	J B	4.9	0.19	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Tetrachloroethene	4.9	U	4.9	0.28	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Chlorobenzene	4.9	U	4.9	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Ethylbenzene	4.9	U	4.9	0.066	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
m-Xylene & p-Xylene	4.9	U	4.9	0.37	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
o-Xylene	4.9	U	4.9	0.052	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
Xylenes, Total	9.7	U	9.7	0.052	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
N-Propylbenzene	4.9	U	4.9	0.30	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,3,5-Trimethylbenzene	4.9	U	4.9	0.21	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
tert-Butylbenzene	4.9	U	4.9	0.24	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,2,4-Trimethylbenzene	4.9	U	4.9	0.12	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
sec-Butylbenzene	4.9	U	4.9	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,4-Dichlorobenzene	4.9	U	4.9	0.37	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
1,2-Dichlorobenzene	4.9	U	4.9	0.13	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1
n-Butylbenzene	4.9	U	4.9	0.25	ug/Kg	☼	10/27/14 10:45	11/03/14 19:33	1

Client Sample ID: RXR15A9.33--8.8024102014
Date Collected: 10/24/14 12:55
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-4
Matrix: Solid
Percent Solids: 86.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*35 - 145*	*10/27/14 10:45*	*11/03/14 19:33*	*1*
Toluene-d8 (Surr)	*96*		*40 - 175*	*10/27/14 10:45*	*11/03/14 19:33*	*1*
4-Bromofluorobenzene	*99*		*30 - 200*	*10/27/14 10:45*	*11/03/14 19:33*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*10/27/14 10:45*	*11/03/14 19:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Acenaphthene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Acenaphthylene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Anthracene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Benzo[a]anthracene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Benzo[a]pyrene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Benzo[b]fluoranthene	390	U	390	27	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Benzo[g,h,i]perylene	390	U	390	15	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Benzo[k]fluoranthene	390	U	390	35	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Chrysene	390	U	390	21	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Phenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Dibenz(a,h)anthracene	390	U	390	13	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Fluoranthene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Fluorene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Indeno[1,2,3-cd]pyrene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Naphthalene	390	U	390	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
2-Methylphenol	390	U	390	47	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Phenanthrene	390	U	390	14	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Pyrene	390	U	390	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
3 & 4 Methylphenol	790	U	790	87	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
2-Chloronaphthalene	390	U	390	50	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Dibenzofuran	390	U	390	19	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Hexachlorobenzene	390	U	390	54	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1
Pentachlorophenol	970	U	970	80	ug/Kg	☼	11/05/14 10:58	11/11/14 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*35 - 110*	*11/05/14 10:58*	*11/11/14 17:01*	*1*
Terphenyl-d14 (Surr)	*80*		*30 - 130*	*11/05/14 10:58*	*11/11/14 17:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.9	U	1.9	0.23	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
gamma-BHC (Lindane)	1.9	U	1.9	0.34	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
beta-BHC	1.9	U	1.9	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
delta-BHC	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Heptachlor	1.9	U	1.9	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Aldrin	1.9	U	1.9	0.22	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
gamma-Chlordane	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
alpha-Chlordane	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
4,4'-DDE	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Endosulfan I	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Dieldrin	1.9	U	1.9	0.41	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Endrin	1.9	U	1.9	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
4,4'-DDD	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1

Client Sample ID: RXR15A9.33--8.8024102014
Date Collected: 10/24/14 12:55
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-4
Matrix: Solid
Percent Solids: 86.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	1.9	U	1.9	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
4,4'-DDT	1.9	U	1.9	0.52	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Endosulfan sulfate	1.9	U	1.9	0.47	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Chlordane (technical)	19	U	19	0.72	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1
Mirex	3.7	U	3.7	3.7	ug/Kg	☼	11/06/14 17:25	11/29/14 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:33*	*1*
Tetrachloro-m-xylene	*104*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:33*	*1*
DCB Decachlorobiphenyl	*85*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:33*	*1*
DCB Decachlorobiphenyl	*105*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	19	U	19	3.5	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1221	19	U	19	2.2	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1232	19	U	19	6.5	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1242	19	U	19	2.3	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1248	19	U	19	1.6	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1254	19	U	19	1.1	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1
PCB-1260	19	U	19	3.5	ug/Kg	☼	11/06/14 17:25	11/20/14 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 130*	*11/06/14 17:25*	*11/20/14 18:34*	*1*
Tetrachloro-m-xylene	*107*		*30 - 130*	*11/06/14 17:25*	*11/20/14 18:34*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 125*	*11/06/14 17:25*	*11/20/14 18:34*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 125*	*11/06/14 17:25*	*11/20/14 18:34*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	2.1	ug/Kg	☼	11/03/14 17:50	11/06/14 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*131*		*69 - 150*	*11/03/14 17:50*	*11/06/14 19:29*	*1*
2,4-Dichlorophenylacetic acid	*138*		*69 - 150*	*11/03/14 17:50*	*11/06/14 19:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.85	0.26	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Barium	**15.0**		4.3	0.32	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Beryllium	**0.22**	**J**	0.43	0.010	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Cadmium	**0.11**	**J**	0.43	0.049	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Chromium	**9.3**		0.85	0.068	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Copper	**7.0**		2.1	0.44	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Lead	**16.4**	**B**	0.85	0.18	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Manganese	**126**		0.85	0.10	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Nickel	**6.0**		0.85	0.094	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Selenium	2.1	U	2.1	0.55	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Silver	0.43	U	0.43	0.070	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1
Zinc	**27.1**		1.7	1.4	mg/Kg	☼	11/03/14 10:30	11/04/14 16:02	1

Client Sample ID: RXR15A9.33--8.8024102014

Lab Sample ID: 200-25015-4

Date Collected: 10/24/14 12:55
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 86.8

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	J B	0.044	0.0094	mg/Kg	☼	11/19/14 14:00	11/20/14 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.3	U	2.3	0.58	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	9.3		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.51	U	0.51	0.082	mg/Kg	☼	11/07/14 15:30	11/07/14 19:11	1
Total Organic Carbon	4580	B	1000	120	mg/Kg			10/31/14 07:25	1
Percent Solids	86.8		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	11.6				%			10/29/14 13:43	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:43	1
Sand	65.4				%			10/29/14 13:43	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:43	1
Coarse Sand	9.7				%			10/29/14 13:43	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:43	1
Medium Sand	27.9				%			10/29/14 13:43	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:43	1
Fine Sand	27.8				%			10/29/14 13:43	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:43	1
Fines	23.0				%			10/29/14 13:43	1
Sieve Size 0.375 inch - Percent Finer	98.5				% Passing			10/29/14 13:43	1
Sieve Size #4 - Percent Finer	88.4				% Passing			10/29/14 13:43	1
Sieve Size #10 - Percent Finer	78.7				% Passing			10/29/14 13:43	1
Sieve Size #20 - Percent Finer	67.5				% Passing			10/29/14 13:43	1
Sieve Size #40 - Percent Finer	50.8				% Passing			10/29/14 13:43	1
Sieve Size #60 - Percent Finer	36.9				% Passing			10/29/14 13:43	1
Sieve Size #80 - Percent Finer	31.7				% Passing			10/29/14 13:43	1
Sieve Size #100 - Percent Finer	29.1				% Passing			10/29/14 13:43	1
Sieve Size #200 - Percent Finer	23.0				% Passing			10/29/14 13:43	1

Client Sample ID: RXR15B-8.80--9.2024102014

Lab Sample ID: 200-25015-5

Date Collected: 10/24/14 13:00
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 77.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.9	U	7.9	1.0	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,1-Dichloroethene	7.9	U	7.9	0.44	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Acetone	35		7.9	6.5	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Methylene Chloride	2.5	J B	7.9	0.89	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
trans-1,2-Dichloroethene	7.9	U	7.9	0.13	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Methyl tert-butyl ether	1.4	J	7.9	0.54	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,3-Dichlorobenzene	7.9	U *	7.9	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,1-Dichloroethane	7.9	U	7.9	0.71	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
cis-1,2-Dichloroethene	7.9	U	7.9	0.68	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
2-Butanone (MEK)	9.6		7.9	3.5	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1

Client Sample ID: RXR15B-8.80--9.2024102014
Date Collected: 10/24/14 13:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-5
Matrix: Solid
Percent Solids: 77.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	7.9	U	7.9	0.70	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,1,1-Trichloroethane	7.9	U	7.9	0.49	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Carbon tetrachloride	7.9	U	7.9	0.085	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Benzene	7.9	U	7.9	0.68	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,2-Dichloroethane	7.9	U	7.9	1.4	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Trichloroethene	7.9	U	7.9	0.90	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,4-Dioxane	160	U	160	22	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Toluene	**0.47**	**J B**	7.9	0.30	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Tetrachloroethene	7.9	U	7.9	0.46	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Chlorobenzene	7.9	U	7.9	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Ethylbenzene	7.9	U	7.9	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
m-Xylene & p-Xylene	7.9	U	7.9	0.60	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
o-Xylene	7.9	U	7.9	0.084	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
Xylenes, Total	16	U	16	0.084	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
N-Propylbenzene	7.9	U *	7.9	0.49	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,3,5-Trimethylbenzene	7.9	U *	7.9	0.35	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
tert-Butylbenzene	7.9	U *	7.9	0.40	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,2,4-Trimethylbenzene	7.9	U *	7.9	0.19	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
sec-Butylbenzene	7.9	U *	7.9	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,4-Dichlorobenzene	7.9	U *	7.9	0.60	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
1,2-Dichlorobenzene	7.9	U *	7.9	0.21	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1
n-Butylbenzene	7.9	U *	7.9	0.41	ug/Kg	☼	10/27/14 10:45	11/03/14 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*35 - 145*	*10/27/14 10:45*	*11/03/14 20:04*	*1*
Toluene-d8 (Surr)	*91*		*40 - 175*	*10/27/14 10:45*	*11/03/14 20:04*	*1*
4-Bromofluorobenzene	*96*	*	*30 - 200*	*10/27/14 10:45*	*11/03/14 20:04*	*1*
Dibromofluoromethane (Surr)	*84*		*50 - 150*	*10/27/14 10:45*	*11/03/14 20:04*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.4	U	7.4	0.97	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,1-Dichloroethene	7.4	U	7.4	0.41	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Acetone	**46**		7.4	6.0	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Methylene Chloride	**2.5**	**J B**	7.4	0.82	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
trans-1,2-Dichloroethene	7.4	U	7.4	0.12	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Methyl tert-butyl ether	**1.6**	**J**	7.4	0.50	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,3-Dichlorobenzene	7.4	U *	7.4	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,1-Dichloroethane	7.4	U	7.4	0.66	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
cis-1,2-Dichloroethene	7.4	U	7.4	0.63	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
2-Butanone (MEK)	**14**		7.4	3.2	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Chloroform	7.4	U	7.4	0.65	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,1,1-Trichloroethane	7.4	U	7.4	0.46	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Carbon tetrachloride	7.4	U	7.4	0.079	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Benzene	7.4	U	7.4	0.63	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,2-Dichloroethane	7.4	U	7.4	1.3	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Trichloroethene	7.4	U	7.4	0.84	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,4-Dioxane	150	U	150	21	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Toluene	**0.76**	**J**	7.4	0.28	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Tetrachloroethene	7.4	U	7.4	0.43	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1

Client Sample ID: RXR15B-8.80--9.2024102014
Date Collected: 10/24/14 13:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-5
Matrix: Solid
Percent Solids: 77.7

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	7.4	U	7.4	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Ethylbenzene	7.4	U	7.4	0.10	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
m-Xylene & p-Xylene	7.4	U	7.4	0.56	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
o-Xylene	7.4	U	7.4	0.078	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
Xylenes, Total	15	U	15	0.078	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
N-Propylbenzene	7.4	U *	7.4	0.46	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,3,5-Trimethylbenzene	7.4	U *	7.4	0.32	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
tert-Butylbenzene	7.4	U *	7.4	0.37	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,2,4-Trimethylbenzene	7.4	U *	7.4	0.18	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
sec-Butylbenzene	7.4	U *	7.4	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,4-Dichlorobenzene	7.4	U *	7.4	0.56	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
1,2-Dichlorobenzene	7.4	U *	7.4	0.19	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1
n-Butylbenzene	7.4	U *	7.4	0.38	ug/Kg	☼	10/27/14 10:45	11/04/14 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*	*10/27/14 10:45*	*11/04/14 13:11*	*1*
Toluene-d8 (Surr)	*120*		*40 - 175*	*10/27/14 10:45*	*11/04/14 13:11*	*1*
4-Bromofluorobenzene	*152*	*	*30 - 200*	*10/27/14 10:45*	*11/04/14 13:11*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*10/27/14 10:45*	*11/04/14 13:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Acenaphthene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Acenaphthylene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Anthracene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Benzo[a]anthracene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Benzo[a]pyrene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Benzo[b]fluoranthene	430	U	430	30	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Benzo[g,h,i]perylene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Benzo[k]fluoranthene	430	U	430	39	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Chrysene	430	U	430	24	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Phenol	430	U	430	53	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Dibenz(a,h)anthracene	430	U	430	14	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Fluoranthene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Fluorene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Indeno[1,2,3-cd]pyrene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Naphthalene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
2-Methylphenol	430	U	430	53	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Phenanthrene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Pyrene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
3 & 4 Methylphenol	880	U	880	97	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
2-Chloronaphthalene	430	U	430	57	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Dibenzofuran	430	U	430	21	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Hexachlorobenzene	430	U	430	61	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1
Pentachlorophenol	1100	U	1100	89	ug/Kg	☼	11/05/14 10:58	11/11/14 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*35 - 110*	*11/05/14 10:58*	*11/11/14 17:38*	*1*
Terphenyl-d14 (Surr)	*95*		*30 - 130*	*11/05/14 10:58*	*11/11/14 17:38*	*1*

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR15B-8.80--9.2024102014
Date Collected: 10/24/14 13:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-5
Matrix: Solid
Percent Solids: 77.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.1	U	2.1	0.26	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
gamma-BHC (Lindane)	2.1	U	2.1	0.38	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
beta-BHC	2.1	U	2.1	0.33	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
delta-BHC	2.1	U	2.1	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Heptachlor	2.1	U	2.1	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Aldrin	2.1	U	2.1	0.24	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
gamma-Chlordane	2.1	U	2.1	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
alpha-Chlordane	2.1	U	2.1	0.29	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
4,4'-DDE	2.1	U	2.1	0.29	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Endosulfan I	2.1	U	2.1	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Dieldrin	2.1	U	2.1	0.45	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Endrin	2.1	U	2.1	0.46	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
4,4'-DDD	2.1	U	2.1	0.29	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Endosulfan II	2.1	U	2.1	0.46	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
4,4'-DDT	2.1	U	2.1	0.57	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Endosulfan sulfate	2.1	U	2.1	0.51	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Chlordane (technical)	21	U	21	0.79	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1
Mirex	4.0	U	4.0	4.0	ug/Kg	☼	11/06/14 17:25	11/29/14 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:58*	*1*
Tetrachloro-m-xylene	*87*		*50 - 120*	*11/06/14 17:25*	*11/29/14 10:58*	*1*
DCB Decachlorobiphenyl	*81*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:58*	*1*
DCB Decachlorobiphenyl	*89*		*45 - 115*	*11/06/14 17:25*	*11/29/14 10:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	21	U	21	3.9	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1221	21	U	21	2.4	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1232	21	U	21	7.2	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1242	21	U	21	2.6	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1248	21	U	21	1.7	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1254	21	U	21	1.2	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1
PCB-1260	21	U	21	3.9	ug/Kg	☼	11/06/14 17:25	11/20/14 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 130*	*11/06/14 17:25*	*11/20/14 18:59*	*1*
Tetrachloro-m-xylene	*84*		*30 - 130*	*11/06/14 17:25*	*11/20/14 18:59*	*1*
DCB Decachlorobiphenyl	*79*		*45 - 125*	*11/06/14 17:25*	*11/20/14 18:59*	*1*
DCB Decachlorobiphenyl	*59*		*45 - 125*	*11/06/14 17:25*	*11/20/14 18:59*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	22	U	22	2.4	ug/Kg	☼	11/03/14 17:50	11/06/14 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*178*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 19:50*	*1*
2,4-Dichlorophenylacetic acid	*139*		*69 - 150*	*11/03/14 17:50*	*11/06/14 19:50*	*1*

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR15B-8.80--9.2024102014
Date Collected: 10/24/14 13:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-5
Matrix: Solid
Percent Solids: 77.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.88	0.26	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Barium	5.8		4.4	0.34	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Beryllium	0.076	J	0.44	0.011	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Cadmium	0.057	J	0.44	0.050	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Chromium	4.8		0.88	0.071	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Copper	2.2		2.2	0.45	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Lead	5.0	B	0.88	0.19	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Manganese	46.1		0.88	0.11	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Nickel	2.3		0.88	0.097	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Selenium	2.2	U	2.2	0.56	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Silver	0.44	U	0.44	0.072	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1
Zinc	8.0		1.8	1.4	mg/Kg	☼	11/03/14 10:30	11/04/14 16:09	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	J B	0.046	0.010	mg/Kg	☼	11/19/14 14:00	11/20/14 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.5	U	2.5	0.62	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	4.8		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.59	U	0.59	0.094	mg/Kg	☼	11/07/14 15:30	11/07/14 19:12	1
Total Organic Carbon	1730	B	1000	120	mg/Kg			10/31/14 07:32	1
Percent Solids	77.7		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	4.5				%			10/29/14 13:46	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Sand	76.8				%			10/29/14 13:46	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Coarse Sand	4.9				%			10/29/14 13:46	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Medium Sand	32.8				%			10/29/14 13:46	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Fine Sand	39.1				%			10/29/14 13:46	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Fines	18.7				%			10/29/14 13:46	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			10/29/14 13:46	1
Sieve Size #4 - Percent Finer	95.5				% Passing			10/29/14 13:46	1
Sieve Size #10 - Percent Finer	90.6				% Passing			10/29/14 13:46	1
Sieve Size #20 - Percent Finer	79.8				% Passing			10/29/14 13:46	1
Sieve Size #40 - Percent Finer	57.8				% Passing			10/29/14 13:46	1
Sieve Size #60 - Percent Finer	35.2				% Passing			10/29/14 13:46	1
Sieve Size #80 - Percent Finer	26.9				% Passing			10/29/14 13:46	1
Sieve Size #100 - Percent Finer	23.4				% Passing			10/29/14 13:46	1
Sieve Size #200 - Percent Finer	18.7				% Passing			10/29/14 13:46	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR15C-9.20--9.7024102014
Date Collected: 10/24/14 13:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-6
Matrix: Solid
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.7	U	6.7	0.88	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,1-Dichloroethene	6.7	U	6.7	0.37	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Acetone	**30**		6.7	5.5	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Methylene Chloride	**2.0**	**J B**	6.7	0.75	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
trans-1,2-Dichloroethene	6.7	U	6.7	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Methyl tert-butyl ether	**1.6**	**J**	6.7	0.45	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,3-Dichlorobenzene	6.7	U *	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,1-Dichloroethane	6.7	U	6.7	0.60	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
cis-1,2-Dichloroethene	6.7	U	6.7	0.57	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
2-Butanone (MEK)	**9.6**		6.7	2.9	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Chloroform	6.7	U	6.7	0.59	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,1,1-Trichloroethane	6.7	U	6.7	0.41	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Carbon tetrachloride	6.7	U	6.7	0.072	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Benzene	6.7	U	6.7	0.57	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,2-Dichloroethane	6.7	U	6.7	1.2	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Trichloroethene	6.7	U	6.7	0.76	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,4-Dioxane	130	U	130	19	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Toluene	**0.41**	**J B**	6.7	0.25	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Tetrachloroethene	6.7	U	6.7	0.39	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Chlorobenzene	6.7	U	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Ethylbenzene	6.7	U	6.7	0.091	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
m-Xylene & p-Xylene	6.7	U	6.7	0.51	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
o-Xylene	6.7	U	6.7	0.071	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
Xylenes, Total	13	U	13	0.071	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
N-Propylbenzene	6.7	U *	6.7	0.41	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,3,5-Trimethylbenzene	6.7	U *	6.7	0.29	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
tert-Butylbenzene	6.7	U *	6.7	0.33	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,2,4-Trimethylbenzene	6.7	U *	6.7	0.16	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
sec-Butylbenzene	6.7	U *	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,4-Dichlorobenzene	6.7	U *	6.7	0.51	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
1,2-Dichlorobenzene	6.7	U *	6.7	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1
n-Butylbenzene	6.7	U *	6.7	0.35	ug/Kg	☼	10/27/14 10:45	11/03/14 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*35 - 145*	*10/27/14 10:45*	*11/03/14 20:35*	*1*
Toluene-d8 (Surr)	*108*		*40 - 175*	*10/27/14 10:45*	*11/03/14 20:35*	*1*
4-Bromofluorobenzene	*117*	*	*30 - 200*	*10/27/14 10:45*	*11/03/14 20:35*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*10/27/14 10:45*	*11/03/14 20:35*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**3.1**	**J**	6.7	0.89	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,1-Dichloroethene	6.7	U	6.7	0.38	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Acetone	**26**		6.7	5.5	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Methylene Chloride	**2.5**	**J B**	6.7	0.75	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
trans-1,2-Dichloroethene	**0.85**	**J**	6.7	0.11	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Methyl tert-butyl ether	**1.1**	**J**	6.7	0.46	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,3-Dichlorobenzene	6.7	U *	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,1-Dichloroethane	6.7	U	6.7	0.60	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
cis-1,2-Dichloroethene	**13**		6.7	0.58	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1

Client Sample ID: RXR15C-9.20--9.7024102014
Date Collected: 10/24/14 13:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-6
Matrix: Solid
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**6.8**		6.7	3.0	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Chloroform	6.7	U	6.7	0.59	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,1,1-Trichloroethane	6.7	U	6.7	0.42	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Carbon tetrachloride	6.7	U	6.7	0.072	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Benzene	6.7	U	6.7	0.58	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,2-Dichloroethane	6.7	U	6.7	1.2	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Trichloroethene	6.7	U	6.7	0.76	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,4-Dioxane	130	U	130	19	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Toluene	6.7	U	6.7	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Tetrachloroethene	6.7	U	6.7	0.39	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Chlorobenzene	6.7	U	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Ethylbenzene	6.7	U	6.7	0.091	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
m-Xylene & p-Xylene	6.7	U	6.7	0.51	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
o-Xylene	6.7	U	6.7	0.071	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
Xylenes, Total	13	U	13	0.071	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
N-Propylbenzene	6.7	U *	6.7	0.42	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,3,5-Trimethylbenzene	**0.49**	**J ***	6.7	0.30	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
tert-Butylbenzene	6.7	U *	6.7	0.34	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,2,4-Trimethylbenzene	6.7	U *	6.7	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
sec-Butylbenzene	6.7	U *	6.7	0.15	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,4-Dichlorobenzene	6.7	U *	6.7	0.51	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
1,2-Dichlorobenzene	**0.47**	**J * B**	6.7	0.17	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1
n-Butylbenzene	6.7	U *	6.7	0.35	ug/Kg	☼	10/27/14 10:45	11/04/14 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*35 - 145*	*10/27/14 10:45*	*11/04/14 15:55*	*1*
Toluene-d8 (Surr)	*126*		*40 - 175*	*10/27/14 10:45*	*11/04/14 15:55*	*1*
4-Bromofluorobenzene	*137*	*	*30 - 200*	*10/27/14 10:45*	*11/04/14 15:55*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*10/27/14 10:45*	*11/04/14 15:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Acenaphthene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Acenaphthylene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Anthracene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Benzo[a]anthracene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Benzo[a]pyrene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Benzo[b]fluoranthene	430	U	430	30	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Benzo[g,h,i]perylene	430	U	430	17	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Benzo[k]fluoranthene	430	U	430	39	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Chrysene	430	U	430	24	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Phenol	430	U	430	53	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Dibenz(a,h)anthracene	430	U	430	14	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Fluoranthene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Fluorene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Indeno[1,2,3-cd]pyrene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Naphthalene	430	U	430	20	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
2-Methylphenol	430	U	430	53	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Phenanthrene	430	U	430	16	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1

Client Sample ID: RXR15C-9.20--9.7024102014
Date Collected: 10/24/14 13:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-6
Matrix: Solid
Percent Solids: 76.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	430	U	430	18	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
3 & 4 Methylphenol	880	U	880	97	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
2-Chloronaphthalene	430	U	430	57	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Dibenzofuran	430	U	430	21	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Hexachlorobenzene	430	U	430	61	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1
Pentachlorophenol	1100	U	1100	90	ug/Kg	☼	11/05/14 10:58	11/11/14 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*35 - 110*	*11/05/14 10:58*	*11/11/14 18:15*	*1*
Terphenyl-d14 (Surr)	*82*		*30 - 130*	*11/05/14 10:58*	*11/11/14 18:15*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.2	U	2.2	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
gamma-BHC (Lindane)	2.2	U	2.2	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
beta-BHC	**0.44**	**J**	2.2	0.35	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
delta-BHC	2.2	U	2.2	0.45	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Heptachlor	2.2	U	2.2	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Aldrin	2.2	U	2.2	0.26	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
gamma-Chlordane	2.2	U	2.2	0.45	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
alpha-Chlordane	2.2	U	2.2	0.31	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
4,4'-DDE	2.2	U	2.2	0.31	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Endosulfan I	2.2	U	2.2	0.45	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Dieldrin	2.2	U	2.2	0.48	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Endrin	2.2	U	2.2	0.49	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
4,4'-DDD	2.2	U	2.2	0.31	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Endosulfan II	2.2	U	2.2	0.49	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
4,4'-DDT	2.2	U	2.2	0.60	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Endosulfan sulfate	2.2	U	2.2	0.54	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Chlordane (technical)	22	U	22	0.84	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1
Mirex	4.2	U	4.2	4.2	ug/Kg	☼	11/06/14 17:25	11/29/14 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*50 - 120*	*11/06/14 17:25*	*11/29/14 11:22*	*1*
Tetrachloro-m-xylene	*94*		*50 - 120*	*11/06/14 17:25*	*11/29/14 11:22*	*1*
DCB Decachlorobiphenyl	*86*		*45 - 115*	*11/06/14 17:25*	*11/29/14 11:22*	*1*
DCB Decachlorobiphenyl	*92*		*45 - 115*	*11/06/14 17:25*	*11/29/14 11:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22	U	22	4.1	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1221	22	U	22	2.6	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1232	22	U	22	7.6	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1242	22	U	22	2.7	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1248	22	U	22	1.8	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1254	22	U	22	1.3	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1
PCB-1260	22	U	22	4.1	ug/Kg	☼	11/06/14 17:25	11/19/14 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 130*	*11/06/14 17:25*	*11/19/14 20:25*	*1*
Tetrachloro-m-xylene	*91*		*30 - 130*	*11/06/14 17:25*	*11/19/14 20:25*	*1*

Client Sample ID: RXR15C-9.20--9.7024102014
Date Collected: 10/24/14 13:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-6
Matrix: Solid
Percent Solids: 76.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*45 - 125*	*11/06/14 17:25*	*11/19/14 20:25*	*1*
DCB Decachlorobiphenyl	*58*		*45 - 125*	*11/06/14 17:25*	*11/19/14 20:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	22	U	22	2.4	ug/Kg	☼	11/03/14 17:50	11/06/14 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*184*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 21:38*	*1*
2,4-Dichlorophenylacetic acid	*133*		*69 - 150*	*11/03/14 17:50*	*11/06/14 21:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		1.2	0.35	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Barium	**17.3**		5.9	0.45	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Beryllium	**0.33**	**J**	0.59	0.014	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Cadmium	**0.17**	**J**	0.59	0.067	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Chromium	**12.9**		1.2	0.095	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Copper	**5.9**		3.0	0.60	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Lead	**5.5**	**B**	1.2	0.25	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Manganese	**157**		1.2	0.14	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Nickel	**8.1**		1.2	0.13	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Selenium	3.0	U	3.0	0.76	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Silver	0.59	U	0.59	0.097	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1
Zinc	**22.2**		2.4	1.9	mg/Kg	☼	11/03/14 10:30	11/04/14 16:16	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J B**	0.048	0.010	mg/Kg	☼	11/19/14 14:00	11/20/14 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.7	U	2.7	0.68	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	**12.9**		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.63	U	0.63	0.10	mg/Kg	☼	11/07/14 15:30	11/07/14 19:13	1
Total Organic Carbon	**21300**	**B**	1000	120	mg/Kg			10/31/14 07:38	1
Percent Solids	**76.1**		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	**3.0**				%			10/29/14 13:47	1
Sieve Size 3 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1
Sand	**39.7**				%			10/29/14 13:47	1
Sieve Size 2 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1
Coarse Sand	**2.1**				%			10/29/14 13:47	1
Sieve Size 1.5 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1
Medium Sand	**17.4**				%			10/29/14 13:47	1
Sieve Size 1 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1
Fine Sand	**20.2**				%			10/29/14 13:47	1
Sieve Size 0.75 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1

Client Sample ID: RXR15C-9.20--9.7024102014
Lab Sample ID: 200-25015-6

Date Collected: 10/24/14 13:05
Matrix: Solid
Date Received: 10/25/14 10:00

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fines	**57.3**				%			10/29/14 13:47	1
Sieve Size 0.375 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:47	1
Sieve Size #4 - Percent Finer	**97.0**				% Passing			10/29/14 13:47	1
Sieve Size #10 - Percent Finer	**94.9**				% Passing			10/29/14 13:47	1
Sieve Size #20 - Percent Finer	**88.6**				% Passing			10/29/14 13:47	1
Sieve Size #40 - Percent Finer	**77.5**				% Passing			10/29/14 13:47	1
Sieve Size #60 - Percent Finer	**66.0**				% Passing			10/29/14 13:47	1
Sieve Size #80 - Percent Finer	**62.4**				% Passing			10/29/14 13:47	1
Sieve Size #100 - Percent Finer	**60.6**				% Passing			10/29/14 13:47	1
Sieve Size #200 - Percent Finer	**57.3**				% Passing			10/29/14 13:47	1

Client Sample ID: RXR16A9.08--8.8024102014
Lab Sample ID: 200-25015-7

Date Collected: 10/24/14 14:00
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 86.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.9	U	6.9	0.91	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,1-Dichloroethene	6.9	U	6.9	0.39	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Acetone	**9.7**		6.9	5.6	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Methylene Chloride	**1.7**	**J B**	6.9	0.77	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
trans-1,2-Dichloroethene	6.9	U	6.9	0.11	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Methyl tert-butyl ether	6.9	U	6.9	0.47	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,3-Dichlorobenzene	6.9	U *	6.9	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,1-Dichloroethane	**0.73**	**J**	6.9	0.62	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
cis-1,2-Dichloroethene	**3.0**	**J**	6.9	0.59	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
2-Butanone (MEK)	6.9	U	6.9	3.0	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Chloroform	6.9	U	6.9	0.61	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,1,1-Trichloroethane	6.9	U	6.9	0.43	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Carbon tetrachloride	6.9	U	6.9	0.074	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Benzene	6.9	U	6.9	0.59	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,2-Dichloroethane	6.9	U	6.9	1.2	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Trichloroethene	6.9	U	6.9	0.78	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,4-Dioxane	140	U	140	19	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Toluene	**0.27**	**J B**	6.9	0.26	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Tetrachloroethene	6.9	U	6.9	0.40	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Chlorobenzene	6.9	U	6.9	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Ethylbenzene	6.9	U	6.9	0.094	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
m-Xylene & p-Xylene	6.9	U	6.9	0.52	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
o-Xylene	6.9	U	6.9	0.073	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
Xylenes, Total	14	U	14	0.073	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
N-Propylbenzene	6.9	U *	6.9	0.43	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,3,5-Trimethylbenzene	6.9	U *	6.9	0.30	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
tert-Butylbenzene	6.9	U *	6.9	0.34	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,2,4-Trimethylbenzene	6.9	U *	6.9	0.17	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
sec-Butylbenzene	6.9	U *	6.9	0.15	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,4-Dichlorobenzene	6.9	U *	6.9	0.52	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
1,2-Dichlorobenzene	6.9	U *	6.9	0.18	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1
n-Butylbenzene	6.9	U *	6.9	0.36	ug/Kg	☼	10/27/14 10:45	11/03/14 21:07	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR16A9.08--8.8024102014
Date Collected: 10/24/14 14:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-7
Matrix: Solid
Percent Solids: 86.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*79*		*35 - 145*	*10/27/14 10:45*	*11/03/14 21:07*	*1*
Toluene-d8 (Surr)	*116*		*40 - 175*	*10/27/14 10:45*	*11/03/14 21:07*	*1*
4-Bromofluorobenzene	*116*	*	*30 - 200*	*10/27/14 10:45*	*11/03/14 21:07*	*1*
Dibromofluoromethane (Surr)	*91*		*50 - 150*	*10/27/14 10:45*	*11/03/14 21:07*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	18	U *	18	2.4	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,1-Dichloroethene	18	U *	18	1.0	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Acetone	**55**	*	18	15	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Methylene Chloride	**16**	J * B	18	2.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
trans-1,2-Dichloroethene	18	U *	18	0.31	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Methyl tert-butyl ether	18	U *	18	1.3	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,3-Dichlorobenzene	18	U *	18	0.40	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,1-Dichloroethane	18	U *	18	1.7	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
cis-1,2-Dichloroethene	18	U *	18	1.6	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
2-Butanone (MEK)	18	U *	18	8.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Chloroform	18	U *	18	1.6	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,1,1-Trichloroethane	18	U *	18	1.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Carbon tetrachloride	18	U *	18	0.20	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Benzene	18	U *	18	1.6	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,2-Dichloroethane	18	U *	18	3.2	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Trichloroethene	18	U *	18	2.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,4-Dioxane	370	U *	370	52	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Toluene	18	U *	18	0.70	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Tetrachloroethene	18	U *	18	1.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Chlorobenzene	18	U *	18	0.40	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Ethylbenzene	18	U *	18	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
m-Xylene & p-Xylene	18	U *	18	1.4	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
o-Xylene	18	U *	18	0.20	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
Xylenes, Total	37	U *	37	0.20	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
N-Propylbenzene	18	U *	18	1.1	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,3,5-Trimethylbenzene	18	U *	18	0.81	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
tert-Butylbenzene	18	U *	18	0.92	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,2,4-Trimethylbenzene	18	U *	18	0.44	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
sec-Butylbenzene	18	U *	18	0.40	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,4-Dichlorobenzene	18	U *	18	1.4	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
1,2-Dichlorobenzene	18	U *	18	0.48	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1
n-Butylbenzene	18	U *	18	0.96	ug/Kg	☼	10/27/14 10:45	11/04/14 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*89*	*	*35 - 145*	*10/27/14 10:45*	*11/04/14 16:26*	*1*
Toluene-d8 (Surr)	*105*	*	*40 - 175*	*10/27/14 10:45*	*11/04/14 16:26*	*1*
4-Bromofluorobenzene	*122*	*	*30 - 200*	*10/27/14 10:45*	*11/04/14 16:26*	*1*
Dibromofluoromethane (Surr)	*104*	*	*50 - 150*	*10/27/14 10:45*	*11/04/14 16:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Acenaphthene	380	U	380	15	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Acenaphthylene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR16A9.08--8.8024102014
Date Collected: 10/24/14 14:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-7
Matrix: Solid
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	380	U	380	16	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Benzo[a]anthracene	**70**	**J**	380	15	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Benzo[a]pyrene	380	U	380	14	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Benzo[b]fluoranthene	**46**	**J**	380	27	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Benzo[g,h,i]perylene	380	U	380	15	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Benzo[k]fluoranthene	**65**	**J**	380	35	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Chrysene	**71**	**J**	380	21	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Phenol	380	U	380	46	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Dibenz(a,h)anthracene	380	U	380	13	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Fluoranthene	**87**	**J**	380	14	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Fluorene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Indeno[1,2,3-cd]pyrene	380	U	380	16	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Naphthalene	380	U	380	17	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
2-Methylphenol	380	U	380	46	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Phenanthrene	**62**	**J**	380	14	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Pyrene	**77**	**J**	380	16	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
3 & 4 Methylphenol	780	U	780	86	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
2-Chloronaphthalene	380	U	380	50	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Dibenzofuran	380	U	380	19	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Hexachlorobenzene	380	U	380	53	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1
Pentachlorophenol	960	U	960	79	ug/Kg	☼	11/05/14 10:58	11/14/14 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*35 - 110*	*11/05/14 10:58*	*11/14/14 15:47*	*1*
Terphenyl-d14 (Surr)	*89*		*30 - 130*	*11/05/14 10:58*	*11/14/14 15:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.9	U	1.9	0.23	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
gamma-BHC (Lindane)	1.9	U	1.9	0.35	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
beta-BHC	1.9	U	1.9	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
delta-BHC	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Heptachlor	1.9	U	1.9	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Aldrin	1.9	U	1.9	0.22	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
gamma-Chlordane	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
alpha-Chlordane	**0.38**	**J**	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
4,4'-DDE	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Endosulfan I	1.9	U	1.9	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Dieldrin	1.9	U	1.9	0.41	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Endrin	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
4,4'-DDD	1.9	U	1.9	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Endosulfan II	1.9	U	1.9	0.43	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
4,4'-DDT	1.9	U	1.9	0.53	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Endosulfan sulfate	1.9	U	1.9	0.47	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Chlordane (technical)	**3.3**	**J**	19	0.73	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1
Mirex	3.7	U	3.7	3.7	ug/Kg	☼	11/06/14 17:25	11/29/14 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*50 - 120*	*11/06/14 17:25*	*11/29/14 11:47*	*1*
Tetrachloro-m-xylene	*93*		*50 - 120*	*11/06/14 17:25*	*11/29/14 11:47*	*1*

Client Sample ID: RXR16A9.08--8.8024102014
Date Collected: 10/24/14 14:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-7
Matrix: Solid
Percent Solids: 86.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*87*		*45 - 115*	*11/06/14 17:25*	*11/29/14 11:47*	*1*
DCB Decachlorobiphenyl	*96*		*45 - 115*	*11/06/14 17:25*	*11/29/14 11:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1221	19	U	19	2.2	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1232	19	U	19	6.6	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1242	19	U	19	2.3	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1248	19	U	19	1.6	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1254	19	U	19	1.1	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1
PCB-1260	19	U	19	3.6	ug/Kg	☼	11/06/14 17:25	11/20/14 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*88*		*30 - 130*	*11/06/14 17:25*	*11/20/14 19:25*	*1*
Tetrachloro-m-xylene	*97*		*30 - 130*	*11/06/14 17:25*	*11/20/14 19:25*	*1*
DCB Decachlorobiphenyl	*84*		*45 - 125*	*11/06/14 17:25*	*11/20/14 19:25*	*1*
DCB Decachlorobiphenyl	*70*		*45 - 125*	*11/06/14 17:25*	*11/20/14 19:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	2.1	ug/Kg	☼	11/03/14 17:50	11/06/14 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*178*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 22:00*	*1*
2,4-Dichlorophenylacetic acid	*126*		*69 - 150*	*11/03/14 17:50*	*11/06/14 22:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**		0.78	0.24	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Barium	**10.9**		3.9	0.30	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Beryllium	**0.16**	**J**	0.39	0.0094	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Cadmium	**0.14**	**J**	0.39	0.045	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Chromium	**5.0**		0.78	0.063	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Copper	**6.3**		2.0	0.40	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Lead	**15.8**	**B**	0.78	0.16	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Manganese	**52.4**		0.78	0.094	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Nickel	**4.1**		0.78	0.086	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Selenium	2.0	U	2.0	0.50	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Silver	0.39	U	0.39	0.064	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1
Zinc	**55.1**		1.6	1.3	mg/Kg	☼	11/03/14 10:30	11/04/14 16:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**	**B**	0.043	0.0093	mg/Kg	☼	11/19/14 14:00	11/20/14 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.59	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	**5.0**		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.49	U	0.49	0.079	mg/Kg	☼	11/07/14 15:30	11/07/14 19:19	1

Client Sample ID: RXR16A9.08--8.8024102014 — **Lab Sample ID: 200-25015-7**
Date Collected: 10/24/14 14:00 — **Matrix: Solid**
Date Received: 10/25/14 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6900	B	1000	120	mg/Kg			10/31/14 07:45	1
Percent Solids	86.8		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	9.6				%			10/29/14 13:50	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:50	1
Sand	88.8				%			10/29/14 13:50	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:50	1
Coarse Sand	12.0				%			10/29/14 13:50	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:50	1
Medium Sand	39.4				%			10/29/14 13:50	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:50	1
Fine Sand	37.4				%			10/29/14 13:50	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:50	1
Fines	1.6				%			10/29/14 13:50	1
Sieve Size 0.375 inch - Percent Finer	96.4				% Passing			10/29/14 13:50	1
Sieve Size #4 - Percent Finer	90.4				% Passing			10/29/14 13:50	1
Sieve Size #10 - Percent Finer	78.4				% Passing			10/29/14 13:50	1
Sieve Size #20 - Percent Finer	63.7				% Passing			10/29/14 13:50	1
Sieve Size #40 - Percent Finer	39.0				% Passing			10/29/14 13:50	1
Sieve Size #60 - Percent Finer	16.9				% Passing			10/29/14 13:50	1
Sieve Size #80 - Percent Finer	10.2				% Passing			10/29/14 13:50	1
Sieve Size #100 - Percent Finer	7.0				% Passing			10/29/14 13:50	1
Sieve Size #200 - Percent Finer	1.6				% Passing			10/29/14 13:50	1

Client Sample ID: RXR16B-8.80--9.2024102014 — **Lab Sample ID: 200-25015-8**
Date Collected: 10/24/14 14:05 — **Matrix: Solid**
Date Received: 10/25/14 10:00 — **Percent Solids: 93.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.1	U	4.1	0.54	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,1-Dichloroethene	4.1	U	4.1	0.23	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Acetone	4.9		4.1	3.3	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Methylene Chloride	1.2	J B	4.1	0.46	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
trans-1,2-Dichloroethene	4.1	U	4.1	0.067	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Methyl tert-butyl ether	0.48	J	4.1	0.28	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,3-Dichlorobenzene	4.1	U	4.1	0.089	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,1-Dichloroethane	4.1	U	4.1	0.37	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
cis-1,2-Dichloroethene	1.4	J	4.1	0.35	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
2-Butanone (MEK)	4.1	U	4.1	1.8	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Chloroform	4.1	U	4.1	0.36	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,1,1-Trichloroethane	4.1	U	4.1	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Carbon tetrachloride	4.1	U	4.1	0.044	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Benzene	4.1	U	4.1	0.35	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,2-Dichloroethane	4.1	U	4.1	0.71	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Trichloroethene	4.1	U	4.1	0.46	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1

Client Sample ID: RXR16B-8.80--9.2024102014
Date Collected: 10/24/14 14:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-8
Matrix: Solid
Percent Solids: 93.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	81	U	81	11	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Toluene	4.1	U	4.1	0.15	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Tetrachloroethene	4.1	U	4.1	0.24	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Chlorobenzene	4.1	U	4.1	0.089	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Ethylbenzene	4.1	U	4.1	0.055	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
m-Xylene & p-Xylene	4.1	U	4.1	0.31	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
o-Xylene	4.1	U	4.1	0.043	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
Xylenes, Total	8.1	U	8.1	0.043	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
N-Propylbenzene	4.1	U	4.1	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,3,5-Trimethylbenzene	4.1	U	4.1	0.18	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
tert-Butylbenzene	4.1	U	4.1	0.20	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,2,4-Trimethylbenzene	4.1	U	4.1	0.098	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
sec-Butylbenzene	4.1	U	4.1	0.089	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,4-Dichlorobenzene	4.1	U	4.1	0.31	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
1,2-Dichlorobenzene	4.1	U	4.1	0.11	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1
n-Butylbenzene	4.1	U	4.1	0.21	ug/Kg	☼	10/27/14 10:45	11/04/14 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*35 - 145*	*10/27/14 10:45*	*11/04/14 16:57*	*1*
Toluene-d8 (Surr)	*101*		*40 - 175*	*10/27/14 10:45*	*11/04/14 16:57*	*1*
4-Bromofluorobenzene	*108*		*30 - 200*	*10/27/14 10:45*	*11/04/14 16:57*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 150*	*10/27/14 10:45*	*11/04/14 16:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	350	U	350	16	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Acenaphthene	350	U	350	14	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Acenaphthylene	350	U	350	16	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Anthracene	350	U	350	15	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Benzo[a]anthracene	350	U	350	14	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Benzo[a]pyrene	350	U	350	13	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Benzo[b]fluoranthene	350	U	350	24	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Benzo[g,h,i]perylene	350	U	350	14	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Benzo[k]fluoranthene	350	U	350	31	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Chrysene	350	U	350	19	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Phenol	350	U	350	42	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Dibenz(a,h)anthracene	350	U	350	12	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Fluoranthene	350	U	350	13	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Fluorene	350	U	350	16	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Indeno[1,2,3-cd]pyrene	350	U	350	15	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Naphthalene	350	U	350	16	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
2-Methylphenol	350	U	350	42	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Phenanthrene	350	U	350	13	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Pyrene	350	U	350	15	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
3 & 4 Methylphenol	700	U	700	78	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
2-Chloronaphthalene	350	U	350	45	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Dibenzofuran	350	U	350	17	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Hexachlorobenzene	350	U	350	48	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1
Pentachlorophenol	870	U	870	71	ug/Kg	☼	11/05/14 10:58	11/14/14 16:24	1

Client Sample ID: RXR16B-8.80--9.2024102014
Date Collected: 10/24/14 14:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-8
Matrix: Solid
Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		35 - 110	11/05/14 10:58	11/14/14 16:24	1
Terphenyl-d14 (Surr)	87		30 - 130	11/05/14 10:58	11/14/14 16:24	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.8	U	1.8	0.22	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
gamma-BHC (Lindane)	1.8	U	1.8	0.33	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
beta-BHC	1.8	U	1.8	0.29	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
delta-BHC	1.8	U	1.8	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Heptachlor	1.8	U	1.8	0.35	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Aldrin	1.8	U	1.8	0.21	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
gamma-Chlordane	1.8	U	1.8	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
alpha-Chlordane	1.8	U	1.8	0.25	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
4,4'-DDE	1.8	U	1.8	0.25	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Endosulfan I	1.8	U	1.8	0.37	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Dieldrin	1.8	U	1.8	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Endrin	1.8	U	1.8	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
4,4'-DDD	1.8	U	1.8	0.25	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Endosulfan II	1.8	U	1.8	0.40	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
4,4'-DDT	1.8	U	1.8	0.50	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Endosulfan sulfate	1.8	U	1.8	0.45	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Chlordane (technical)	18	U	18	0.69	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1
Mirex	3.5	U	3.5	3.5	ug/Kg	☼	11/06/14 17:25	11/29/14 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		50 - 120	11/06/14 17:25	11/29/14 12:12	1
Tetrachloro-m-xylene	104		50 - 120	11/06/14 17:25	11/29/14 12:12	1
DCB Decachlorobiphenyl	90		45 - 115	11/06/14 17:25	11/29/14 12:12	1
DCB Decachlorobiphenyl	105		45 - 115	11/06/14 17:25	11/29/14 12:12	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	18	U	18	3.4	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1221	18	U	18	2.1	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1232	18	U	18	6.3	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1242	18	U	18	2.2	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1248	18	U	18	1.5	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1254	18	U	18	1.1	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1
PCB-1260	18	U	18	3.4	ug/Kg	☼	11/06/14 17:25	11/19/14 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		30 - 130	11/06/14 17:25	11/19/14 21:15	1
Tetrachloro-m-xylene	111		30 - 130	11/06/14 17:25	11/19/14 21:15	1
DCB Decachlorobiphenyl	89		45 - 125	11/06/14 17:25	11/19/14 21:15	1
DCB Decachlorobiphenyl	78		45 - 125	11/06/14 17:25	11/19/14 21:15	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	18	U	18	2.0	ug/Kg	☼	11/03/14 17:50	11/06/14 22:21	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR16B-8.80--9.2024102014
Date Collected: 10/24/14 14:05
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-8
Matrix: Solid
Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	172	X	69 - 150	11/03/14 17:50	11/06/14 22:21	1
2,4-Dichlorophenylacetic acid	122		69 - 150	11/03/14 17:50	11/06/14 22:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.95	0.29	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Barium	6.9		4.8	0.36	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Beryllium	0.18	J	0.48	0.011	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Cadmium	0.48	U	0.48	0.054	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Chromium	6.9		0.95	0.076	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Copper	3.5		2.4	0.48	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Lead	3.1	B	0.95	0.20	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Manganese	59.2		0.95	0.11	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Nickel	3.6		0.95	0.10	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Selenium	2.4	U	2.4	0.61	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Silver	0.48	U	0.48	0.078	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1
Zinc	13.9		1.9	1.5	mg/Kg	☼	11/03/14 10:30	11/04/14 16:30	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048	B	0.042	0.0090	mg/Kg	☼	11/19/14 14:00	11/20/14 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.2	U	2.2	0.55	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	6.9		2.0	2.0	mg/Kg			11/20/14 15:07	1
Cyanide, Total	0.54	U	0.54	0.086	mg/Kg	☼	11/07/14 15:30	11/07/14 19:20	1
Total Organic Carbon	4610	B	1000	120	mg/Kg			10/31/14 07:51	1
Percent Solids	93.1		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	1.7				%			10/29/14 13:53	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Sand	59.6				%			10/29/14 13:53	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Coarse Sand	6.3				%			10/29/14 13:53	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Medium Sand	25.2				%			10/29/14 13:53	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Fine Sand	28.1				%			10/29/14 13:53	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Fines	38.7				%			10/29/14 13:53	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			10/29/14 13:53	1
Sieve Size #4 - Percent Finer	98.3				% Passing			10/29/14 13:53	1
Sieve Size #10 - Percent Finer	92.0				% Passing			10/29/14 13:53	1
Sieve Size #20 - Percent Finer	83.1				% Passing			10/29/14 13:53	1
Sieve Size #40 - Percent Finer	66.8				% Passing			10/29/14 13:53	1
Sieve Size #60 - Percent Finer	51.4				% Passing			10/29/14 13:53	1

Client Sample ID: RXR16B-8.80--9.2024102014

Lab Sample ID: 200-25015-8

Date Collected: 10/24/14 14:05

Matrix: Solid

Date Received: 10/25/14 10:00

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sieve Size #80 - Percent Finer	**46.6**				% Passing			10/29/14 13:53	1
Sieve Size #100 - Percent Finer	**44.3**				% Passing			10/29/14 13:53	1
Sieve Size #200 - Percent Finer	**38.7**				% Passing			10/29/14 13:53	1

Client Sample ID: RXR16C-9.20--9.7024102014

Lab Sample ID: 200-25015-9

Date Collected: 10/24/14 14:10

Matrix: Solid

Date Received: 10/25/14 10:00

Percent Solids: 76.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.5	U	6.5	0.86	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,1-Dichloroethene	6.5	U	6.5	0.37	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Acetone	**16**		6.5	5.4	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Methylene Chloride	**2.3**	**J B**	6.5	0.73	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
trans-1,2-Dichloroethene	6.5	U	6.5	0.11	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Methyl tert-butyl ether	**1.2**	**J**	6.5	0.45	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,3-Dichlorobenzene	**0.21**	**J B**	6.5	0.14	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,1-Dichloroethane	6.5	U	6.5	0.59	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
cis-1,2-Dichloroethene	**2.0**	**J**	6.5	0.56	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
2-Butanone (MEK)	6.5	U	6.5	2.9	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Chloroform	6.5	U	6.5	0.58	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,1,1-Trichloroethane	6.5	U	6.5	0.41	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Carbon tetrachloride	6.5	U	6.5	0.071	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Benzene	6.5	U	6.5	0.56	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,2-Dichloroethane	6.5	U	6.5	1.1	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Trichloroethene	6.5	U	6.5	0.75	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,4-Dioxane	130	U	130	18	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Toluene	**0.45**	**J**	6.5	0.25	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Tetrachloroethene	6.5	U	6.5	0.38	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Chlorobenzene	6.5	U	6.5	0.14	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Ethylbenzene	6.5	U	6.5	0.089	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
m-Xylene & p-Xylene	6.5	U	6.5	0.50	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
o-Xylene	6.5	U	6.5	0.069	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
Xylenes, Total	13	U	13	0.069	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
N-Propylbenzene	6.5	U	6.5	0.41	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,3,5-Trimethylbenzene	6.5	U	6.5	0.29	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
tert-Butylbenzene	6.5	U	6.5	0.33	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,2,4-Trimethylbenzene	6.5	U	6.5	0.16	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
sec-Butylbenzene	6.5	U	6.5	0.14	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,4-Dichlorobenzene	6.5	U	6.5	0.50	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
1,2-Dichlorobenzene	**0.33**	**J B**	6.5	0.17	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1
n-Butylbenzene	6.5	U	6.5	0.34	ug/Kg	☼	10/27/14 10:45	11/04/14 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*10/27/14 10:45*	*11/04/14 14:44*	*1*
Toluene-d8 (Surr)	*111*		*40 - 175*	*10/27/14 10:45*	*11/04/14 14:44*	*1*
4-Bromofluorobenzene	*109*		*30 - 200*	*10/27/14 10:45*	*11/04/14 14:44*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*10/27/14 10:45*	*11/04/14 14:44*	*1*

Client Sample ID: RXR16C-9.20--9.7024102014
Date Collected: 10/24/14 14:10
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-9
Matrix: Solid
Percent Solids: 76.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	420	U	420	19	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Acenaphthene	420	U	420	17	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Acenaphthylene	420	U	420	19	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Anthracene	420	U	420	18	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Benzo[a]anthracene	420	U	420	17	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Benzo[a]pyrene	420	U	420	15	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Benzo[b]fluoranthene	420	U	420	29	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Benzo[g,h,i]perylene	420	U	420	17	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Benzo[k]fluoranthene	420	U	420	38	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Chrysene	420	U	420	23	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Phenol	420	U	420	51	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Dibenz(a,h)anthracene	420	U	420	14	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Fluoranthene	420	U	420	15	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Fluorene	420	U	420	19	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Indeno[1,2,3-cd]pyrene	420	U	420	18	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Naphthalene	420	U	420	19	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
2-Methylphenol	420	U	420	51	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Phenanthrene	420	U	420	15	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Pyrene	420	U	420	18	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
3 & 4 Methylphenol	850	U	850	94	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
2-Chloronaphthalene	420	U	420	55	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Dibenzofuran	420	U	420	20	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Hexachlorobenzene	420	U	420	59	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1
Pentachlorophenol	1100	U	1100	87	ug/Kg	☼	11/05/14 10:58	11/14/14 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*35 - 110*	*11/05/14 10:58*	*11/14/14 17:01*	*1*
Terphenyl-d14 (Surr)	*90*		*30 - 130*	*11/05/14 10:58*	*11/14/14 17:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.2	U	2.2	0.27	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
gamma-BHC (Lindane)	2.2	U	2.2	0.39	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
beta-BHC	2.2	U	2.2	0.34	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
delta-BHC	2.2	U	2.2	0.44	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Heptachlor	2.2	U	2.2	0.42	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Aldrin	2.2	U	2.2	0.25	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
gamma-Chlordane	2.2	U	2.2	0.44	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
alpha-Chlordane	2.2	U	2.2	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
4,4'-DDE	2.2	U	2.2	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Endosulfan I	2.2	U	2.2	0.44	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Dieldrin	2.2	U	2.2	0.47	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Endrin	2.2	U	2.2	0.48	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
4,4'-DDD	2.2	U	2.2	0.30	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Endosulfan II	2.2	U	2.2	0.48	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
4,4'-DDT	2.2	U	2.2	0.59	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Endosulfan sulfate	2.2	U	2.2	0.53	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Chlordane (technical)	22	U	22	0.82	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1
Mirex	4.2	U	4.2	4.2	ug/Kg	☼	11/06/14 17:25	11/29/14 12:36	1

Client Sample ID: RXR16C-9.20--9.7024102014
Date Collected: 10/24/14 14:10
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-9
Matrix: Solid
Percent Solids: 76.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*106*		*50 - 120*	*11/06/14 17:25*	*11/29/14 12:36*	*1*
Tetrachloro-m-xylene	*99*		*50 - 120*	*11/06/14 17:25*	*11/29/14 12:36*	*1*
DCB Decachlorobiphenyl	*83*		*45 - 115*	*11/06/14 17:25*	*11/29/14 12:36*	*1*
DCB Decachlorobiphenyl	*103*		*45 - 115*	*11/06/14 17:25*	*11/29/14 12:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22	U	22	4.0	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1221	22	U	22	2.5	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1232	22	U	22	7.5	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1242	22	U	22	2.7	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1248	22	U	22	1.8	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1254	22	U	22	1.3	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1
PCB-1260	22	U	22	4.0	ug/Kg	☼	11/06/14 17:25	11/20/14 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*92*		*30 - 130*	*11/06/14 17:25*	*11/20/14 19:50*	*1*
Tetrachloro-m-xylene	*104*		*30 - 130*	*11/06/14 17:25*	*11/20/14 19:50*	*1*
DCB Decachlorobiphenyl	*90*		*45 - 125*	*11/06/14 17:25*	*11/20/14 19:50*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 125*	*11/06/14 17:25*	*11/20/14 19:50*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	22	U	22	2.4	ug/Kg	☼	11/03/14 17:50	11/06/14 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*185*	*X*	*69 - 150*	*11/03/14 17:50*	*11/06/14 20:12*	*1*
2,4-Dichlorophenylacetic acid	*139*		*69 - 150*	*11/03/14 17:50*	*11/06/14 20:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.3**		1.1	0.32	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Barium	**15.4**		5.3	0.41	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Beryllium	**0.45**	**J**	0.53	0.013	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Cadmium	0.53	U	0.53	0.061	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Chromium	**19.6**		1.1	0.086	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Copper	**11.8**		2.7	0.55	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Lead	**9.5**	**B**	1.1	0.22	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Manganese	**96.8**		1.1	0.13	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Nickel	**9.7**		1.1	0.12	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Selenium	2.7	U	2.7	0.68	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Silver	0.53	U	0.53	0.088	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1
Zinc	**37.2**		2.1	1.7	mg/Kg	☼	11/03/14 10:30	11/04/14 16:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**	**B**	0.050	0.011	mg/Kg	☼	11/19/14 14:00	11/20/14 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.6	U	2.6	0.65	mg/Kg	☼	11/11/14 07:30	11/11/14 13:44	1
Cr (III)	**19.6**		2.0	2.0	mg/Kg			11/20/14 15:07	1

Client Sample ID: RXR16C-9.20--9.7024102014
Lab Sample ID: 200-25015-9
Date Collected: 10/24/14 14:10
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 76.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.63	U	0.63	0.10	mg/Kg	☼	11/07/14 15:30	11/07/14 19:21	1
Total Organic Carbon	**39200**	**B**	1000	120	mg/Kg			10/31/14 08:13	1
Percent Solids	**76.6**		0.25	0.25	%			11/03/14 18:37	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	**0.0**				%			10/29/14 13:55	1
Sieve Size 3 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Sand	**42.2**				%			10/29/14 13:55	1
Sieve Size 2 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Coarse Sand	**0.7**				%			10/29/14 13:55	1
Sieve Size 1.5 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Medium Sand	**14.2**				%			10/29/14 13:55	1
Sieve Size 1 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Fine Sand	**27.3**				%			10/29/14 13:55	1
Sieve Size 0.75 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Fines	**57.8**				%			10/29/14 13:55	1
Sieve Size 0.375 inch - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Sieve Size #4 - Percent Finer	**100.0**				% Passing			10/29/14 13:55	1
Sieve Size #10 - Percent Finer	**99.3**				% Passing			10/29/14 13:55	1
Sieve Size #20 - Percent Finer	**95.3**				% Passing			10/29/14 13:55	1
Sieve Size #40 - Percent Finer	**85.1**				% Passing			10/29/14 13:55	1
Sieve Size #60 - Percent Finer	**73.4**				% Passing			10/29/14 13:55	1
Sieve Size #80 - Percent Finer	**69.1**				% Passing			10/29/14 13:55	1
Sieve Size #100 - Percent Finer	**66.5**				% Passing			10/29/14 13:55	1
Sieve Size #200 - Percent Finer	**57.8**				% Passing			10/29/14 13:55	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 200-25015-10
Date Collected: 10/24/14 00:00
Matrix: Water
Date Received: 10/25/14 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			11/05/14 18:23	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/05/14 18:23	1
Acetone	5.0	U	5.0	1.7	ug/L			11/05/14 18:23	1
Methylene Chloride	1.0	U	1.0	0.23	ug/L			11/05/14 18:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			11/05/14 18:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			11/05/14 18:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/05/14 18:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/05/14 18:23	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			11/05/14 18:23	1
Chloroform	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			11/05/14 18:23	1
Benzene	1.0	U	1.0	0.19	ug/L			11/05/14 18:23	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			11/05/14 18:23	1

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: TRIP BLANK
Date Collected: 10/24/14 00:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.18	ug/L			11/05/14 18:23	1
1,4-Dioxane	40	U	40	6.2	ug/L			11/05/14 18:23	1
Toluene	1.0	U	1.0	0.22	ug/L			11/05/14 18:23	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			11/05/14 18:23	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			11/05/14 18:23	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			11/05/14 18:23	1
o-Xylene	1.0	U	1.0	0.23	ug/L			11/05/14 18:23	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			11/05/14 18:23	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			11/05/14 18:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			11/05/14 18:23	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			11/05/14 18:23	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			11/05/14 18:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			11/05/14 18:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			11/05/14 18:23	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*11/05/14 18:23*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/05/14 18:23*	*1*
4-Bromofluorobenzene	*97*		*80 - 125*		*11/05/14 18:23*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 150*		*11/05/14 18:23*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(35-145)	(40-175)	(30-200)	(50-150)
200-25015-1	RXR14A6.59--8.8024102014	90	95	102	96
200-25015-2	RXR14B-8.80--9.2024102014	90	94	94	95
200-25015-3	RXR14C-9.20--9.7024102014	71	82	89 *	76
200-25015-3 - RE	RXR14C-9.20--9.7024102014	61	89 *	89 *	72
200-25015-4	RXR15A9.33--8.8024102014	91	96	99	96
200-25015-5	RXR15B-8.80--9.2024102014	79	91	96 *	84
200-25015-5 - RE	RXR15B-8.80--9.2024102014	97	120	152 *	103
200-25015-6	RXR15C-9.20--9.7024102014	86	108	117 *	95
200-25015-6 - RE	RXR15C-9.20--9.7024102014	92	126	137 *	103
200-25015-7	RXR16A9.08--8.8024102014	79	116	116 *	91
200-25015-7 - RE	RXR16A9.08--8.8024102014	89 *	105 *	122 *	104 *
200-25015-8	RXR16B-8.80--9.2024102014	92	101	108	98
200-25015-9	RXR16C-9.20--9.7024102014	94	111	109	103
LCS 200-79804/3	Lab Control Sample	99	96	96	98
LCS 200-79852/3	Lab Control Sample	98	98	99	98
MB 200-79804/5	Method Blank	90	93	98	97
MB 200-79852/5	Method Blank	90	95	98	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
200-25015-10	TRIP BLANK	93	91	97	93
LCS 200-80002/3	Lab Control Sample	92	95	94	94
MB 200-80002/5	Method Blank	95	94	100	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPH
Lab Sample ID	Client Sample ID	(35-110)	(30-130)
200-25015-1	RXR14A6.59--8.8024102014	83	77
200-25015-2	RXR14B-8.80--9.2024102014	82	86
200-25015-3	RXR14C-9.20--9.7024102014	82	84
200-25015-4	RXR15A9.33--8.8024102014	80	80

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		FBP	TPH								
Lab Sample ID	Client Sample ID	(35-110)	(30-130)								
200-25015-5	RXR15B-8.80--9.2024102014	84	95								
200-25015-6	RXR15C-9.20--9.7024102014	75	82								
200-25015-7	RXR16A9.08--8.8024102014	82	89								
200-25015-8	RXR16B-8.80--9.2024102014	81	87								
200-25015-9	RXR16C-9.20--9.7024102014	76	90								
LCS 200-79963/2-A	Lab Control Sample	90	101								
MB 200-79963/1-A	Method Blank	78	85								

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(45-115)	(45-115)						
200-25015-1	RXR14A6.59--8.8024102014	99	93	86	103						
200-25015-2	RXR14B-8.80--9.2024102014	101	96	89	104						
200-25015-3	RXR14C-9.20--9.7024102014	103	99	88	107						
200-25015-4	RXR15A9.33--8.8024102014	109	104	85	105						
200-25015-5	RXR15B-8.80--9.2024102014	101	87	81	89						
200-25015-6	RXR15C-9.20--9.7024102014	102	94	86	92						
200-25015-7	RXR16A9.08--8.8024102014	101	93	87	96						
200-25015-8	RXR16B-8.80--9.2024102014	110	104	90	105						
200-25015-9	RXR16C-9.20--9.7024102014	106	99	83	103						
LCS 200-80082/2-A	Lab Control Sample	94	89	96	96						
MB 200-80082/1-A	Method Blank	93	92	88	97						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)						
200-25015-1	RXR14A6.59--8.8024102014	99	107	93	88						
200-25015-2	RXR14B-8.80--9.2024102014	98	108	98	91						
200-25015-3	RXR14C-9.20--9.7024102014	104	111	96	94						
200-25015-4	RXR15A9.33--8.8024102014	89	107	101	104						
200-25015-5	RXR15B-8.80--9.2024102014	80	84	79	59						
200-25015-6	RXR15C-9.20--9.7024102014	92	91	73	58						
200-25015-7	RXR16A9.08--8.8024102014	88	97	84	70						
200-25015-8	RXR16B-8.80--9.2024102014	104	111	89	78						
200-25015-9	RXR16C-9.20--9.7024102014	92	104	90	87						
LCS 200-80082/16-A	Lab Control Sample	96	113	91	84						

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-130)	TCX2 (30-130)	DCB1 (45-125)	DCB2 (45-125)
MB 200-80082/1-A	Method Blank	92	102	89	92

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (69-150)	DCPA2 (69-150)
200-25015-1	RXR14A6.59--8.8024102014	186 X	137
200-25015-2	RXR14B-8.80--9.2024102014	173 X	128
200-25015-3	RXR14C-9.20--9.7024102014	174 X	129
200-25015-4	RXR15A9.33--8.8024102014	131	138
200-25015-5	RXR15B-8.80--9.2024102014	178 X	139
200-25015-6	RXR15C-9.20--9.7024102014	184 X	133
200-25015-7	RXR16A9.08--8.8024102014	178 X	126
200-25015-8	RXR16B-8.80--9.2024102014	172 X	122
200-25015-9	RXR16C-9.20--9.7024102014	185 X	139
200-25015-9 MS	RXR16C-9.20--9.7024102014	175 X	136
200-25015-9 MSD	RXR16C-9.20--9.7024102014	178 X	141
LCS 460-260107/2-A	Lab Control Sample	175 X	140
MB 460-260107/1-A	Method Blank	182 X	127

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 200-79804/5
Matrix: Solid
Analysis Batch: 79804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			11/03/14 13:43	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			11/03/14 13:43	1
Acetone	5.0	U	5.0	4.1	ug/Kg			11/03/14 13:43	1
Methylene Chloride	1.50	J	5.0	0.56	ug/Kg			11/03/14 13:43	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			11/03/14 13:43	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			11/03/14 13:43	1
1,3-Dichlorobenzene	0.136	J	5.0	0.11	ug/Kg			11/03/14 13:43	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			11/03/14 13:43	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			11/03/14 13:43	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			11/03/14 13:43	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			11/03/14 13:43	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			11/03/14 13:43	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			11/03/14 13:43	1
Benzene	5.0	U	5.0	0.43	ug/Kg			11/03/14 13:43	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			11/03/14 13:43	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			11/03/14 13:43	1
1,4-Dioxane	100	U	100	14	ug/Kg			11/03/14 13:43	1
Toluene	0.261	J	5.0	0.19	ug/Kg			11/03/14 13:43	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			11/03/14 13:43	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			11/03/14 13:43	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			11/03/14 13:43	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			11/03/14 13:43	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			11/03/14 13:43	1
Xylenes, Total	10	U	10	0.053	ug/Kg			11/03/14 13:43	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			11/03/14 13:43	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			11/03/14 13:43	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			11/03/14 13:43	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			11/03/14 13:43	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			11/03/14 13:43	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			11/03/14 13:43	1
1,2-Dichlorobenzene	0.173	J	5.0	0.13	ug/Kg			11/03/14 13:43	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			11/03/14 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*35 - 145*		*11/03/14 13:43*	*1*
Toluene-d8 (Surr)	*93*		*40 - 175*		*11/03/14 13:43*	*1*
4-Bromofluorobenzene	*98*		*30 - 200*		*11/03/14 13:43*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 150*		*11/03/14 13:43*	*1*

Lab Sample ID: LCS 200-79804/3
Matrix: Solid
Analysis Batch: 79804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	49.6		ug/Kg		99	75 - 120
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	80 - 120
Acetone	250	247		ug/Kg		99	70 - 120
Methylene Chloride	50.0	44.6		ug/Kg		89	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-79804/3
Matrix: Solid
Analysis Batch: 79804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	75 - 125
Methyl tert-butyl ether	50.0	48.0		ug/Kg		96	70 - 120
1,3-Dichlorobenzene	50.0	47.3		ug/Kg		95	80 - 125
1,1-Dichloroethane	50.0	47.2		ug/Kg		95	70 - 120
cis-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	75 - 120
2-Butanone (MEK)	250	231		ug/Kg		92	60 - 130
Chloroform	50.0	46.7		ug/Kg		93	80 - 120
1,1,1-Trichloroethane	50.0	46.4		ug/Kg		93	70 - 120
Carbon tetrachloride	50.0	45.6		ug/Kg		91	70 - 120
Benzene	50.0	47.4		ug/Kg		95	75 - 125
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 120
Trichloroethene	50.0	48.3		ug/Kg		97	75 - 120
1,4-Dioxane	1000	1070		ug/Kg		107	75 - 120
Toluene	50.0	46.4		ug/Kg		93	80 - 125
Tetrachloroethene	50.0	47.9		ug/Kg		96	80 - 125
Chlorobenzene	50.0	47.2		ug/Kg		94	80 - 125
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 125
m-Xylene & p-Xylene	50.0	45.5		ug/Kg		91	80 - 125
o-Xylene	50.0	47.4		ug/Kg		95	80 - 125
N-Propylbenzene	50.0	46.7		ug/Kg		93	80 - 125
1,3,5-Trimethylbenzene	50.0	46.0		ug/Kg		92	80 - 125
tert-Butylbenzene	50.0	45.6		ug/Kg		91	75 - 120
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		93	80 - 125
sec-Butylbenzene	50.0	46.7		ug/Kg		93	80 - 125
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	80 - 120
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 125
n-Butylbenzene	50.0	48.6		ug/Kg		97	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*
Toluene-d8 (Surr)	*96*		*40 - 175*
4-Bromofluorobenzene	*96*		*30 - 200*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Lab Sample ID: MB 200-79852/5
Matrix: Solid
Analysis Batch: 79852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			11/04/14 11:08	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			11/04/14 11:08	1
Acetone	5.0	U	5.0	4.1	ug/Kg			11/04/14 11:08	1
Methylene Chloride	1.38	J	5.0	0.56	ug/Kg			11/04/14 11:08	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			11/04/14 11:08	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			11/04/14 11:08	1
1,3-Dichlorobenzene	0.124	J	5.0	0.11	ug/Kg			11/04/14 11:08	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			11/04/14 11:08	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			11/04/14 11:08	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-79852/5
Matrix: Solid
Analysis Batch: 79852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			11/04/14 11:08	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			11/04/14 11:08	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			11/04/14 11:08	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			11/04/14 11:08	1
Benzene	5.0	U	5.0	0.43	ug/Kg			11/04/14 11:08	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			11/04/14 11:08	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			11/04/14 11:08	1
1,4-Dioxane	100	U	100	14	ug/Kg			11/04/14 11:08	1
Toluene	5.0	U	5.0	0.19	ug/Kg			11/04/14 11:08	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			11/04/14 11:08	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			11/04/14 11:08	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			11/04/14 11:08	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			11/04/14 11:08	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			11/04/14 11:08	1
Xylenes, Total	10	U	10	0.053	ug/Kg			11/04/14 11:08	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			11/04/14 11:08	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			11/04/14 11:08	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			11/04/14 11:08	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			11/04/14 11:08	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			11/04/14 11:08	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			11/04/14 11:08	1
1,2-Dichlorobenzene	0.142	J	5.0	0.13	ug/Kg			11/04/14 11:08	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			11/04/14 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*35 - 145*		*11/04/14 11:08*	*1*
Toluene-d8 (Surr)	*95*		*40 - 175*		*11/04/14 11:08*	*1*
4-Bromofluorobenzene	*98*		*30 - 200*		*11/04/14 11:08*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*		*11/04/14 11:08*	*1*

Lab Sample ID: LCS 200-79852/3
Matrix: Solid
Analysis Batch: 79852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	48.1		ug/Kg		96	75 - 120
1,1-Dichloroethene	50.0	45.3		ug/Kg		91	80 - 120
Acetone	250	247		ug/Kg		99	70 - 120
Methylene Chloride	50.0	44.0		ug/Kg		88	75 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	75 - 125
Methyl tert-butyl ether	50.0	47.9		ug/Kg		96	70 - 120
1,3-Dichlorobenzene	50.0	48.4		ug/Kg		97	80 - 125
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 120
cis-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	75 - 120
2-Butanone (MEK)	250	252		ug/Kg		101	60 - 130
Chloroform	50.0	46.9		ug/Kg		94	80 - 120
1,1,1-Trichloroethane	50.0	46.4		ug/Kg		93	70 - 120
Carbon tetrachloride	50.0	50.3		ug/Kg		101	70 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-79852/3
Matrix: Solid
Analysis Batch: 79852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.8		ug/Kg		96	75 - 125
1,2-Dichloroethane	50.0	46.8		ug/Kg		94	70 - 120
Trichloroethene	50.0	49.0		ug/Kg		98	75 - 120
1,4-Dioxane	1000	862		ug/Kg		86	75 - 120
Toluene	50.0	47.5		ug/Kg		95	80 - 125
Tetrachloroethene	50.0	47.7		ug/Kg		95	80 - 125
Chlorobenzene	50.0	48.6		ug/Kg		97	80 - 125
Ethylbenzene	50.0	48.2		ug/Kg		96	80 - 125
m-Xylene & p-Xylene	50.0	48.0		ug/Kg		96	80 - 125
o-Xylene	50.0	48.0		ug/Kg		96	80 - 125
N-Propylbenzene	50.0	46.8		ug/Kg		94	80 - 125
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	80 - 125
tert-Butylbenzene	50.0	46.4		ug/Kg		93	75 - 120
1,2,4-Trimethylbenzene	50.0	47.1		ug/Kg		94	80 - 125
sec-Butylbenzene	50.0	47.6		ug/Kg		95	80 - 125
1,4-Dichlorobenzene	50.0	47.5		ug/Kg		95	80 - 120
1,2-Dichlorobenzene	50.0	47.2		ug/Kg		94	80 - 125
n-Butylbenzene	50.0	49.7		ug/Kg		99	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*35 - 145*
Toluene-d8 (Surr)	*98*		*40 - 175*
4-Bromofluorobenzene	*99*		*30 - 200*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Lab Sample ID: MB 200-80002/5
Matrix: Water
Analysis Batch: 80002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			11/05/14 17:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/05/14 17:51	1
Acetone	5.0	U	5.0	1.7	ug/L			11/05/14 17:51	1
Methylene Chloride	1.0	U	1.0	0.23	ug/L			11/05/14 17:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			11/05/14 17:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			11/05/14 17:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/05/14 17:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/05/14 17:51	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			11/05/14 17:51	1
Chloroform	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			11/05/14 17:51	1
Benzene	1.0	U	1.0	0.19	ug/L			11/05/14 17:51	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			11/05/14 17:51	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			11/05/14 17:51	1
1,4-Dioxane	40	U	40	6.2	ug/L			11/05/14 17:51	1
Toluene	1.0	U	1.0	0.22	ug/L			11/05/14 17:51	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-80002/5
Matrix: Water
Analysis Batch: 80002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			11/05/14 17:51	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			11/05/14 17:51	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			11/05/14 17:51	1
o-Xylene	1.0	U	1.0	0.23	ug/L			11/05/14 17:51	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			11/05/14 17:51	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			11/05/14 17:51	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			11/05/14 17:51	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			11/05/14 17:51	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			11/05/14 17:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			11/05/14 17:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			11/05/14 17:51	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			11/05/14 17:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*11/05/14 17:51*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/05/14 17:51*	*1*
4-Bromofluorobenzene	*100*		*80 - 125*		*11/05/14 17:51*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*		*11/05/14 17:51*	*1*

Lab Sample ID: LCS 200-80002/3
Matrix: Water
Analysis Batch: 80002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	25.0	28.0		ug/L		112	80 - 130
1,1-Dichloroethene	25.0	22.3		ug/L		89	80 - 120
Acetone	125	98.3		ug/L		79	15 - 200
Methylene Chloride	25.0	24.8		ug/L		99	80 - 120
trans-1,2-Dichloroethene	25.0	23.6		ug/L		95	80 - 125
Methyl tert-butyl ether	25.0	24.1		ug/L		97	80 - 120
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 125
1,1-Dichloroethane	25.0	23.7		ug/L		95	80 - 120
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	80 - 125
2-Butanone (MEK)	125	109		ug/L		87	60 - 170
Chloroform	25.0	23.2		ug/L		93	75 - 120
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	75 - 120
Carbon tetrachloride	25.0	23.8		ug/L		95	75 - 120
Benzene	25.0	23.3		ug/L		93	80 - 125
1,2-Dichloroethane	25.0	23.3		ug/L		93	70 - 120
Trichloroethene	25.0	23.2		ug/L		93	75 - 120
1,4-Dioxane	500	443		ug/L		89	75 - 140
Toluene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	23.3		ug/L		93	80 - 120
Chlorobenzene	25.0	23.2		ug/L		93	80 - 120
Ethylbenzene	25.0	23.2		ug/L		93	80 - 125
m-Xylene & p-Xylene	25.0	23.2		ug/L		93	80 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-80002/3
Matrix: Water
Analysis Batch: 80002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	25.0	23.5		ug/L		94	80 - 120
N-Propylbenzene	25.0	23.3		ug/L		93	80 - 120
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		93	80 - 120
tert-Butylbenzene	25.0	23.0		ug/L		92	75 - 120
1,2,4-Trimethylbenzene	25.0	22.7		ug/L		91	80 - 120
sec-Butylbenzene	25.0	23.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 125
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 125
n-Butylbenzene	25.0	23.1		ug/L		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene	*94*		*80 - 125*
Dibromofluoromethane (Surr)	*94*		*50 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 200-79963/1-A
Matrix: Solid
Analysis Batch: 80273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	330	U	330	15	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Acenaphthene	330	U	330	13	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Acenaphthylene	330	U	330	15	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Anthracene	330	U	330	14	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Benzo[a]anthracene	330	U	330	13	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Benzo[a]pyrene	330	U	330	12	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Benzo[b]fluoranthene	330	U	330	23	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Benzo[g,h,i]perylene	330	U	330	13	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Benzo[k]fluoranthene	330	U	330	30	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Chrysene	330	U	330	18	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Phenol	330	U	330	40	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Dibenz(a,h)anthracene	330	U	330	11	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Fluoranthene	330	U	330	12	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Fluorene	330	U	330	15	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Indeno[1,2,3-cd]pyrene	330	U	330	14	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Naphthalene	330	U	330	15	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
2-Methylphenol	330	U	330	40	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Phenanthrene	330	U	330	12	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Pyrene	330	U	330	14	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
3 & 4 Methylphenol	670	U	670	74	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
2-Chloronaphthalene	330	U	330	43	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Dibenzofuran	330	U	330	16	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Hexachlorobenzene	330	U	330	46	ug/Kg		11/05/14 10:58	11/11/14 14:32	1
Pentachlorophenol	830	U	830	68	ug/Kg		11/05/14 10:58	11/11/14 14:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-79963/1-A
Matrix: Solid
Analysis Batch: 80273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79963

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		35 - 110	11/05/14 10:58	11/11/14 14:32	1
Terphenyl-d14 (Surr)	85		30 - 130	11/05/14 10:58	11/11/14 14:32	1

Lab Sample ID: LCS 200-79963/2-A
Matrix: Solid
Analysis Batch: 80273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 79963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	1670	1460		ug/Kg		87	60 - 120
Acenaphthene	1670	1520		ug/Kg		91	65 - 110
Acenaphthylene	1670	1540		ug/Kg		93	65 - 110
Anthracene	1670	1560		ug/Kg		94	70 - 110
Benzo[a]anthracene	1670	1460		ug/Kg		87	65 - 115
Benzo[a]pyrene	1670	1560		ug/Kg		94	60 - 120
Benzo[b]fluoranthene	1670	1570		ug/Kg		94	45 - 135
Benzo[g,h,i]perylene	1670	1250		ug/Kg		75	50 - 125
Benzo[k]fluoranthene	1670	1760		ug/Kg		106	60 - 130
Chrysene	1670	1430		ug/Kg		86	65 - 115
Phenol	1670	1430		ug/Kg		86	60 - 110
Dibenz(a,h)anthracene	1670	1250		ug/Kg		75	50 - 125
Fluoranthene	1670	1570		ug/Kg		94	60 - 115
Fluorene	1670	1650		ug/Kg		99	65 - 110
Indeno[1,2,3-cd]pyrene	1670	1200		ug/Kg		72	50 - 120
Naphthalene	1670	1480		ug/Kg		89	65 - 105
2-Methylphenol	1670	1540		ug/Kg		92	65 - 110
Phenanthrene	1670	1560		ug/Kg		93	65 - 110
Pyrene	1670	1480		ug/Kg		89	60 - 130
3 & 4 Methylphenol	1670	1560		ug/Kg		94	60 - 110
2-Chloronaphthalene	1670	1410		ug/Kg		85	60 - 115
Dibenzofuran	1670	1510		ug/Kg		90	60 - 110
Hexachlorobenzene	1670	1530		ug/Kg		92	60 - 110
Pentachlorophenol	3330	1940		ug/Kg		58	40 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	90		35 - 110
Terphenyl-d14 (Surr)	101		30 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 200-80082/1-A
Matrix: Solid
Analysis Batch: 81355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	1.7	U	1.7	0.21	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
gamma-BHC (Lindane)	1.7	U	1.7	0.31	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
beta-BHC	1.7	U	1.7	0.27	ug/Kg		11/06/14 17:25	11/29/14 06:26	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 200-80082/1-A
Matrix: Solid
Analysis Batch: 81355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	1.7	U	1.7	0.35	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Heptachlor	1.7	U	1.7	0.33	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Aldrin	1.7	U	1.7	0.20	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
gamma-Chlordane	1.7	U	1.7	0.35	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
alpha-Chlordane	1.7	U	1.7	0.24	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
4,4'-DDE	1.7	U	1.7	0.24	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Endosulfan I	1.7	U	1.7	0.35	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Dieldrin	1.7	U	1.7	0.37	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Endrin	1.7	U	1.7	0.38	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
4,4'-DDD	1.7	U	1.7	0.24	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Endosulfan II	1.7	U	1.7	0.38	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
4,4'-DDT	1.7	U	1.7	0.47	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Endosulfan sulfate	1.7	U	1.7	0.42	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Chlordane (technical)	17	U	17	0.65	ug/Kg		11/06/14 17:25	11/29/14 06:26	1
Mirex	3.3	U	3.3	3.3	ug/Kg		11/06/14 17:25	11/29/14 06:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*50 - 120*	*11/06/14 17:25*	*11/29/14 06:26*	*1*
Tetrachloro-m-xylene	*92*		*50 - 120*	*11/06/14 17:25*	*11/29/14 06:26*	*1*
DCB Decachlorobiphenyl	*88*		*45 - 115*	*11/06/14 17:25*	*11/29/14 06:26*	*1*
DCB Decachlorobiphenyl	*97*		*45 - 115*	*11/06/14 17:25*	*11/29/14 06:26*	*1*

Lab Sample ID: LCS 200-80082/2-A
Matrix: Solid
Analysis Batch: 81355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	6.67	5.80		ug/Kg		87	65 - 115
gamma-BHC (Lindane)	6.67	5.94		ug/Kg		89	65 - 115
beta-BHC	6.67	5.66		ug/Kg		85	70 - 115
delta-BHC	6.67	5.11		ug/Kg		77	65 - 115
Heptachlor	6.67	5.93		ug/Kg		89	65 - 115
Aldrin	6.67	5.74		ug/Kg		86	65 - 115
gamma-Chlordane	6.67	5.91		ug/Kg		89	70 - 110
alpha-Chlordane	6.67	5.24		ug/Kg		79	70 - 110
4,4'-DDE	6.67	6.46		ug/Kg		97	65 - 115
Endosulfan I	6.67	6.04		ug/Kg		91	50 - 115
Dieldrin	6.67	6.32		ug/Kg		95	65 - 115
Endrin	6.67	6.96		ug/Kg		104	65 - 115
4,4'-DDD	6.67	6.81		ug/Kg		102	65 - 115
Endosulfan II	6.67	6.48		ug/Kg		97	60 - 115
4,4'-DDT	6.67	7.11		ug/Kg		107	65 - 120
Endosulfan sulfate	6.67	6.68		ug/Kg		100	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*50 - 120*
Tetrachloro-m-xylene	*89*		*50 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 200-80082/2-A
Matrix: Solid
Analysis Batch: 81355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80082

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*45 - 115*
DCB Decachlorobiphenyl	*96*		*45 - 115*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-80082/1-A
Matrix: Solid
Analysis Batch: 80806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	3.2	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1221	17	U	17	2.0	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1232	17	U	17	5.9	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1242	17	U	17	2.1	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1248	17	U	17	1.4	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1254	17	U	17	1.0	ug/Kg		11/06/14 17:25	11/19/14 17:27	1
PCB-1260	17	U	17	3.2	ug/Kg		11/06/14 17:25	11/19/14 17:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 130*	*11/06/14 17:25*	*11/19/14 17:27*	*1*
Tetrachloro-m-xylene	*102*		*30 - 130*	*11/06/14 17:25*	*11/19/14 17:27*	*1*
DCB Decachlorobiphenyl	*89*		*45 - 125*	*11/06/14 17:25*	*11/19/14 17:27*	*1*
DCB Decachlorobiphenyl	*92*		*45 - 125*	*11/06/14 17:25*	*11/19/14 17:27*	*1*

Lab Sample ID: LCS 200-80082/16-A
Matrix: Solid
Analysis Batch: 80806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	166		ug/Kg		100	55 - 120
PCB-1260	167	152		ug/Kg		91	55 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*30 - 130*
Tetrachloro-m-xylene	*113*		*30 - 130*
DCB Decachlorobiphenyl	*91*		*45 - 125*
DCB Decachlorobiphenyl	*84*		*45 - 125*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-260107/1-A
Matrix: Solid
Analysis Batch: 260822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	1.9	ug/Kg		11/03/14 17:50	11/06/14 16:57	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 460-260107/1-A
Matrix: Solid
Analysis Batch: 260822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260107

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	182	X	69 - 150	11/03/14 17:50	11/06/14 16:57	1
2,4-Dichlorophenylacetic acid	127		69 - 150	11/03/14 17:50	11/06/14 16:57	1

Lab Sample ID: LCS 460-260107/2-A
Matrix: Solid
Analysis Batch: 260822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260107

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			333	444		ug/Kg		133	81 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	175	X	69 - 150
2,4-Dichlorophenylacetic acid	140		69 - 150

Lab Sample ID: 200-25015-9 MS
Matrix: Solid
Analysis Batch: 260822

Client Sample ID: RXR16C-9.20--9.7024102014
Prep Type: Total/NA
Prep Batch: 260107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)	22	U	435	595		ug/Kg	☼	137	81 - 150		

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	175	X	69 - 150
2,4-Dichlorophenylacetic acid	136		69 - 150

Lab Sample ID: 200-25015-9 MSD
Matrix: Solid
Analysis Batch: 260822

Client Sample ID: RXR16C-9.20--9.7024102014
Prep Type: Total/NA
Prep Batch: 260107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	22	U	435	586		ug/Kg	☼	135	81 - 150	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	178	X	69 - 150
2,4-Dichlorophenylacetic acid	141		69 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 200-79708/1-A
Matrix: Solid
Analysis Batch: 79964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.0	U	1.0	0.30	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Barium	5.0	U	5.0	0.38	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Beryllium	0.50	U	0.50	0.012	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Cadmium	0.50	U	0.50	0.057	mg/Kg		11/03/14 10:30	11/04/14 14:12	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 200-79708/1-A
Matrix: Solid
Analysis Batch: 79964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.0	U	1.0	0.080	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Copper	2.5	U	2.5	0.51	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Lead	0.260	J	1.0	0.21	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Manganese	1.0	U	1.0	0.12	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Nickel	1.0	U	1.0	0.11	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Selenium	2.5	U	2.5	0.64	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Silver	0.50	U	0.50	0.082	mg/Kg		11/03/14 10:30	11/04/14 14:12	1
Zinc	2.0	U	2.0	1.6	mg/Kg		11/03/14 10:30	11/04/14 14:12	1

Lab Sample ID: LCS 200-79708/2-A
Matrix: Solid
Analysis Batch: 79964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 79708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.00	4.83		mg/Kg		97	80 - 120
Barium	25.0	26.16		mg/Kg		105	80 - 120
Beryllium	2.50	2.59		mg/Kg		104	80 - 120
Cadmium	2.50	2.47		mg/Kg		99	80 - 120
Chromium	5.00	5.14		mg/Kg		103	80 - 120
Copper	12.5	11.74		mg/Kg		94	80 - 120
Lead	5.00	4.84		mg/Kg		97	80 - 120
Manganese	5.00	5.20		mg/Kg		104	80 - 120
Nickel	5.00	5.23		mg/Kg		105	80 - 120
Selenium	12.5	11.51		mg/Kg		92	80 - 120
Silver	2.50	2.51		mg/Kg		100	80 - 120
Zinc	10.0	10.46		mg/Kg		105	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 200-80723/22-A
Matrix: Solid
Analysis Batch: 80916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0150	J	0.040	0.0085	mg/Kg		11/19/14 14:00	11/20/14 16:43	1

Lab Sample ID: LCS 200-80723/23-A
Matrix: Solid
Analysis Batch: 80916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.200	0.206		mg/Kg		103	80 - 120

Lab Sample ID: 200-25015-1 MS
Matrix: Solid
Analysis Batch: 80916

Client Sample ID: RXR14A6.59--8.8024102014
Prep Type: Total/NA
Prep Batch: 80723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	B	0.534	0.666		mg/Kg	☼	113	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 200-25015-1 DU
Matrix: Solid
Analysis Batch: 80916

Client Sample ID: RXR14A6.59--8.8024102014
Prep Type: Total/NA
Prep Batch: 80723

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.060	B	0.0798	F5	mg/Kg	☼	28	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-261772/1-A
Matrix: Solid
Analysis Batch: 261773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.50	mg/Kg		11/11/14 07:30	11/11/14 12:17	1

Lab Sample ID: LCSI 460-261772/3-A
Matrix: Solid
Analysis Batch: 261773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261772

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	753	758.3		mg/Kg		101	80 - 120

Lab Sample ID: LCSSRM 460-261772/2-A
Matrix: Solid
Analysis Batch: 261773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261772

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	10.2	9.22		mg/Kg		90.1	88.7 - 110.2

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 200-80170/3-A
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.080	mg/Kg		11/07/14 15:30	11/07/14 19:05	1

Lab Sample ID: HLCS 200-80170/2-A
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80170

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.198		mg/Kg		99	90 - 110

Lab Sample ID: LCS 200-80170/4-A
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	6.00	6.15		mg/Kg		103	85 - 115

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LLCS 200-80170/1-A
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80170

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0516		mg/Kg		103	90 - 110

Lab Sample ID: 200-25015-6 MS
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: RXR15C-9.20--9.7024102014
Prep Type: Total/NA
Prep Batch: 80170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.63	U	6.03	6.30		mg/Kg	☼	104	85 - 115

Lab Sample ID: 200-25015-6 DU
Matrix: Solid
Analysis Batch: 80701

Client Sample ID: RXR15C-9.20--9.7024102014
Prep Type: Total/NA
Prep Batch: 80170

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.63	U	0.64	U	mg/Kg	☼	NC	20

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-79705/5
Matrix: Solid
Analysis Batch: 79705

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	330.0	J	1000	120	mg/Kg			10/31/14 06:37	1

Lab Sample ID: LCS 200-79705/6
Matrix: Solid
Analysis Batch: 79705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20100	21630		mg/Kg		108	75 - 125

Lab Sample ID: 200-25015-1 MS
Matrix: Solid
Analysis Batch: 79705

Client Sample ID: RXR14A6.59--8.8024102014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4010	B	31300	42120		mg/Kg		122	75 - 125

Lab Sample ID: 200-25015-1 DU
Matrix: Solid
Analysis Batch: 79705

Client Sample ID: RXR14A6.59--8.8024102014
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	4010	B	8940	F3	mg/Kg		76	20

GC/MS VOA

Analysis Batch: 79804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8260C	79815
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8260C	79815
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8260C	79815
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8260C	79815
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8260C	79815
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8260C	79815
LCS 200-79804/3	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-79804/5	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 79815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	5035	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	5035	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	5035	
200-25015-3 - RE	RXR14C-9.20--9.7024102014	Total/NA	Solid	5035	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	5035	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	5035	
200-25015-5 - RE	RXR15B-8.80--9.2024102014	Total/NA	Solid	5035	
200-25015-6 - RE	RXR15C-9.20--9.7024102014	Total/NA	Solid	5035	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	5035	
200-25015-7 - RE	RXR16A9.08--8.8024102014	Total/NA	Solid	5035	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	5035	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	5035	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	5035	

Analysis Batch: 79852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8260C	79815
200-25015-3 - RE	RXR14C-9.20--9.7024102014	Total/NA	Solid	8260C	79815
200-25015-5 - RE	RXR15B-8.80--9.2024102014	Total/NA	Solid	8260C	79815
200-25015-6 - RE	RXR15C-9.20--9.7024102014	Total/NA	Solid	8260C	79815
200-25015-7 - RE	RXR16A9.08--8.8024102014	Total/NA	Solid	8260C	79815
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8260C	79815
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8260C	79815
LCS 200-79852/3	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-79852/5	Method Blank	Total/NA	Solid	8260C	

Analysis Batch: 80002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-10	TRIP BLANK	Total/NA	Water	8260C	
LCS 200-80002/3	Lab Control Sample	Total/NA	Water	8260C	
MB 200-80002/5	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 79963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	3550C	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	3550C	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 79963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	3550C	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	3550C	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	3550C	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	3550C	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	3550C	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	3550C	
LCS 200-79963/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 200-79963/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 80273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8270D	79963
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8270D	79963
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8270D	79963
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8270D	79963
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8270D	79963
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8270D	79963
LCS 200-79963/2-A	Lab Control Sample	Total/NA	Solid	8270D	79963
MB 200-79963/1-A	Method Blank	Total/NA	Solid	8270D	79963

Analysis Batch: 80556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8270D	79963
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8270D	79963
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8270D	79963

GC Semi VOA

Prep Batch: 80082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	3541	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	3541	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	3541	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	3541	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	3541	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	3541	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	3541	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	3541	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	3541	
LCS 200-80082/16-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 200-80082/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 200-80082/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 80806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8082A	80082
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8082A	80082
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8082A	80082
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8082A	80082
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8082A	80082

GC Semi VOA (Continued)

Analysis Batch: 80806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-80082/16-A	Lab Control Sample	Total/NA	Solid	8082A	80082
MB 200-80082/1-A	Method Blank	Total/NA	Solid	8082A	80082

Analysis Batch: 80890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8082A	80082
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8082A	80082
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8082A	80082
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8082A	80082

Analysis Batch: 81355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8081B	80082
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8081B	80082
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8081B	80082
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8081B	80082
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8081B	80082
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8081B	80082
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8081B	80082
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8081B	80082
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8081B	80082
LCS 200-80082/2-A	Lab Control Sample	Total/NA	Solid	8081B	80082
MB 200-80082/1-A	Method Blank	Total/NA	Solid	8081B	80082

Prep Batch: 260107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8151A	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8151A	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8151A	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8151A	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8151A	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8151A	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8151A	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8151A	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	
200-25015-9 MS	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	
200-25015-9 MSD	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	
LCS 460-260107/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-260107/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 260822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	8151A	260107
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	8151A	260107
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	8151A	260107
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	8151A	260107
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	8151A	260107
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	260107
200-25015-9 MS	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	260107
200-25015-9 MSD	RXR16C-9.20--9.7024102014	Total/NA	Solid	8151A	260107
LCS 460-260107/2-A	Lab Control Sample	Total/NA	Solid	8151A	260107

GC Semi VOA (Continued)

Analysis Batch: 260822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-260107/1-A	Method Blank	Total/NA	Solid	8151A	260107

Analysis Batch: 260899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	8151A	260107
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	8151A	260107
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	8151A	260107

Metals

Prep Batch: 79708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	3050B	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	3050B	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	3050B	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	3050B	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	3050B	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	3050B	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	3050B	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	3050B	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	3050B	
LCS 200-79708/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 200-79708/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 79964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	6010C	79708
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	6010C	79708
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	6010C	79708
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	6010C	79708
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	6010C	79708
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	6010C	79708
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	6010C	79708
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	6010C	79708
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	6010C	79708
LCS 200-79708/2-A	Lab Control Sample	Total/NA	Solid	6010C	79708
MB 200-79708/1-A	Method Blank	Total/NA	Solid	6010C	79708

Prep Batch: 80723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	
200-25015-1 DU	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	
200-25015-1 MS	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	7471B	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	7471B	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	7471B	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	7471B	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	7471B	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	7471B	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 80723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	7471B	
LCS 200-80723/23-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 200-80723/22-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 80725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	6010C	79708

Analysis Batch: 80916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	80723
200-25015-1 DU	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	80723
200-25015-1 MS	RXR14A6.59--8.8024102014	Total/NA	Solid	7471B	80723
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	7471B	80723
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	7471B	80723
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	7471B	80723
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	7471B	80723
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	7471B	80723
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	7471B	80723
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	7471B	80723
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	7471B	80723
LCS 200-80723/23-A	Lab Control Sample	Total/NA	Solid	7471B	80723
MB 200-80723/22-A	Method Blank	Total/NA	Solid	7471B	80723

General Chemistry

Analysis Batch: 79705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-1 DU	RXR14A6.59--8.8024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-1 MS	RXR14A6.59--8.8024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	Lloyd Kahn	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	Lloyd Kahn	
LCS 200-79705/6	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
MB 200-79705/5	Method Blank	Total/NA	Solid	Lloyd Kahn	

Analysis Batch: 79841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	Moisture	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	Moisture	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	Moisture	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	Moisture	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	Moisture	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 79841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	Moisture	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	Moisture	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	Moisture	

Prep Batch: 80170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	9012B	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	9012B	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	9012B	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	9012B	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	9012B	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	
200-25015-6 DU	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	
200-25015-6 MS	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	9012B	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	9012B	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	9012B	
HLCS 200-80170/2-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 200-80170/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 200-80170/1-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 200-80170/3-A	Method Blank	Total/NA	Solid	9012B	

Analysis Batch: 80701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	9012B	80170
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	9012B	80170
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	9012B	80170
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	9012B	80170
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	9012B	80170
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	80170
200-25015-6 DU	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	80170
200-25015-6 MS	RXR15C-9.20--9.7024102014	Total/NA	Solid	9012B	80170
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	9012B	80170
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	9012B	80170
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	9012B	80170
HLCS 200-80170/2-A	Lab Control Sample	Total/NA	Solid	9012B	80170
LCS 200-80170/4-A	Lab Control Sample	Total/NA	Solid	9012B	80170
LLCS 200-80170/1-A	Lab Control Sample	Total/NA	Solid	9012B	80170
MB 200-80170/3-A	Method Blank	Total/NA	Solid	9012B	80170

Prep Batch: 261772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	3060A	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	3060A	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	3060A	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	3060A	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	3060A	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	3060A	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	3060A	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	3060A	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 261772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSI 460-261772/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-261772/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-261772/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 261773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	7196A	261772
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	7196A	261772
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	7196A	261772
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	7196A	261772
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	7196A	261772
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	7196A	261772
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	7196A	261772
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	7196A	261772
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	7196A	261772
LCSI 460-261772/3-A	Lab Control Sample	Total/NA	Solid	7196A	261772
LCSSRM 460-261772/2-A	Lab Control Sample	Total/NA	Solid	7196A	261772
MB 460-261772/1-A	Method Blank	Total/NA	Solid	7196A	261772

Analysis Batch: 264188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	7196A	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	7196A	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	7196A	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	7196A	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	7196A	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	7196A	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	7196A	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	7196A	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	7196A	

Geotechnical

Analysis Batch: 79587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-25015-1	RXR14A6.59--8.8024102014	Total/NA	Solid	D422	
200-25015-2	RXR14B-8.80--9.2024102014	Total/NA	Solid	D422	
200-25015-3	RXR14C-9.20--9.7024102014	Total/NA	Solid	D422	
200-25015-4	RXR15A9.33--8.8024102014	Total/NA	Solid	D422	
200-25015-5	RXR15B-8.80--9.2024102014	Total/NA	Solid	D422	
200-25015-6	RXR15C-9.20--9.7024102014	Total/NA	Solid	D422	
200-25015-7	RXR16A9.08--8.8024102014	Total/NA	Solid	D422	
200-25015-8	RXR16B-8.80--9.2024102014	Total/NA	Solid	D422	
200-25015-9	RXR16C-9.20--9.7024102014	Total/NA	Solid	D422	

Client Sample ID: RXR14A6.59--8.8024102014 — **Lab Sample ID: 200-25015-1**

Date Collected: 10/24/14 11:55 — **Matrix: Solid**

Date Received: 10/25/14 10:00 — **Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79852	11/04/14 12:10	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 15:09	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 09:19	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80806	11/19/14 18:18	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 18:24	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 15:42	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 16:48	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 12:17	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:07	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 06:52	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:32	SML	TAL BUR

Client Sample ID: RXR14B-8.80--9.2024102014 — **Lab Sample ID: 200-25015-2**

Date Collected: 10/24/14 12:00 — **Matrix: Solid**

Date Received: 10/25/14 10:00 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 18:31	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 15:47	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 09:44	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80806	11/19/14 18:43	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 18:46	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 15:49	BAA	TAL BUR
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		2	80725	11/17/14 21:28	NJR	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR

Lab Chronicle

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR14B-8.80--9.2024102014

Lab Sample ID: 200-25015-2

Date Collected: 10/24/14 12:00
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	80916	11/20/14 16:55	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:09	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:12	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:37	SML	TAL BUR

Client Sample ID: RXR14C-9.20--9.7024102014

Lab Sample ID: 200-25015-3

Date Collected: 10/24/14 12:05
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 19:02	NEA	TAL BUR
Total/NA	Prep	5035	RE		79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	79852	11/04/14 12:41	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 16:24	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 10:08	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80806	11/19/14 19:09	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 19:07	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 15:56	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 16:57	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:10	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:19	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:40	SML	TAL BUR

Client Sample ID: RXR15A9.33--8.8024102014 — **Lab Sample ID: 200-25015-4**
Date Collected: 10/24/14 12:55 — **Matrix: Solid**
Date Received: 10/25/14 10:00 — **Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 19:33	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 17:01	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 10:33	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80890	11/20/14 18:34	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 19:29	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:02	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 16:59	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:11	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:25	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:43	SML	TAL BUR

Client Sample ID: RXR15B-8.80--9.2024102014 — **Lab Sample ID: 200-25015-5**
Date Collected: 10/24/14 13:00 — **Matrix: Solid**
Date Received: 10/25/14 10:00 — **Percent Solids: 77.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 20:04	NEA	TAL BUR
Total/NA	Prep	5035	RE		79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	79852	11/04/14 13:11	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 17:38	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 10:58	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80890	11/20/14 18:59	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 19:50	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:09	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR

Lab Chronicle

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: RXR15B-8.80--9.2024102014

Lab Sample ID: 200-25015-5

Date Collected: 10/24/14 13:00
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	80916	11/20/14 17:01	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:12	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:32	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:46	SML	TAL BUR

Client Sample ID: RXR15C-9.20--9.7024102014

Lab Sample ID: 200-25015-6

Date Collected: 10/24/14 13:05
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 20:35	NEA	TAL BUR
Total/NA	Prep	5035	RE		79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	79852	11/04/14 15:55	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80273	11/11/14 18:15	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 11:22	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80806	11/19/14 20:25	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260899	11/06/14 21:38	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:16	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 17:04	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:13	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:38	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:47	SML	TAL BUR

Client Sample ID: RXR16A9.08--8.8024102014

Lab Sample ID: 200-25015-7

Date Collected: 10/24/14 14:00
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79804	11/03/14 21:07	NEA	TAL BUR
Total/NA	Prep	5035	RE		79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	79852	11/04/14 16:26	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80556	11/14/14 15:47	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 11:47	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80890	11/20/14 19:25	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260899	11/06/14 22:00	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:23	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 17:11	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:19	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:45	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:50	SML	TAL BUR

Client Sample ID: RXR16B-8.80--9.2024102014

Lab Sample ID: 200-25015-8

Date Collected: 10/24/14 14:05
Matrix: Solid
Date Received: 10/25/14 10:00
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79852	11/04/14 16:57	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80556	11/14/14 16:24	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 12:12	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80806	11/19/14 21:15	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260899	11/06/14 22:21	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:30	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR

Client Sample ID: RXR16B-8.80--9.2024102014 — **Lab Sample ID: 200-25015-8**

Date Collected: 10/24/14 14:05 — **Matrix: Solid**

Date Received: 10/25/14 10:00 — **Percent Solids: 93.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	80916	11/20/14 17:13	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:20	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 07:51	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:53	SML	TAL BUR

Client Sample ID: RXR16C-9.20--9.7024102014 — **Lab Sample ID: 200-25015-9**

Date Collected: 10/24/14 14:10 — **Matrix: Solid**

Date Received: 10/25/14 10:00 — **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			79815	10/27/14 10:45	NEA	TAL BUR
Total/NA	Analysis	8260C		1	79852	11/04/14 14:44	NEA	TAL BUR
Total/NA	Prep	3550C			79963	11/05/14 10:58	EAN	TAL BUR
Total/NA	Analysis	8270D		1	80556	11/14/14 17:01	DJB	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8081B		1	81355	11/29/14 12:36	RRM	TAL BUR
Total/NA	Prep	3541			80082	11/06/14 17:25	TPB	TAL BUR
Total/NA	Analysis	8082A		1	80890	11/20/14 19:50	ELD	TAL BUR
Total/NA	Prep	8151A			260107	11/03/14 17:50	JMS	TAL EDI
Total/NA	Analysis	8151A		1	260822	11/06/14 20:12	SAK	TAL EDI
Total/NA	Prep	3050B			79708	11/03/14 10:30	ERT	TAL BUR
Total/NA	Analysis	6010C		1	79964	11/04/14 16:37	BAA	TAL BUR
Total/NA	Prep	7471B			80723	11/19/14 14:00	ERT	TAL BUR
Total/NA	Analysis	7471B		1	80916	11/20/14 17:15	ERT	TAL BUR
Total/NA	Analysis	7196A		1	264188	11/20/14 15:07	JMP	TAL EDI
Total/NA	Prep	3060A			261772	11/11/14 07:30	PXP	TAL EDI
Total/NA	Analysis	7196A		1	261773	11/11/14 13:44	PXP	TAL EDI
Total/NA	Prep	9012B			80170	11/07/14 15:30	VTP	TAL BUR
Total/NA	Analysis	9012B		1	80701	11/07/14 19:21	VTP	TAL BUR
Total/NA	Analysis	Lloyd Kahn		1	79705	10/31/14 08:13	NJR	TAL BUR
Total/NA	Analysis	Moisture		1	79841	11/03/14 18:37	JKS	TAL BUR
Total/NA	Analysis	D422		1	79587	10/29/14 13:55	SML	TAL BUR

Lab Chronicle

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Client Sample ID: TRIP BLANK
Date Collected: 10/24/14 00:00
Date Received: 10/25/14 10:00

Lab Sample ID: 200-25015-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	80002	11/05/14 18:23	MTP	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8081B	3541	Solid	Mirex
D422		Solid	Coarse Sand
D422		Solid	Fine Sand
D422		Solid	Fines
D422		Solid	Gravel
D422		Solid	Medium Sand
D422		Solid	Sand
D422		Solid	Sieve Size #10 - Percent Finer
D422		Solid	Sieve Size #100 - Percent Finer
D422		Solid	Sieve Size #20 - Percent Finer
D422		Solid	Sieve Size #200 - Percent Finer
D422		Solid	Sieve Size #4 - Percent Finer
D422		Solid	Sieve Size #40 - Percent Finer
D422		Solid	Sieve Size #60 - Percent Finer
D422		Solid	Sieve Size #80 - Percent Finer
D422		Solid	Sieve Size 0.375 inch - Percent Finer
D422		Solid	Sieve Size 0.75 inch - Percent Finer
D422		Solid	Sieve Size 1 inch - Percent Finer
D422		Solid	Sieve Size 1.5 inch - Percent Finer
D422		Solid	Sieve Size 2 inch - Percent Finer
D422		Solid	Sieve Size 3 inch - Percent Finer
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)

Method Summary

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUR
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUR
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUR
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
8151A	Herbicides (GC)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL BUR
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUR
7196A	Chromium, Hexavalent	SW846	TAL EDI
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL EDI
9012B	Cyanide, Total andor Amenable	SW846	TAL BUR
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL BUR
D422	Grain Size	ASTM	TAL BUR

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: RXR Glen Isle Partners, LLC
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-25015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-25015-1	RXR14A6.59--8.8024102014	Solid	10/24/14 11:55	10/25/14 10:00
200-25015-2	RXR14B-8.80--9.2024102014	Solid	10/24/14 12:00	10/25/14 10:00
200-25015-3	RXR14C-9.20--9.7024102014	Solid	10/24/14 12:05	10/25/14 10:00
200-25015-4	RXR15A9.33--8.8024102014	Solid	10/24/14 12:55	10/25/14 10:00
200-25015-5	RXR15B-8.80--9.2024102014	Solid	10/24/14 13:00	10/25/14 10:00
200-25015-6	RXR15C-9.20--9.7024102014	Solid	10/24/14 13:05	10/25/14 10:00
200-25015-7	RXR16A9.08--8.8024102014	Solid	10/24/14 14:00	10/25/14 10:00
200-25015-8	RXR16B-8.80--9.2024102014	Solid	10/24/14 14:05	10/25/14 10:00
200-25015-9	RXR16C-9.20--9.7024102014	Solid	10/24/14 14:10	10/25/14 10:00
200-25015-10	TRIP BLANK	Water	10/24/14 00:00	10/25/14 10:00

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 200-25015-1

Glen Isle Waterfront Redevelop

Lot #: H4K030417

Don Dawicki

TestAmerica Burlington
30 Community Drive, Suite #11
South Burlington, VT 05403

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

November 20, 2014

ANALYTICAL METHODS SUMMARY

H4K030417

PARAMETER	ANALYTICAL METHOD
Dibenzodioxins and Dibenzofurans, HRGC/HRMS	SW846 8290A
Percent Moisture	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H4K030417

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M5FF7	001	RXR14A6.59--8.8024102014	10/24/14	11:55
M5FF8	002	RXR14B-8.80--9.2024102014	10/24/14	12:00
M5FF9	003	RXR14C-9.20--9.7024102014	10/24/14	12:05
M5FGA	004	RXR15A9.33--8.8024102014	10/24/14	12:55
M5FGC	005	RXR15B-8.80--9.2024102014	10/24/14	13:00
M5FGD	006	RXR15C-9.20--9.7024102014	10/24/14	13:05
M5FGE	007	RXR16A9.08--8.8024102014	10/24/14	14:00
M5FGF	008	RXR16B-8.80--9.2024102014	10/24/14	14:05
M5FGG	009	RXR16C-9.20--9.7024102014	10/24/14	14:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H4K030417

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

The COC and internal work share agreement requested analysis by Method 1613B. However, the method was changed to 8290A, per client request.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For solid and sediments samples, when percent moisture is included in the report header field, the sample results are reported on a dry weight basis. When percent moisture is not contained in the header field, sample results are reported on an as received or wet weight basis.

Samples RXR14B-8.80--9.2024102014, RXR15A9.33--8.8024102014, RXR15C-9.20--9.7024102014, RXR16B-8.80—9.2024102014 and RXR16C-9.20—9.7024102014 exhibited native OCDD above the upper calibration range. The method does not require further action be taken; therefore, the results were reported as is with an "E" qualifier.

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report, the ML is qualitatively defined as described above, and quantitatively defined as follows:

Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass

PROJECT NARRATIVE
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in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the Upper Calibration Level (UCL) described below. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this example, all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a detectable level. For this analysis, there is no method specified reporting level other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of $\geq$2.5 to 1. Therefore, the presence of any reportable amount of the analyte in the blank will result in a B qualifier on all associated samples.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. These criteria include the following:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio).
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- Polychlorinated dibenzofuran purity. No peak can be identified as a polychlorinated dibenzofuran if a polychlorinated diphenyl ether peak maximizes within +/- 2 seconds of the furan candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity due to a matrix-borne interference.

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C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer.

X – Other. See explanation in narrative.

Laboratory studies supporting risk assessment and Total Maximum Daily Load (TMDL) evaluations, frequently use qualified data reported as low as the Method Detection Limit (MDL), or the Estimated Detection Limit (EDL). Several of EPA's isotope dilution methods employ the EDL.[1,2,3] The EDL is based on a direct measurement of the signal-to-noise (S/N) ratio acquired during sample analysis. This S/N measurement is used to calculate the concentration in the sample corresponding to the minimum intensity of the smallest quantifiable peak. The EDL reflects the amount of the particular analyte which would be required to cause a positive result for the particular analysis. Because the S/N obtained covaries with recovery, instrument sensitivity and sample-specific cleanup efficacy, the EDL is a more valid measure of the sensitivity of the entire analytical process for the specific sample than is an MDL run periodically on a reference matrix.

The EDL is typically calculated according to the following equation:

$$\text{Estimated Detection Limit} = \frac{N \times 2.5 \times Qis}{His \times RRF \times W \times S}$$

Where:

N	=	peak to peak noise of quantitation ion signal in the region of the ion chromatogram where the compound of interest is expected to elute
His	=	peak height of quantitation ion for appropriate internal standard
Qis	=	ng of internal standard added to sample
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor.)

This method of estimating the detection limit differs from the MDL in that it does not carry the requirement that the sample be statistically distinguished as being from a contaminated population. As results approach the EDL, the risk of false positives and the analytical uncertainty increase significantly. However, a low false positive well below the ML or MDL is often closer to the true value than an assumption that the target analyte is present at the detection or reporting limits. For relatively clean samples, MDL studies may give an elevated estimate of the detection limit. Additionally, on contaminated samples, the MDL may give a falsely low estimate of the detection limit.

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$$\text{Analyte Concentration} = \frac{As \times Qis}{Ais \times RRF \times W \times S}$$

Where:

As	=	Sum of areas of the target peaks
Qis	=	ng of internal standard added to sample
Ais	=	Sum of areas of the internal standard peaks
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

In sample data, peaks must have an intensity of ≥2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 times the noise on the calibration. This is the result of normal variability. Because the source methods for the EDL (SW-846 8290 and 8280A) do not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

Footnotes:

1. Code of Federal Regulations, Part 136, Chapter 1, Appendix 1, October 1994: Method 1613 Tetra- Through Octa-Chlorinated Dioxins and Furans by Isotope Dilution High Resolution Gas Chromatography/High Resolution Mass Spectrometry.
2. U.S. EPA. Test Methods for Evaluating Solid Waste, Volume II, SW-846, Update III, December 1996. Method 8280A: The Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry.
3. U.S. EPA. Test Methods for Evaluating Solid Waste, SW-846. Third Edition. March 1995 Method 8290: Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Sample Data Summary

TestAmerica Burlington

Client Sample ID: RXR14A6.59--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 001	**Work Order #....:**	M5FF71AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	15
Initial Wgt/Vol :	11.9 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.992	0.0901	1.0	0.0450
1,2,3,7,8-PeCDD	**11/18/14**	**1**	**0.528 Q B J**	**4.96**	**0.0431**	**0.5**	**0.264**
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**0.758 J**	**4.96**	**0.0848**	**0.1**	**0.0758**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**1.17 J**	**4.96**	**0.0885**	**0.1**	**0.117**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**2.79 Q J**	**4.96**	**0.0818**	**0.1**	**0.279**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**54.0 B**	**4.96**	**0.252**	**0.01**	**0.540**
OCDD	**11/18/14**	**1**	**3140 B**	**9.92**	**0.613**	**0.001**	**3.14**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.0693 Q J**	**0.992**	**0.0209**	**0.1**	**0.00693**
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.96	0.0223	0.05	0.000558
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.96	0.0221	0.5	0.00552
1,2,3,4,7,8-HxCDF	**11/18/14**	**1**	**0.127 Q J**	**4.96**	**0.0227**	**0.1**	**0.0127**
1,2,3,6,7,8-HxCDF	**11/18/14**	**1**	**0.0664 Q J**	**4.96**	**0.0209**	**0.1**	**0.00664**
2,3,4,6,7,8-HxCDF	**11/18/14**	**1**	**0.141 J**	**4.96**	**0.0212**	**0.1**	**0.0141**
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.96	0.0267	0.1	0.00134
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.170 Q B J**	**4.96**	**0.0312**	**0.01**	**0.00170**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.96	0.0457	0.01	0.000228
OCDF	**11/18/14**	**1**	**0.976 Q B J**	**9.92**	**0.0278**	**0.001**	**0.000976**
Total TEQ Concentration							**4.51**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(40 - 135)
13C-1,2,3,7,8-PeCDD	60	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	78	(40 - 135)
13C-OCDD	70	(40 - 135)
13C-2,3,7,8-TCDF	78	(40 - 135)
13C-1,2,3,7,8-PeCDF	66	(40 - 135)
13C-2,3,4,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	69	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	74	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	73	(40 - 135)
13C-OCDF	63	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR14A6.59--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR14B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 002	**Work Order #....:**	M5FF81AE	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	13
Initial Wgt/Vol :	11.5 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	1.00	0.115	1.0	0.0575
1,2,3,7,8-PeCDD	11/18/14	1	ND	5.01	0.0707	0.5	0.0177
1,2,3,4,7,8-HxCDD	11/18/14	1	ND	5.01	0.0670	0.1	0.00335
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**0.487 Q J**	**5.01**	**0.0711**	**0.1**	**0.0487**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**2.50 Q J**	**5.01**	**0.0651**	**0.1**	**0.250**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**83.4 B**	**5.01**	**0.289**	**0.01**	**0.834**
OCDD	**11/18/14**	**1**	**8110 B E**	**10.0**	**0.385**	**0.001**	**8.11**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.0474 Q J**	**1.00**	**0.0198**	**0.1**	**0.00474**
1,2,3,7,8-PeCDF	11/18/14	1	ND	5.01	0.0214	0.05	0.000535
2,3,4,7,8-PeCDF	11/18/14	1	ND	5.01	0.0221	0.5	0.00552
1,2,3,4,7,8-HxCDF	**11/18/14**	**1**	**0.104 Q J**	**5.01**	**0.0177**	**0.1**	**0.0104**
1,2,3,6,7,8-HxCDF	**11/18/14**	**1**	**0.173 J**	**5.01**	**0.0153**	**0.1**	**0.0173**
2,3,4,6,7,8-HxCDF	11/18/14	1	ND	5.01	0.0165	0.1	0.000825
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	5.01	0.0226	0.1	0.00113
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.110 Q B J**	**5.01**	**0.0166**	**0.01**	**0.00110**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	5.01	0.0239	0.01	0.000120
OCDF	**11/18/14**	**1**	**0.625 Q B J**	**10.0**	**0.0327**	**0.001**	**0.000625**
Total TEQ Concentration							**9.36**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(40 - 135)
13C-1,2,3,7,8-PeCDD	55	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	68	(40 - 135)
13C-OCDD	76	(40 - 135)
13C-2,3,7,8-TCDF	69	(40 - 135)
13C-1,2,3,7,8-PeCDF	61	(40 - 135)
13C-2,3,4,7,8-PeCDF	60	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	60	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	67	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	68	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	69	(40 - 135)
13C-OCDF	63	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR14B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR14C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 003	**Work Order #....:**	M5FF91AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	16
Initial Wgt/Vol :	12.3 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.971	0.0865	1.0	0.0432
1,2,3,7,8-PeCDD	11/18/14	1	ND	4.85	0.0525	0.5	0.0131
1,2,3,4,7,8-HxCDD	11/18/14	1	ND	4.85	0.0591	0.1	0.00296
1,2,3,6,7,8-HxCDD	11/18/14	1	ND	4.85	0.0612	0.1	0.00306
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**1.01 J**	**4.85**	**0.0568**	**0.1**	**0.101**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**22.2 B**	**4.85**	**0.134**	**0.01**	**0.222**
OCDD	**11/18/14**	**1**	**2220 B**	**9.71**	**0.231**	**0.001**	**2.22**
2,3,7,8-TCDF	11/18/14	1	ND	0.971	0.0149	0.1	0.000745
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.85	0.0233	0.05	0.000582
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.85	0.0232	0.5	0.00580
1,2,3,4,7,8-HxCDF	11/18/14	1	ND	4.85	0.0184	0.1	0.000920
1,2,3,6,7,8-HxCDF	11/18/14	1	ND	4.85	0.0178	0.1	0.000890
2,3,4,6,7,8-HxCDF	11/18/14	1	ND	4.85	0.0185	0.1	0.000925
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.85	0.0241	0.1	0.00120
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.0855 Q B J**	**4.85**	**0.0125**	**0.01**	**0.000855**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.85	0.0196	0.01	0.0000980
OCDF	**11/18/14**	**1**	**0.356 Q B J**	**9.71**	**0.0214**	**0.001**	**0.000356**
Total TEQ Concentration							**2.62**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(40 - 135)
13C-1,2,3,7,8-PeCDD	52	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	68	(40 - 135)
13C-OCDD	72	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	63	(40 - 135)
13C-2,3,4,7,8-PeCDF	60	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	68	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	72	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	70	(40 - 135)
13C-OCDF	60	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR14C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR15A9.33--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 004	**Work Order #....:**	M5FGA1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	13
Initial Wgt/Vol :	12 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.956	0.0806	1.0	0.0403
1,2,3,7,8-PeCDD	11/18/14	1	ND	4.78	0.0418	0.5	0.0104
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**0.297 Q J**	**4.78**	**0.0561**	**0.1**	**0.0297**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**0.476 Q J**	**4.78**	**0.0587**	**0.1**	**0.0476**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**1.22 Q J**	**4.78**	**0.0542**	**0.1**	**0.122**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**57.8 B**	**4.78**	**0.173**	**0.01**	**0.578**
OCDD	**11/18/14**	**1**	**6790 B E**	**9.56**	**0.323**	**0.001**	**6.79**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.109 Q J**	**0.956**	**0.0271**	**0.1**	**0.0109**
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.78	0.0330	0.05	0.000825
2,3,4,7,8-PeCDF	**11/18/14**	**1**	**0.121 J**	**4.78**	**0.0327**	**0.5**	**0.0605**
1,2,3,4,7,8-HxCDF	**11/18/14**	**1**	**0.330 J**	**4.78**	**0.0236**	**0.1**	**0.0330**
1,2,3,6,7,8-HxCDF	**11/18/14**	**1**	**0.194 Q J**	**4.78**	**0.0214**	**0.1**	**0.0194**
2,3,4,6,7,8-HxCDF	**11/18/14**	**1**	**0.0750 Q J**	**4.78**	**0.0239**	**0.1**	**0.00750**
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.78	0.0308	0.1	0.00154
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.665 B J**	**4.78**	**0.0236**	**0.01**	**0.00665**
1,2,3,4,7,8,9-HpCDF	**11/18/14**	**1**	**0.0931 Q B J**	**4.78**	**0.0356**	**0.01**	**0.000931**
OCDF	**11/18/14**	**1**	**1.24 Q B J**	**9.56**	**0.0359**	**0.001**	**0.00124**
Total TEQ Concentration							**7.76**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(40 - 135)
13C-1,2,3,7,8-PeCDD	60	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	77	(40 - 135)
13C-2,3,7,8-TCDF	73	(40 - 135)
13C-1,2,3,7,8-PeCDF	64	(40 - 135)
13C-2,3,4,7,8-PeCDF	64	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	69	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	73	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	71	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	73	(40 - 135)
13C-OCDF	64	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR15A9.33--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR15B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 005	**Work Order #....:**	M5FGC1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	21
Initial Wgt/Vol :	12.9 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Melissa A. Davidson				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.984	0.102	1.0	0.0510
1,2,3,7,8-PeCDD	**11/18/14**	**1**	**0.287 Q B J**	**4.92**	**0.0495**	**0.5**	**0.143**
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**0.468 Q J**	**4.92**	**0.0405**	**0.1**	**0.0468**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**0.754 J**	**4.92**	**0.0414**	**0.1**	**0.0754**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**1.07 J**	**4.92**	**0.0386**	**0.1**	**0.107**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**22.4 B**	**4.92**	**0.149**	**0.01**	**0.224**
OCDD	**11/18/14**	**1**	**967 B**	**9.84**	**0.212**	**0.001**	**0.967**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.109 Q J**	**0.984**	**0.0252**	**0.1**	**0.0109**
1,2,3,7,8-PeCDF	**11/18/14**	**1**	**0.115 Q J**	**4.92**	**0.0307**	**0.05**	**0.00575**
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.92	0.0306	0.5	0.00765
1,2,3,4,7,8-HxCDF	11/18/14	1	ND	4.92	0.0168	0.1	0.000840
1,2,3,6,7,8-HxCDF	11/18/14	1	ND	4.92	0.0174	0.1	0.000870
2,3,4,6,7,8-HxCDF	11/18/14	1	ND	4.92	0.0179	0.1	0.000895
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.92	0.0226	0.1	0.00113
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.190 Q B J**	**4.92**	**0.0148**	**0.01**	**0.00190**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.92	0.0219	0.01	0.000110
OCDF	**11/18/14**	**1**	**0.410 Q B J**	**9.84**	**0.0130**	**0.001**	**0.000410**
Total TEQ Concentration							**1.65**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(40 - 135)
13C-1,2,3,7,8-PeCDD	56	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	70	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	68	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	62	(40 - 135)
13C-2,3,4,7,8-PeCDF	62	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	71	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	75	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	71	(40 - 135)
13C-OCDF	56	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR15B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR15C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 006	**Work Order #....:**	M5FGD1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	35
Initial Wgt/Vol :	16 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Melissa A. Davidson				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.962	0.0834	1.0	0.0417
1,2,3,7,8-PeCDD	**11/18/14**	**1**	**0.963 B J**	**4.81**	**0.0606**	**0.5**	**0.482**
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**1.58 Q J**	**4.81**	**0.0763**	**0.1**	**0.158**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**1.96 J**	**4.81**	**0.0819**	**0.1**	**0.196**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**4.83**	**4.81**	**0.0746**	**0.1**	**0.483**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**90.0 B**	**4.81**	**0.179**	**0.01**	**0.900**
OCDD	**11/18/14**	**1**	**4390 B E**	**9.62**	**0.217**	**0.001**	**4.39**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.0326 Q J**	**0.962**	**0.0171**	**0.1**	**0.00326**
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.81	0.0181	0.05	0.000452
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.81	0.0176	0.5	0.00440
1,2,3,4,7,8-HxCDF	11/18/14	1	ND	4.81	0.0150	0.1	0.000750
1,2,3,6,7,8-HxCDF	**11/18/14**	**1**	**0.0759 Q J**	**4.81**	**0.0137**	**0.1**	**0.00759**
2,3,4,6,7,8-HxCDF	**11/18/14**	**1**	**0.0715 Q J**	**4.81**	**0.0141**	**0.1**	**0.00715**
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.81	0.0189	0.1	0.000945
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.281 Q B J**	**4.81**	**0.0101**	**0.01**	**0.00281**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.81	0.0170	0.01	0.0000850
OCDF	**11/18/14**	**1**	**0.255 B J**	**9.62**	**0.0131**	**0.001**	**0.000255**
Total TEQ Concentration							**6.68**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(40 - 135)
13C-1,2,3,7,8-PeCDD	56	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	73	(40 - 135)
13C-OCDD	74	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	63	(40 - 135)
13C-2,3,4,7,8-PeCDF	61	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	70	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	75	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	75	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	70	(40 - 135)
13C-OCDF	64	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR15C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR16A9.08--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 007	**Work Order #....:**	M5FGE1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	35
Initial Wgt/Vol :	15.6 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Melissa A. Davidson				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.990	0.0941	1.0	0.0470
1,2,3,7,8-PeCDD	**11/18/14**	**1**	**0.753 Q B J**	**4.95**	**0.0528**	**0.5**	**0.376**
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**1.04 J**	**4.95**	**0.0614**	**0.1**	**0.104**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**1.48 J**	**4.95**	**0.0638**	**0.1**	**0.148**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**3.31 J**	**4.95**	**0.0591**	**0.1**	**0.331**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**60.7 B**	**4.95**	**0.123**	**0.01**	**0.607**
OCDD	**11/18/14**	**1**	**3340 B**	**9.90**	**0.238**	**0.001**	**3.34**
2,3,7,8-TCDF	**11/18/14**	**1**	**0.419 J**	**0.990**	**0.0327**	**0.1**	**0.0419**
1,2,3,7,8-PeCDF	**11/18/14**	**1**	**0.326 Q J**	**4.95**	**0.0338**	**0.05**	**0.0163**
2,3,4,7,8-PeCDF	**11/18/14**	**1**	**0.296 J**	**4.95**	**0.0328**	**0.5**	**0.148**
1,2,3,4,7,8-HxCDF	**11/18/14**	**1**	**0.644 Q J**	**4.95**	**0.0201**	**0.1**	**0.0644**
1,2,3,6,7,8-HxCDF	**11/18/14**	**1**	**0.517 Q J**	**4.95**	**0.0202**	**0.1**	**0.0517**
2,3,4,6,7,8-HxCDF	**11/18/14**	**1**	**0.299 J**	**4.95**	**0.0201**	**0.1**	**0.0299**
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.95	0.0252	0.1	0.00126
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**1.34 Q B J**	**4.95**	**0.0194**	**0.01**	**0.0134**
1,2,3,4,7,8,9-HpCDF	**11/18/14**	**1**	**0.261 Q B J**	**4.95**	**0.0268**	**0.01**	**0.00261**
OCDF	**11/18/14**	**1**	**1.28 B J**	**9.90**	**0.0125**	**0.001**	**0.00128**
Total TEQ Concentration							**5.32**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(40 - 135)
13C-1,2,3,7,8-PeCDD	61	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	78	(40 - 135)
13C-OCDD	74	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	68	(40 - 135)
13C-2,3,4,7,8-PeCDF	66	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	70	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	68	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	74	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	73	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	75	(40 - 135)
13C-OCDF	65	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR16A9.08--8.8024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR16B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 008	**Work Order #....:**	M5FGF1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	19
Initial Wgt/Vol :	12.5 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Melissa A. Davidson				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.991	0.0888	1.0	0.0444
1,2,3,7,8-PeCDD	11/18/14	1	ND	4.96	0.0507	0.5	0.0127
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**0.623 Q J**	**4.96**	**0.0832**	**0.1**	**0.0623**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**0.746 Q J**	**4.96**	**0.0871**	**0.1**	**0.0746**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**4.01 Q J**	**4.96**	**0.0804**	**0.1**	**0.401**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**132 B**	**4.96**	**0.246**	**0.01**	**1.32**
OCDD	**11/18/14**	**1**	**13800 B E**	**9.91**	**0.320**	**0.001**	**13.8**
2,3,7,8-TCDF	11/18/14	1	ND	0.991	0.0109	0.1	0.000545
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.96	0.0139	0.05	0.000348
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.96	0.0129	0.5	0.00322
1,2,3,4,7,8-HxCDF	11/18/14	1	ND	4.96	0.0120	0.1	0.000600
1,2,3,6,7,8-HxCDF	11/18/14	1	ND	4.96	0.0110	0.1	0.000550
2,3,4,6,7,8-HxCDF	11/18/14	1	ND	4.96	0.0121	0.1	0.000605
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.96	0.0153	0.1	0.000765
1,2,3,4,6,7,8-HpCDF	11/18/14	1	ND	4.96	0.0200	0.01	0.000100
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.96	0.0302	0.01	0.000151
OCDF	**11/18/14**	**1**	**0.376 B J**	**9.91**	**0.0210**	**0.001**	**0.000376**
Total TEQ Concentration							**15.7**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(40 - 135)
13C-1,2,3,7,8-PeCDD	55	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	73	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	73	(40 - 135)
13C-1,2,3,7,8-PeCDF	63	(40 - 135)
13C-2,3,4,7,8-PeCDF	63	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	70	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	71	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	72	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	73	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	70	(40 - 135)
13C-OCDF	68	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR16B-8.80--9.2024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR16C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H4K030417 - 009	**Work Order #....:**	M5FGG1AD	**Matrix.....:**	SE
Date Sampled....:	10/24/14	**Date Received....:**	11/01/14	**Units....:**	pg/g
Prep Date....:	11/11/14			**Dilution Factor:**	1
Prep Batch # ....:	4315010			**Percent Moisture:**	18
Initial Wgt/Vol :	12.8 g	**Instrument ID....:**	D2A	**Method....:**	SW846 8290A
Analyst ID....:	Melissa A. Davidson				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	11/18/14	1	ND	0.952	0.0886	1.0	0.0443
1,2,3,7,8-PeCDD	**11/18/14**	**1**	**0.320 Q B J**	**4.76**	**0.0613**	**0.5**	**0.160**
1,2,3,4,7,8-HxCDD	**11/18/14**	**1**	**0.444 Q J**	**4.76**	**0.0627**	**0.1**	**0.0444**
1,2,3,6,7,8-HxCDD	**11/18/14**	**1**	**0.497 Q J**	**4.76**	**0.0612**	**0.1**	**0.0497**
1,2,3,7,8,9-HxCDD	**11/18/14**	**1**	**3.03 J**	**4.76**	**0.0585**	**0.1**	**0.303**
1,2,3,4,6,7,8-HpCDD	**11/18/14**	**1**	**79.5 B**	**4.76**	**0.231**	**0.01**	**0.795**
OCDD	**11/18/14**	**1**	**7850 B E**	**9.52**	**0.308**	**0.001**	**7.85**
2,3,7,8-TCDF	11/18/14	1	ND	0.952	0.00835	0.1	0.000418
1,2,3,7,8-PeCDF	11/18/14	1	ND	4.76	0.0151	0.05	0.000378
2,3,4,7,8-PeCDF	11/18/14	1	ND	4.76	0.0146	0.5	0.00365
1,2,3,4,7,8-HxCDF	11/18/14	1	ND	4.76	0.0126	0.1	0.000630
1,2,3,6,7,8-HxCDF	11/18/14	1	ND	4.76	0.0126	0.1	0.000630
2,3,4,6,7,8-HxCDF	11/18/14	1	ND	4.76	0.0133	0.1	0.000665
1,2,3,7,8,9-HxCDF	11/18/14	1	ND	4.76	0.0163	0.1	0.000815
1,2,3,4,6,7,8-HpCDF	**11/18/14**	**1**	**0.0321 Q B J**	**4.76**	**0.0128**	**0.01**	**0.000321**
1,2,3,4,7,8,9-HpCDF	11/18/14	1	ND	4.76	0.0210	0.01	0.000105
OCDF	**11/18/14**	**1**	**0.339 B J**	**9.52**	**0.0178**	**0.001**	**0.000339**
Total TEQ Concentration							**9.25**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(40 - 135)
13C-1,2,3,7,8-PeCDD	56	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	79	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	72	(40 - 135)
13C-1,2,3,7,8-PeCDF	64	(40 - 135)
13C-2,3,4,7,8-PeCDF	62	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	70	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	77	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	72	(40 - 135)
13C-OCDF	67	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR16C-9.20--9.7024102014

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H4K110000 - 010B	**Work Order #....:**	M5G7T1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	11/11/14	**Analysis Date....:**	11/18/14	**Percent Moisture:**	0.0
Prep Batch # ....:	4315010				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	D2A	**Method:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		1.00	0.0813	pg/g
1,2,3,7,8-PeCDD	**0.177**	**Q J**	**5.00**	**0.0237**	**pg/g**
1,2,3,4,7,8-HxCDD	ND		5.00	0.0261	pg/g
1,2,3,6,7,8-HxCDD	ND		5.00	0.0262	pg/g
1,2,3,7,8,9-HxCDD	ND		5.00	0.0247	pg/g
1,2,3,4,6,7,8-HpCDD	**0.238**	**Q J**	**5.00**	**0.0225**	**pg/g**
OCDD	**1.57**	**J**	**10.0**	**0.0373**	**pg/g**
2,3,7,8-TCDF	ND		1.00	0.0156	pg/g
1,2,3,7,8-PeCDF	ND		5.00	0.0266	pg/g
2,3,4,7,8-PeCDF	ND		5.00	0.0240	pg/g
1,2,3,4,7,8-HxCDF	ND		5.00	0.0164	pg/g
1,2,3,6,7,8-HxCDF	ND		5.00	0.0163	pg/g
2,3,4,6,7,8-HxCDF	ND		5.00	0.0173	pg/g
1,2,3,7,8,9-HxCDF	ND		5.00	0.0225	pg/g
1,2,3,4,6,7,8-HpCDF	**0.111**	**Q J**	**5.00**	**0.0132**	**pg/g**
1,2,3,4,7,8,9-HpCDF	**0.0622**	**Q J**	**5.00**	**0.0192**	**pg/g**
OCDF	**0.275**	**J**	**10.0**	**0.0146**	**pg/g**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	40 - 135
13C-1,2,3,7,8-PeCDD	55	40 - 135
13C-1,2,3,4,7,8-HxCDD	72	40 - 135
13C-1,2,3,6,7,8-HxCDD	68	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 135
13C-OCDD	66	40 - 135
13C-2,3,7,8-TCDF	71	40 - 135
13C-1,2,3,7,8-PeCDF	59	40 - 135
13C-2,3,4,7,8-PeCDF	59	40 - 135
13C-1,2,3,4,7,8-HxCDF	71	40 - 135
13C-1,2,3,6,7,8-HxCDF	69	40 - 135
13C-2,3,4,6,7,8-HxCDF	71	40 - 135
13C-1,2,3,7,8,9-HxCDF	68	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	72	40 - 135
13C-OCDF	57	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H4K110000 - 010B	**Work Order #....:**	M5G7T1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	11/11/14	**Analysis Date....:**	11/18/14	**Percent Moisture:**	0.0
Prep Batch # ....:	4315010				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	D2A	**Method:**	SW846 8290A
Analyst ID....:	Linda K. McWhirter				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H4K030417	**Work Order # ...:**	M5G7T1AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H4K110000 - 010				
Prep Date .....:	11/11/14	**Analysis Date ..:**	11/18/14		
Prep Batch # ...:	4315010				
Dilution Factor :	1				
Analyst ID.....:	Linda K. McWhirter	**Instrument ID..:**	D2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	**20.0**	**20.7**	**pg/g**	**103**		**(79 - 129)**
1,2,3,7,8-PeCDD	**100**	**103**	**pg/g**	**103**	**B**	**(79 - 129)**
1,2,3,4,7,8-HxCDD	**100**	**102**	**pg/g**	**102**		**(73 - 123)**
1,2,3,6,7,8-HxCDD	**100**	**98.1**	**pg/g**	**98**		**(74 - 124)**
1,2,3,7,8,9-HxCDD	**100**	**107**	**pg/g**	**107**		**(70 - 124)**
1,2,3,4,6,7,8-HpCDD	**100**	**97.8**	**pg/g**	**98**	**B**	**(73 - 123)**
OCDD	**200**	**187**	**pg/g**	**94**	**B**	**(75 - 125)**
2,3,7,8-TCDF	**20.0**	**20.7**	**pg/g**	**104**		**(75 - 125)**
1,2,3,7,8-PeCDF	**100**	**103**	**pg/g**	**103**		**(74 - 124)**
2,3,4,7,8-PeCDF	**100**	**99.0**	**pg/g**	**99**		**(75 - 125)**
1,2,3,4,7,8-HxCDF	**100**	**102**	**pg/g**	**102**		**(75 - 125)**
1,2,3,6,7,8-HxCDF	**100**	**100**	**pg/g**	**100**		**(76 - 126)**
2,3,4,6,7,8-HxCDF	**100**	**102**	**pg/g**	**102**		**(76 - 126)**
1,2,3,7,8,9-HxCDF	**100**	**106**	**pg/g**	**106**		**(77 - 127)**
1,2,3,4,6,7,8-HpCDF	**100**	**93.3**	**pg/g**	**93**	**B**	**(77 - 127)**
1,2,3,4,7,8,9-HpCDF	**100**	**98.7**	**pg/g**	**99**	**B**	**(73 - 123)**
OCDF	**200**	**194**	**pg/g**	**97**	**B**	**(49 - 128)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(40 - 135)
13C-1,2,3,7,8-PeCDD	55	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	79	(40 - 135)
13C-OCDD	68	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	56	(40 - 135)
13C-2,3,4,7,8-PeCDF	59	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	69	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	79	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	77	(40 - 135)
13C-OCDF	58	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Sample Receipt Documentation

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

H4K030417

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dawicki, Don C	Carrier Tracking No(s):	COC No: 200-19687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: don.dawicki@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-25015-1
Address: 5815 Middlebrook Pike,	Due Date Requested: 11/20/2014			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalency Total (Knoxville Laboratory))	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR14A6.59–8.8024102014 (200-25015-1)	10/24/14	11:55 Eastern		Solid			X		RT: 0.9c CT: 0.3c
RXR14B-8.80–9.2024102014 (200-25015-2)	10/24/14	12:00 Eastern		Solid			X		No custody seal
RXR14C-9.20–9.7024102014 (200-25015-3)	10/24/14	12:05 Eastern		Solid			X		1 cooler, Fedex PO
RXR15A9.33–8.8024102014 (200-25015-4)	10/24/14	12:55 Eastern		Solid			X		Lab# 6221 4220 1579
RXR15B-8.80–9.2024102014 (200-25015-5)	10/24/14	13:00 Eastern		Solid			X		SC 5-7
RXR15C-9.20–9.7024102014 (200-25015-6)	10/24/14	13:05 Eastern		Solid			X		KLW 10/31/14
RXR16A9.08–8.8024102014 (200-25015-7)	10/24/14	14:00 Eastern		Solid			X		
RXR16B-8.80–9.2024102014 (200-25015-8)	10/24/14	14:05 Eastern		Solid			X		
RXR16C-9.20–9.7024102014 (200-25015-9)	10/24/14	14:10 Eastern		Solid			X		

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/31/14	TA		11/1/14 0910	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H4K030417

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	NA
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : 6C57 Correction factor: -0.1	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** See box 3A for pH Preservation ☐ **3b** Other:	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?		✓	✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	**pH test strip lot number:**
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓		☐ **19a** Other	

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: NA

Sample Receiving Associate: [signature] Date: 11-3-14

QA026R28.doc, 042414

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) Ellis Koch	Samplers Name (Printed) Amanda J Racaniello	Site/Project Identification Glen Isle Waterfront Redevelopment
Company RXR-Glen Isle Partners, LLC	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 625 RXR Plaza		Regulatory Program:
City Uniondale State NY		
Phone Fax		

Analysis Turnaround Time: Standard ☒ Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐

ANALYSIS REQUESTED (ENTER "X: BELOW" TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of. Cont.	D422	TOC (9060A)	8270C	8081A/8082A	6010B/7471B	Lloyd Kahn/9012	8151A/7196A	Dioxin (1613B)	8260B/C			Sample Numbers
RXR14A 6.59 – 8.80 24102014	10/24/14	1155	SO	8	X(1)	X(1)	X(2)	X(2)	X(2)	X(2)	X(2)	X(2)	X(2)			
RXR14B – 8.80 – 9.20 24102014	↓	1200	↓	↓												
RXR14C – 9.20 – 9.70 24102014	↓	1205	↓	↓												
RXR15A 9.33 – 8.80 24102014	↓	1255	↓	↓												
RXR15B – 8.80 – 9.20 24102014	↓	1300	↓	↓												
RXR15C – 9.20 – 9.70 24102014	↓	1305	↓	↓												
RXR16A 9.08 – 8.80 24102014	↓	1400	↓	↓												
RXR16B – 8.80 – 9.20 24102014	↓	1405	↓	↓												
RXR16C – 9.20 – 9.70 24102014	↓	1410	↓	↓												
TB	—	—	—	1									X(2)			

200-25015 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water:

Special Instructions (1) Primary Analysis (2) If (1) samples contain more than 10% of material passing through No. 200 sieve or >0.5% TOC
Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	PWGC	10/24/14 14:32	1) [signature]	TA
2) B. Sommi	TA	10-24-14 16:00	2) [signature]	TABTV 10/25/14 10:00
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0408)

From: (646) 745-0906
TestAmerica NYC

47-32 32nd Place,
Suite 1141
Long Island City, NY 11101

Origin ID: AIVA

FedEx Express

J142214092303uv

Ship Date: 24OCT14
ActWgt: 32.0 LB
CAD: 101905570/INET3550

Dims: 24 X 20 X 18 IN

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (802) 660-1990

BILL RECIPIENT

Sampling Reciveing BVT
TestAmerica
30 COMMUNITY DR STE 11

SOUTH BURLINGTON, VT 05403

1 of 2

TRK# 0201 7716 2058 6466

MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 BTVA

05403
VT-US
BTV

From: (646) 745-0906
TestAmerica NYC

47-32 32nd Place,
Suite 1141
Long Island City, NY 11101

Origin ID: AIVA

FedEx Express

J142214092303uv

Ship Date: 24OCT14
ActWgt: 38.0 LB
CAD: 101905570/INET3550

Dims: 24 X 20 X 18 IN

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (802) 660-1990

BILL RECIPIENT

Sampling Reciveing BVT
TestAmerica
30 COMMUNITY DR STE 11

SOUTH BURLINGTON, VT 05403

2 of 2

MPS# 0263 7716 2058 7304

Mstr# 7716 2058 6466 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 BTVA

05403
VT-US
BTV

Login Sample Receipt Checklist

Client: RXR Glen Isle Partners, LLC

Job Number: 200-25015-1

Login Number: 25015

List Source: TestAmerica Burlington

List Number: 1

Creator: Goodrich, Kenneth L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2,0.6ºC IR GUN 181, CF 0.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: RXR Glen Isle Partners, LLC

Job Number: 200-25015-1

Login Number: 25015
List Number: 2
Creator: Rivera, Kenneth

List Source: TestAmerica Edison
List Creation: 11/01/14 03:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C, IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-29279-2
TestAmerica Sample Delivery Group: 200-29279
Client Project/Site: Glen Isle Waterfront Redevelopment

For:
Posillico Consulting
1750 New Highway
Farmingdale, New York 11735

Attn: Ellis Koch

Authorized for release by:
9/29/2015 3:39:32 PM

Stephanie Sanders, Project Manager I
(303)736-0196
stephanie.sanders@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
H	Sample was prepped or analyzed beyond the specified holding time

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-29279-2

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: Posillico Consulting

Project: Glen Isle Waterfront Redevelopment

Report Number: 200-29279-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/14/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4º C, 0.6º C and 1.2º C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB001_13082015 (200-29279-3). The COC lists 18 containers. However, 19 containers were actually received.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were prepared on 08/13/2015 and analyzed on 08/27/2015 and 09/08/2015.

Internal standard (ISTD) response for the following sample was outside control limits: RXR13B/-11.2--11.7/13082015 (200-29279-1). The sample(s) was re-extracted and/or re-analyzed outside of the holding time and both sets of data have been reported.

The continuing calibration verification (CCV) associated with batch 200-93681 recovered above the upper control limit for 1,4-dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methylene Chloride was detected in method blank MB 200-93214/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected in method blank MB 200-93681/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS

Samples FB001_13082015 (200-29279-3) and TB (200-29279-4) were analyzed for Volatile Organic Compounds in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 08/27/2015.

Methylene Chloride was detected in method blank MB 200-93257/8 at a level that was above the method detection limit but below the

Job ID: 200-29279-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270D. The samples were prepared on 08/26/2015 and analyzed on 09/02/2015 and 09/04/2015.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl, 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for RXR13C/-11.7--12.2/13082015 (200-29279-2). Due to the dilution performed on this sample, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1)[5X] and RXR13C/-11.7--12.2/13082015 (200-29279-2)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample FB001_13082015 (200-29279-3) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/14/2015 and analyzed on 09/02/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for organochlorine pesticides in accordance with 8081B. The samples were prepared and analyzed on 08/26/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Sample FB001_13082015 (200-29279-3) was analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081B. The samples were prepared on 08/14/2015 and analyzed on 09/01/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/25/2015 and analyzed on 09/22/2015.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for RXR13C/-11.7--12.2/13082015 (200-29279-2). Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. These results have been reported and qualified.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for MB 200-93141/1-B. Refer to the QC report for details.

PCB-1016 and PCB-1260 failed the recovery criteria low for LCS 200-93141/2-B. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample FB001_13082015 (200-29279-3) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/14/2015 and analyzed on 08/25/2015.

Job ID: 200-29279-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/26/2015 and analyzed on 09/02/2015.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for RXR13B/-11.2--11.7/13082015 (200-29279-1).
2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for RXR13C/-11.7--12.2/13082015 (200-29279-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The closing continuing calibration verification (CCVC) associated with batch 319166 recovered outside the control limit for Silvex (2,4,5-TP) on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES
Sample FB001_13082015 (200-29279-3) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/18/2015 and analyzed on 08/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/31/2015 and analyzed on 09/02/2015.

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1)[4X] and RXR13C/-11.7--12.2/13082015 (200-29279-2)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)
Sample FB001_13082015 (200-29279-3) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 08/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM
Sample FB001_13082015 (200-29279-3) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 08/15/2015.

The following Hexavalent chrome samples was received outside of holding time: FB001_13082015 (200-29279-3). The sample collection date was 8/13/15 and the sample was received at the lab performing the analysis on 8/15/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY
Sample FB001_13082015 (200-29279-3) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for mercury in

Job ID: 200-29279-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 09/10/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 08/27/2015 and analyzed on 08/28/2015 and 08/29/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 09/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM
Sample FB001_13082015 (200-29279-3) was analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 08/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/27/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample FB001_13082015 (200-29279-3) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/27/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 08/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND OTHER GAMMA EMITTERS
Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for Radium-226 and Other Gamma Emitters in accordance with 901.1. The samples were leached on 08/25/2015, prepared on 08/27/2015 and analyzed on 09/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND OTHER GAMMA EMITTERS
Sample FB001_13082015 (200-29279-3) was analyzed for Radium-226 and Other Gamma Emitters in accordance with 901.1. The samples were prepared on 08/19/2015 and analyzed on 09/09/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC THORIUM

Job ID: 200-29279-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 08/25/2015, prepared on 09/15/2015 and analyzed on 09/17/2015.

The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2). The samples contain rocks.

The samples had a sandy precipitate that was in the bottom of the centrifuge tubes prior to syringe filtering. Possible matrix interference. RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC THORIUM

Sample FB001_13082015 (200-29279-3) was analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were prepared on 08/20/2015 and analyzed on 08/24/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC URANIUM

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for Isotopic Uranium in accordance with A01R_U. The samples were leached on 08/25/2015, prepared on 08/31/2015 and analyzed on 09/13/2015.

The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2). The samples contain rocks.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC URANIUM

Sample FB001_13082015 (200-29279-3) was analyzed for Isotopic Uranium in accordance with A01R_U. The samples were prepared on 08/20/2015 and analyzed on 08/24/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND RADIUM-228

Samples RXR13B/-11.2--11.7/13082015 (200-29279-1) and RXR13C/-11.7--12.2/13082015 (200-29279-2) were analyzed for Radium-226 and Radium-228 in accordance with Ra226_Ra228. The samples were analyzed on 09/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND RADIUM-228

Sample FB001_13082015 (200-29279-3) was analyzed for Radium-226 and Radium-228 in accordance with Ra226_Ra228. The samples were analyzed on 09/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: RXR13B/-11.2--11.7/13082015

Lab Sample ID: 200-29279-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.0	J	6.5	0.86	ug/Kg	1	☼	8260C	Total/NA
Acetone	120		6.5	5.3	ug/Kg	1	☼	8260C	Total/NA
trans-1,2-Dichloroethene	1.5	J	6.5	0.11	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	5.2	J	6.5	0.44	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	45		6.5	2.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.8	J *	6.5	0.25	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.9	J *	6.5	0.38	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.57	J *	6.5	0.088	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.6	J *	6.5	0.49	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	1.2	J *	6.5	0.069	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.8	J *	13	0.069	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.5	J *	6.5	0.16	ug/Kg	1	☼	8260C	Total/NA
Vinyl chloride - RE	5.6	J H *	7.6	1.0	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	1900	H E *	7.6	6.3	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.2	J H *	7.6	0.86	ug/Kg	1	☼	8260C	Total/NA
trans-1,2-Dichloroethene - RE	2.6	J H *	7.6	0.13	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether - RE	1.9	J H *	7.6	0.52	ug/Kg	1	☼	8260C	Total/NA
Chloroform - RE	1.3	J H *	7.6	0.67	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	1.4	J H *	7.6	0.66	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene - RE	5.0	J H *	7.6	0.87	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	6.3	J H *	7.6	0.29	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	5.5	J H *	7.6	0.44	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	4.4	J H *	7.6	0.58	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	2.8	J H *	7.6	0.081	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	7.2	J H *	15	0.081	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	1.3	J H *	7.6	0.34	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	3.3	J H *	7.6	0.18	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	670	J	2600	65	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	630	J	2600	57	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	140	J	2600	66	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	1800	J	2600	62	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	750	J	2600	78	ug/Kg	5	☼	8270D	Total/NA
Fluorene	1700	J	2600	56	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	28000		2600	68	ug/Kg	5	☼	8270D	Total/NA
Anthracene	4900		2600	240	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	20000		2600	76	ug/Kg	5	☼	8270D	Total/NA
Pyrene	37000		2600	120	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	13000		260	210	ug/Kg	5	☼	8270D	Total/NA
Chrysene	14000		2600	70	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	13000		260	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	5200		260	110	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	11000		260	78	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	10000		260	170	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2800		260	130	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	11000		2600	150	ug/Kg	5	☼	8270D	Total/NA
PCB-1242	100		26	2.1	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	100	p	26	3.8	ug/Kg	1	☼	8082A	Total/NA
Silver	20.9		3.0	0.53	mg/Kg	4	☼	6010C	Total/NA
Arsenic	25.1		4.5	1.5	mg/Kg	4	☼	6010C	Total/NA
Barium	54.6	J	60.6	2.2	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: RXR13B/-11.2--11.7/13082015 (Continued) — Lab Sample ID: 200-29279-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	2.6		1.2	0.63	mg/Kg	4	☼	6010C	Total/NA
Chromium	32.0		3.0	1.5	mg/Kg	4	☼	6010C	Total/NA
Copper	143		7.6	2.0	mg/Kg	4	☼	6010C	Total/NA
Manganese	201		4.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Nickel	21.8		12.1	2.2	mg/Kg	4	☼	6010C	Total/NA
Lead	155		3.0	1.2	mg/Kg	4	☼	6010C	Total/NA
Selenium	4.7	J	6.1	2.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	187		9.1	2.2	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.37		0.024	0.017	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	32.0		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.15		0.15	0.024	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR13C/-11.7--12.2/13082015 — Lab Sample ID: 200-29279-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	54		6.5	5.4	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.0	J B	6.5	0.73	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	7.4		6.5	0.45	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	7.1		6.5	2.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.6	J	6.5	0.25	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.42	J	6.5	0.38	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.42	J	6.5	0.089	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.4	J	6.5	0.50	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.50	J	6.5	0.069	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.9	J	13	0.069	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.71	J	6.5	0.16	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene - DL	730	J	27000	600	ug/Kg	50	☼	8270D	Total/NA
Acenaphthylene - DL	2400	J	27000	700	ug/Kg	50	☼	8270D	Total/NA
Acenaphthene - DL	6000	J	27000	660	ug/Kg	50	☼	8270D	Total/NA
Dibenzofuran - DL	1300	J	27000	830	ug/Kg	50	☼	8270D	Total/NA
Fluorene - DL	6000	J	27000	600	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene - DL	120000		27000	730	ug/Kg	50	☼	8270D	Total/NA
Anthracene - DL	28000		27000	2600	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene - DL	180000		27000	810	ug/Kg	50	☼	8270D	Total/NA
Pyrene - DL	200000		27000	1200	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene - DL	100000		2700	2300	ug/Kg	50	☼	8270D	Total/NA
Chrysene - DL	100000		27000	740	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	84000		2700	1100	ug/Kg	50	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	36000		2700	1200	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene - DL	84000		2700	830	ug/Kg	50	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	46000		2700	1800	ug/Kg	50	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	12000		2700	1400	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	49000		27000	1600	ug/Kg	50	☼	8270D	Total/NA
PCB-1242	90		28	2.3	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	94	p	28	4.1	ug/Kg	1	☼	8082A	Total/NA
Silver	21.8		3.0	0.54	mg/Kg	4	☼	6010C	Total/NA
Arsenic	24.7		4.6	1.5	mg/Kg	4	☼	6010C	Total/NA
Barium	64.3		60.8	2.2	mg/Kg	4	☼	6010C	Total/NA
Beryllium	0.62		0.61	0.52	mg/Kg	4	☼	6010C	Total/NA
Cadmium	4.5		1.2	0.63	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR13C/-11.7--12.2/13082015 (Continued) — Lab Sample ID: 200-29279-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	39.8		3.0	1.5	mg/Kg	4	☼	6010C	Total/NA
Copper	187		7.6	2.0	mg/Kg	4	☼	6010C	Total/NA
Manganese	260		4.6	1.6	mg/Kg	4	☼	6010C	Total/NA
Nickel	39.7		12.2	2.2	mg/Kg	4	☼	6010C	Total/NA
Lead	233		3.0	1.2	mg/Kg	4	☼	6010C	Total/NA
Selenium	3.4	J	6.1	2.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	244		9.1	2.2	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.23		0.027	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	39.8		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: FB001_13082015 — Lab Sample ID: 200-29279-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.50	J B	1.0	0.23	ug/L	1		8260C	Total/NA
Toluene	0.35	J	1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.30	J	1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: TB — Lab Sample ID: 200-29279-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	5.0	1.7	ug/L	1		8260C	Total/NA
Methylene Chloride	0.39	J B	1.0	0.23	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR13B/-11.2--11.7/13082015

Date Collected: 08/13/15 13:30
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-1

Matrix: Solid
Percent Solids: 64.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**2.0**	**J**	6.5	0.86	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,1-Dichloroethene	6.5	U	6.5	0.36	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Acetone	**120**		6.5	5.3	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Methylene Chloride	6.5	U	6.5	0.73	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
trans-1,2-Dichloroethene	**1.5**	**J**	6.5	0.11	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Methyl tert-butyl ether	**5.2**	**J**	6.5	0.44	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,3-Dichlorobenzene	6.5	U *	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,1-Dichloroethane	6.5	U	6.5	0.58	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
cis-1,2-Dichloroethene	6.5	U	6.5	0.56	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
2-Butanone (MEK)	**45**		6.5	2.9	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Chloroform	6.5	U	6.5	0.57	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,1,1-Trichloroethane	6.5	U	6.5	0.40	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Carbon tetrachloride	6.5	U	6.5	0.070	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Benzene	6.5	U	6.5	0.56	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,2-Dichloroethane	6.5	U	6.5	1.1	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Trichloroethene	6.5	U	6.5	0.74	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,4-Dioxane	130	U	130	18	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Toluene	**2.8**	**J ***	6.5	0.25	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Tetrachloroethene	**1.9**	**J ***	6.5	0.38	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Chlorobenzene	6.5	U *	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Ethylbenzene	**0.57**	**J ***	6.5	0.088	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
m-Xylene & p-Xylene	**1.6**	**J ***	6.5	0.49	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
o-Xylene	**1.2**	**J ***	6.5	0.069	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
Xylenes, Total	**2.8**	**J ***	13	0.069	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
N-Propylbenzene	6.5	U *	6.5	0.40	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,3,5-Trimethylbenzene	6.5	U *	6.5	0.29	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
tert-Butylbenzene	6.5	U *	6.5	0.32	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,2,4-Trimethylbenzene	**2.5**	**J ***	6.5	0.16	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
sec-Butylbenzene	6.5	U *	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,4-Dichlorobenzene	6.5	U *	6.5	0.49	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
1,2-Dichlorobenzene	6.5	U *	6.5	0.17	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1
n-Butylbenzene	6.5	U *	6.5	0.34	ug/Kg	☼	08/14/15 12:35	08/27/15 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*35 - 145*	*08/14/15 12:35*	*08/27/15 01:21*	*1*
Toluene-d8 (Surr)	*144*		*40 - 175*	*08/14/15 12:35*	*08/27/15 01:21*	*1*
4-Bromofluorobenzene	*138*		*30 - 200*	*08/14/15 12:35*	*08/27/15 01:21*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*08/14/15 12:35*	*08/27/15 01:21*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**5.6**	**J H ***	7.6	1.0	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,1-Dichloroethene	7.6	U H *	7.6	0.43	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Acetone	**1900**	**H E ***	7.6	6.3	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Methylene Chloride	**1.2**	**J H ***	7.6	0.86	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
trans-1,2-Dichloroethene	**2.6**	**J H ***	7.6	0.13	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Methyl tert-butyl ether	**1.9**	**J H ***	7.6	0.52	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,3-Dichlorobenzene	7.6	U H *	7.6	0.17	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,1-Dichloroethane	7.6	U H *	7.6	0.69	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
cis-1,2-Dichloroethene	7.6	U H *	7.6	0.66	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1

Client Sample ID: RXR13B/-11.2--11.7/13082015
Date Collected: 08/13/15 13:30
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-1
Matrix: Solid
Percent Solids: 64.1

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	7.6	U H *	7.6	3.4	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Chloroform	**1.3**	**J H ***	7.6	0.67	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,1,1-Trichloroethane	7.6	U H *	7.6	0.47	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Carbon tetrachloride	7.6	U H *	7.6	0.083	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Benzene	**1.4**	**J H ***	7.6	0.66	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,2-Dichloroethane	7.6	U H *	7.6	1.3	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Trichloroethene	**5.0**	**J H ***	7.6	0.87	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,4-Dioxane	150	U H	150	21	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Toluene	**6.3**	**J H ***	7.6	0.29	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Tetrachloroethene	**5.5**	**J H ***	7.6	0.44	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Chlorobenzene	7.6	U H *	7.6	0.17	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Ethylbenzene	7.6	U H *	7.6	0.10	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
m-Xylene & p-Xylene	**4.4**	**J H ***	7.6	0.58	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
o-Xylene	**2.8**	**J H ***	7.6	0.081	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
Xylenes, Total	**7.2**	**J H ***	15	0.081	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
N-Propylbenzene	7.6	U H *	7.6	0.47	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,3,5-Trimethylbenzene	**1.3**	**J H ***	7.6	0.34	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
tert-Butylbenzene	7.6	U H *	7.6	0.38	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,2,4-Trimethylbenzene	**3.3**	**J H ***	7.6	0.18	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
sec-Butylbenzene	7.6	U H *	7.6	0.17	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,4-Dichlorobenzene	7.6	U H *	7.6	0.58	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
1,2-Dichlorobenzene	7.6	U H *	7.6	0.20	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1
n-Butylbenzene	7.6	U H *	7.6	0.40	ug/Kg	☼	08/14/15 12:35	09/08/15 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*35 - 145*	*08/14/15 12:35*	*09/08/15 19:09*	*1*
Toluene-d8 (Surr)	*151*		*40 - 175*	*08/14/15 12:35*	*09/08/15 19:09*	*1*
4-Bromofluorobenzene	*137*		*30 - 200*	*08/14/15 12:35*	*09/08/15 19:09*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*08/14/15 12:35*	*09/08/15 19:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	2600	U	2600	84	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
2-Methylphenol	2600	U	2600	110	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
3 & 4 Methylphenol	2600	U	2600	68	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Naphthalene	**670**	**J**	2600	65	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
2-Methylnaphthalene	**630**	**J**	2600	57	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
2-Chloronaphthalene	2600	U	2600	58	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Acenaphthylene	**140**	**J**	2600	66	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Acenaphthene	**1800**	**J**	2600	62	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Dibenzofuran	**750**	**J**	2600	78	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Fluorene	**1700**	**J**	2600	56	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Hexachlorobenzene	260	U	260	100	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Pentachlorophenol	2100	U	2100	310	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Phenanthrene	**28000**		2600	68	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Anthracene	**4900**		2600	240	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Fluoranthene	**20000**		2600	76	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Pyrene	**37000**		2600	120	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Benzo[a]anthracene	**13000**		260	210	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Chrysene	**14000**		2600	70	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5

Client Sample ID: RXR13B/-11.2--11.7/13082015
Date Collected: 08/13/15 13:30
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-1
Matrix: Solid
Percent Solids: 64.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**13000**		260	100	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Benzo[k]fluoranthene	**5200**		260	110	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Benzo[a]pyrene	**11000**		260	78	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Indeno[1,2,3-cd]pyrene	**10000**		260	170	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Dibenz(a,h)anthracene	**2800**		260	130	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5
Benzo[g,h,i]perylene	**11000**		2600	150	ug/Kg	☼	08/26/15 08:36	09/02/15 02:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*28 - 92*	*08/26/15 08:36*	*09/02/15 02:38*	*5*
2-Fluorobiphenyl	*61*		*27 - 84*	*08/26/15 08:36*	*09/02/15 02:38*	*5*
Terphenyl-d14 (Surr)	*74*		*16 - 114*	*08/26/15 08:36*	*09/02/15 02:38*	*5*
2,4,6-Tribromophenol (Surr)	*41*		*10 - 95*	*08/26/15 08:36*	*09/02/15 02:38*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 84*	*08/26/15 08:36*	*09/02/15 02:38*	*5*
Phenol-d5 (Surr)	*55*		*22 - 88*	*08/26/15 08:36*	*09/02/15 02:38*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.1	U	3.1	0.95	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
gamma-BHC (Lindane)	3.1	U	3.1	0.94	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
beta-BHC	3.1	U	3.1	1.0	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
delta-BHC	3.1	U	3.1	1.1	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Heptachlor	10	U	10	1.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Aldrin	10	U	10	1.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
gamma-Chlordane	10	U	10	2.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
alpha-Chlordane	10	U	10	1.7	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
4,4'-DDE	10	U	10	1.5	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Endosulfan I	10	U	10	1.5	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Dieldrin	3.1	U	3.1	1.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Endrin	10	U	10	1.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
4,4'-DDD	10	U	10	1.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Endosulfan II	10	U	10	1.6	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
4,4'-DDT	10	U	10	1.1	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Endosulfan sulfate	10	U	10	1.2	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Chlordane (technical)	100	U	100	46	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1
Mirex	10	U	10	2.0	ug/Kg	☼	08/26/15 08:20	08/26/15 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*115*		*55 - 139*	*08/26/15 08:20*	*08/26/15 15:25*	*1*
Tetrachloro-m-xylene	*104*		*55 - 139*	*08/26/15 08:20*	*08/26/15 15:25*	*1*
DCB Decachlorobiphenyl	*107*		*55 - 148*	*08/26/15 08:20*	*08/26/15 15:25*	*1*
DCB Decachlorobiphenyl	*106*		*55 - 148*	*08/26/15 08:20*	*08/26/15 15:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26	U *	26	2.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1
PCB-1221	26	U	26	2.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1
PCB-1232	26	U	26	2.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1
PCB-1242	**100**		26	2.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1
PCB-1248	26	U	26	2.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1
PCB-1254	**100**	**p**	26	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1

Client Sample ID: RXR13B/-11.2--11.7/13082015
Date Collected: 08/13/15 13:30
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-1
Matrix: Solid
Percent Solids: 64.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	26	U *	26	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*30 - 130*	*08/25/15 10:45*	*09/22/15 15:23*	*1*
Tetrachloro-m-xylene	*50*		*30 - 130*	*08/25/15 10:45*	*09/22/15 15:23*	*1*
DCB Decachlorobiphenyl	*62*		*45 - 125*	*08/25/15 10:45*	*09/22/15 15:23*	*1*
DCB Decachlorobiphenyl	*61*		*45 - 125*	*08/25/15 10:45*	*09/22/15 15:23*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	26	U	26	18	ug/Kg	☼	08/26/15 11:22	09/02/15 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*365*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 19:30*	*1*
2,4-Dichlorophenylacetic acid	*386*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 19:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**20.9**		3.0	0.53	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Arsenic	**25.1**		4.5	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Barium	**54.6**	**J**	60.6	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Beryllium	0.61	U	0.61	0.51	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Cadmium	**2.6**		1.2	0.63	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Chromium	**32.0**		3.0	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Copper	**143**		7.6	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Manganese	**201**		4.5	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Nickel	**21.8**		12.1	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Lead	**155**		3.0	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Selenium	**4.7**	**J**	6.1	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4
Zinc	**187**		9.1	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:38	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**		0.024	0.017	mg/Kg	☼	09/10/15 05:11	09/10/15 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.1	U	3.1	1.3	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	3.1	U	3.1	1.3	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**32.0**		2.0	2.0	mg/Kg			09/16/15 08:55	1
Cyanide, Total	**0.15**		0.15	0.024	mg/Kg	☼	08/27/15 13:30	08/27/15 19:41	1
Percent Solids	**64.1**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.714**		0.323	0.331	0.515	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Bismuth-212	0.777	U	1.09	1.09	1.81	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Bismuth-214	**1.02**		0.322	0.339	0.273	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Lead-210	2.31	U	2.01	2.03	3.49	pCi/g	08/27/15 10:12	09/17/15 08:13	1

Client Sample ID: RXR13B/-11.2--11.7/13082015

Date Collected: 08/13/15 13:30
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-1

Matrix: Solid
Percent Solids: 64.1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**0.983**		0.265	0.294	0.263	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Lead-214	**0.899**		0.251	0.268	0.245	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Potassium-40	**8.77**		2.32	2.48	2.34	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Protactinium-231	0.176	U	0.263	0.263	3.49	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Radium-226	**1.02**		0.322	0.339	0.273	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Radium-228	**0.714**		0.323	0.331	0.515	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Thallium-208	**0.434**		0.121	0.130	0.102	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Thorium-234	0.469	U	1.76	1.76	3.15	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Uranium-235	0.000	U	0.247	0.247	0.842	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Uranium-238	0.469	U	1.76	1.76	3.15	pCi/g	08/27/15 10:12	09/17/15 08:13	1
Protactinium-234m	4.55	U	11.3	11.3	20.0	pCi/g	08/27/15 10:12	09/17/15 08:13	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.784**		0.183	0.194	0.0713	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.827**		0.186	0.199	0.0477	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.810**		0.184	0.196	0.0542	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*90.7*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.00**		0.206	0.223	0.0711	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.0886**		0.0690	0.0694	0.0592	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.828**		0.187	0.199	0.0593	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*97.5*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.734**		0.456	0.474	0.515	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR13C/-11.7--12.2/13082015

Date Collected: 08/13/15 13:40
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-2

Matrix: Solid
Percent Solids: 60.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.5	U	6.5	0.86	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,1-Dichloroethene	6.5	U	6.5	0.37	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1

Client Sample ID: RXR13C/-11.7--12.2/13082015
Date Collected: 08/13/15 13:40
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-2
Matrix: Solid
Percent Solids: 60.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**54**		6.5	5.4	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Methylene Chloride	**1.0**	**J B**	6.5	0.73	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
trans-1,2-Dichloroethene	6.5	U	6.5	0.11	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Methyl tert-butyl ether	**7.4**		6.5	0.45	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,3-Dichlorobenzene	6.5	U	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,1-Dichloroethane	6.5	U	6.5	0.59	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
cis-1,2-Dichloroethene	6.5	U	6.5	0.56	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
2-Butanone (MEK)	**7.1**		6.5	2.9	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Chloroform	6.5	U	6.5	0.58	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,1,1-Trichloroethane	6.5	U	6.5	0.41	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Carbon tetrachloride	6.5	U	6.5	0.071	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Benzene	6.5	U	6.5	0.56	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,2-Dichloroethane	6.5	U	6.5	1.1	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Trichloroethene	6.5	U	6.5	0.75	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,4-Dioxane	130	U	130	18	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Toluene	**2.6**	**J**	6.5	0.25	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Tetrachloroethene	**0.42**	**J**	6.5	0.38	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Chlorobenzene	6.5	U	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Ethylbenzene	**0.42**	**J**	6.5	0.089	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
m-Xylene & p-Xylene	**1.4**	**J**	6.5	0.50	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
o-Xylene	**0.50**	**J**	6.5	0.069	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
Xylenes, Total	**1.9**	**J**	13	0.069	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
N-Propylbenzene	6.5	U	6.5	0.41	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,3,5-Trimethylbenzene	6.5	U	6.5	0.29	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
tert-Butylbenzene	6.5	U	6.5	0.33	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,2,4-Trimethylbenzene	**0.71**	**J**	6.5	0.16	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
sec-Butylbenzene	6.5	U	6.5	0.14	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,4-Dichlorobenzene	6.5	U	6.5	0.50	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
1,2-Dichlorobenzene	6.5	U	6.5	0.17	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1
n-Butylbenzene	6.5	U	6.5	0.34	ug/Kg	☼	08/14/15 12:35	08/27/15 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*35 - 145*	*08/14/15 12:35*	*08/27/15 02:23*	*1*
Toluene-d8 (Surr)	*110*		*40 - 175*	*08/14/15 12:35*	*08/27/15 02:23*	*1*
4-Bromofluorobenzene	*113*		*30 - 200*	*08/14/15 12:35*	*08/27/15 02:23*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*08/14/15 12:35*	*08/27/15 02:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	27000	U	27000	890	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
2-Methylphenol	27000	U	27000	1200	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
3 & 4 Methylphenol	27000	U	27000	730	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Naphthalene	27000	U	27000	690	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
2-Methylnaphthalene	**730**	**J**	27000	600	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
2-Chloronaphthalene	27000	U	27000	620	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Acenaphthylene	**2400**	**J**	27000	700	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Acenaphthene	**6000**	**J**	27000	660	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Dibenzofuran	**1300**	**J**	27000	830	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Fluorene	**6000**	**J**	27000	600	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Hexachlorobenzene	2700	U	2700	1100	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50

Client Sample ID: RXR13C/-11.7--12.2/13082015
Date Collected: 08/13/15 13:40
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-2
Matrix: Solid
Percent Solids: 60.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	22000	U	22000	3300	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Phenanthrene	**120000**		27000	730	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Anthracene	**28000**		27000	2600	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Fluoranthene	**180000**		27000	810	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Pyrene	**200000**		27000	1200	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Benzo[a]anthracene	**100000**		2700	2300	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Chrysene	**100000**		27000	740	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Benzo[b]fluoranthene	**84000**		2700	1100	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Benzo[k]fluoranthene	**36000**		2700	1200	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Benzo[a]pyrene	**84000**		2700	830	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Indeno[1,2,3-cd]pyrene	**46000**		2700	1800	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Dibenz(a,h)anthracene	**12000**		2700	1400	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50
Benzo[g,h,i]perylene	**49000**		27000	1600	ug/Kg	☼	08/26/15 08:36	09/04/15 02:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*X*	*28 - 92*	*08/26/15 08:36*	*09/04/15 02:54*	*50*
2-Fluorobiphenyl	*0*	*X*	*27 - 84*	*08/26/15 08:36*	*09/04/15 02:54*	*50*
Terphenyl-d14 (Surr)	*0*	*X*	*16 - 114*	*08/26/15 08:36*	*09/04/15 02:54*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*10 - 95*	*08/26/15 08:36*	*09/04/15 02:54*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*21 - 84*	*08/26/15 08:36*	*09/04/15 02:54*	*50*
Phenol-d5 (Surr)	*0*	*X*	*22 - 88*	*08/26/15 08:36*	*09/04/15 02:54*	*50*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.3	U	3.3	1.0	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
gamma-BHC (Lindane)	3.3	U	3.3	0.99	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
beta-BHC	3.3	U	3.3	1.1	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
delta-BHC	3.3	U	3.3	1.2	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Heptachlor	11	U	11	1.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Aldrin	11	U	11	1.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
gamma-Chlordane	11	U	11	2.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
alpha-Chlordane	11	U	11	1.8	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
4,4'-DDE	11	U	11	1.6	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Endosulfan I	11	U	11	1.5	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Dieldrin	3.3	U	3.3	1.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Endrin	11	U	11	1.4	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
4,4'-DDD	11	U	11	1.5	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Endosulfan II	11	U	11	1.7	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
4,4'-DDT	11	U	11	1.1	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Endosulfan sulfate	11	U	11	1.3	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Chlordane (technical)	110	U	110	49	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1
Mirex	11	U	11	2.1	ug/Kg	☼	08/26/15 08:20	08/26/15 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*55 - 139*	*08/26/15 08:20*	*08/26/15 15:38*	*1*
Tetrachloro-m-xylene	*87*		*55 - 139*	*08/26/15 08:20*	*08/26/15 15:38*	*1*
DCB Decachlorobiphenyl	*95*		*55 - 148*	*08/26/15 08:20*	*08/26/15 15:38*	*1*
DCB Decachlorobiphenyl	*93*		*55 - 148*	*08/26/15 08:20*	*08/26/15 15:38*	*1*

Client Sample Results

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: RXR13C/-11.7--12.2/13082015
Date Collected: 08/13/15 13:40
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-2
Matrix: Solid
Percent Solids: 60.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	28	U *	28	2.3	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1221	28	U	28	2.3	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1232	28	U	28	2.3	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1242	**90**		28	2.3	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1248	28	U	28	2.3	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1254	**94**	**p**	28	4.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1
PCB-1260	28	U *	28	4.1	ug/Kg	☼	08/25/15 10:45	09/22/15 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*30 - 130*	*08/25/15 10:45*	*09/22/15 15:40*	*1*
Tetrachloro-m-xylene	*42*		*30 - 130*	*08/25/15 10:45*	*09/22/15 15:40*	*1*
DCB Decachlorobiphenyl	*44*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 15:40*	*1*
DCB Decachlorobiphenyl	*45*		*45 - 125*	*08/25/15 10:45*	*09/22/15 15:40*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	28	U	28	19	ug/Kg	☼	08/26/15 11:22	09/02/15 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*520*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 19:45*	*1*
2,4-Dichlorophenylacetic acid	*466*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 19:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**21.8**		3.0	0.54	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Arsenic	**24.7**		4.6	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Barium	**64.3**		60.8	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Beryllium	**0.62**		0.61	0.52	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Cadmium	**4.5**		1.2	0.63	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Chromium	**39.8**		3.0	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Copper	**187**		7.6	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Manganese	**260**		4.6	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Nickel	**39.7**		12.2	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Lead	**233**		3.0	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Selenium	**3.4**	**J**	6.1	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4
Zinc	**244**		9.1	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:41	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.027	0.019	mg/Kg	☼	09/10/15 05:11	09/10/15 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.4	U	3.4	1.4	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	3.3	U	3.3	1.3	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**39.8**		2.0	2.0	mg/Kg			09/16/15 08:55	1
Cyanide, Total	0.18	U	0.18	0.029	mg/Kg	☼	08/27/15 13:30	08/27/15 19:42	1
Percent Solids	**60.4**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR13C/-11.7--12.2/13082015
Date Collected: 08/13/15 13:40
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-2
Matrix: Solid
Percent Solids: 60.4

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**1.01**		0.287	0.305	0.192	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Bismuth-212	0.815	U	0.791	0.795	1.25	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Bismuth-214	**1.01**		0.235	0.258	0.207	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Lead-210	**4.24**		2.58	2.63	3.14	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Lead-212	**1.23**		0.190	0.248	0.173	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Lead-214	**0.998**		0.187	0.214	0.163	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Potassium-40	**10.9**		1.72	2.05	0.934	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Protactinium-231	0.286	U	0.311	0.312	2.74	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Radium-226	**1.01**		0.235	0.258	0.207	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Radium-228	**1.01**		0.287	0.305	0.192	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Thallium-208	**0.410**		0.101	0.109	0.0925	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Thorium-234	1.19	U	0.836	0.845	3.15	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Uranium-235	0.118	U	0.218	0.219	0.619	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Uranium-238	1.19	U	0.836	0.845	3.15	pCi/g	08/27/15 10:12	09/17/15 08:15	1
Protactinium-234m	0.436	U	7.54	7.54	14.0	pCi/g	08/27/15 10:12	09/17/15 08:15	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.684**		0.171	0.181	0.0844	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.875**		0.191	0.205	0.0590	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.703**		0.172	0.181	0.0651	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*97.6*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.31**		0.243	0.267	0.115	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.0918**		0.0715	0.0719	0.0614	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**1.24**		0.235	0.257	0.102	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.3*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**2.02**		0.371	0.399	0.207	pCi/g		09/21/15 22:06	1

Client Sample ID: FB001_13082015

Date Collected: 08/13/15 14:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 18:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 18:31	1
Acetone	5.0	U	5.0	1.7	ug/L			08/27/15 18:31	1
Methylene Chloride	**0.50**	**J B**	1.0	0.23	ug/L			08/27/15 18:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 18:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 18:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 18:31	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 18:31	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 18:31	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 18:31	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 18:31	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 18:31	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 18:31	1
Toluene	**0.35**	**J**	1.0	0.22	ug/L			08/27/15 18:31	1
Tetrachloroethene	**0.30**	**J**	1.0	0.22	ug/L			08/27/15 18:31	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 18:31	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 18:31	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 18:31	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 18:31	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 18:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 18:31	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 18:31	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 18:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 18:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 18:31	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/27/15 18:31*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*08/27/15 18:31*	*1*
4-Bromofluorobenzene	*106*		*80 - 125*		*08/27/15 18:31*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*08/27/15 18:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	11	U	11	1.7	ug/L		08/14/15 18:48	09/02/15 12:24	1
2-Methylphenol	11	U	11	2.1	ug/L		08/14/15 18:48	09/02/15 12:24	1
3 & 4 Methylphenol	11	U	11	1.1	ug/L		08/14/15 18:48	09/02/15 12:24	1
Naphthalene	11	U	11	1.5	ug/L		08/14/15 18:48	09/02/15 12:24	1
2-Methylnaphthalene	11	U	11	1.3	ug/L		08/14/15 18:48	09/02/15 12:24	1
2-Chloronaphthalene	11	U	11	1.5	ug/L		08/14/15 18:48	09/02/15 12:24	1
Acenaphthylene	11	U	11	1.1	ug/L		08/14/15 18:48	09/02/15 12:24	1
Acenaphthene	11	U	11	1.1	ug/L		08/14/15 18:48	09/02/15 12:24	1
Dibenzofuran	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1

Client Sample ID: FB001_13082015
Date Collected: 08/13/15 14:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1
Hexachlorobenzene	11	U	11	1.1	ug/L		08/14/15 18:48	09/02/15 12:24	1
Pentachlorophenol	29	U	29	14	ug/L		08/14/15 18:48	09/02/15 12:24	1
Phenanthrene	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1
Anthracene	11	U	11	1.6	ug/L		08/14/15 18:48	09/02/15 12:24	1
Fluoranthene	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1
Pyrene	11	U	11	1.7	ug/L		08/14/15 18:48	09/02/15 12:24	1
Benzo[a]anthracene	11	U	11	1.5	ug/L		08/14/15 18:48	09/02/15 12:24	1
Chrysene	11	U	11	1.6	ug/L		08/14/15 18:48	09/02/15 12:24	1
Benzo[b]fluoranthene	11	U	11	2.3	ug/L		08/14/15 18:48	09/02/15 12:24	1
Benzo[k]fluoranthene	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1
Benzo[a]pyrene	11	U	11	0.99	ug/L		08/14/15 18:48	09/02/15 12:24	1
Indeno[1,2,3-cd]pyrene	11	U	11	1.0	ug/L		08/14/15 18:48	09/02/15 12:24	1
Dibenz(a,h)anthracene	11	U	11	1.4	ug/L		08/14/15 18:48	09/02/15 12:24	1
Benzo[g,h,i]perylene	11	U	11	1.5	ug/L		08/14/15 18:48	09/02/15 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*45 - 115*	*08/14/15 18:48*	*09/02/15 12:24*	*1*
Terphenyl-d14 (Surr)	*98*		*35 - 140*	*08/14/15 18:48*	*09/02/15 12:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.057	U	0.057	0.0018	ug/L		08/14/15 18:45	09/01/15 12:57	1
gamma-BHC (Lindane)	0.057	U	0.057	0.0011	ug/L		08/14/15 18:45	09/01/15 12:57	1
beta-BHC	0.057	U	0.057	0.013	ug/L		08/14/15 18:45	09/01/15 12:57	1
delta-BHC	0.057	U	0.057	0.0017	ug/L		08/14/15 18:45	09/01/15 12:57	1
Heptachlor	0.057	U	0.057	0.0015	ug/L		08/14/15 18:45	09/01/15 12:57	1
Aldrin	0.057	U	0.057	0.0011	ug/L		08/14/15 18:45	09/01/15 12:57	1
gamma-Chlordane	0.057	U	0.057	0.0013	ug/L		08/14/15 18:45	09/01/15 12:57	1
alpha-Chlordane	0.057	U	0.057	0.0011	ug/L		08/14/15 18:45	09/01/15 12:57	1
4,4'-DDE	0.057	U	0.057	0.0018	ug/L		08/14/15 18:45	09/01/15 12:57	1
Endosulfan I	0.057	U	0.057	0.00098	ug/L		08/14/15 18:45	09/01/15 12:57	1
Dieldrin	0.057	U	0.057	0.0018	ug/L		08/14/15 18:45	09/01/15 12:57	1
Endrin	0.057	U	0.057	0.0025	ug/L		08/14/15 18:45	09/01/15 12:57	1
4,4'-DDD	0.057	U	0.057	0.0015	ug/L		08/14/15 18:45	09/01/15 12:57	1
Endosulfan II	0.057	U	0.057	0.0018	ug/L		08/14/15 18:45	09/01/15 12:57	1
4,4'-DDT	0.057	U	0.057	0.0030	ug/L		08/14/15 18:45	09/01/15 12:57	1
Endosulfan sulfate	0.057	U	0.057	0.0019	ug/L		08/14/15 18:45	09/01/15 12:57	1
Chlordane (technical)	0.57	U	0.57	0.0047	ug/L		08/14/15 18:45	09/01/15 12:57	1
Mirex	0.11	U	0.11	0.11	ug/L		08/14/15 18:45	09/01/15 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*50 - 120*	*08/14/15 18:45*	*09/01/15 12:57*	*1*
Tetrachloro-m-xylene	*89*		*50 - 120*	*08/14/15 18:45*	*09/01/15 12:57*	*1*
DCB Decachlorobiphenyl	*77*		*45 - 115*	*08/14/15 18:45*	*09/01/15 12:57*	*1*
DCB Decachlorobiphenyl	*79*		*45 - 115*	*08/14/15 18:45*	*09/01/15 12:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.55	U	0.55	0.063	ug/L		08/14/15 18:47	08/25/15 10:49	1

Client Sample ID: FB001_13082015
Date Collected: 08/13/15 14:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-3
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.55	U	0.55	0.063	ug/L		08/14/15 18:47	08/25/15 10:49	1
PCB-1232	0.55	U	0.55	0.063	ug/L		08/14/15 18:47	08/25/15 10:49	1
PCB-1242	0.55	U	0.55	0.063	ug/L		08/14/15 18:47	08/25/15 10:49	1
PCB-1248	0.55	U	0.55	0.063	ug/L		08/14/15 18:47	08/25/15 10:49	1
PCB-1254	0.55	U	0.55	0.026	ug/L		08/14/15 18:47	08/25/15 10:49	1
PCB-1260	0.55	U	0.55	0.026	ug/L		08/14/15 18:47	08/25/15 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*55 - 120*	*08/14/15 18:47*	*08/25/15 10:49*	*1*
Tetrachloro-m-xylene	*69*		*55 - 120*	*08/14/15 18:47*	*08/25/15 10:49*	*1*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*08/14/15 18:47*	*08/25/15 10:49*	*1*
DCB Decachlorobiphenyl	*65*		*30 - 150*	*08/14/15 18:47*	*08/25/15 10:49*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.68	U	0.68	0.12	ug/L		08/18/15 11:10	08/19/15 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*109*		*44 - 150*	*08/18/15 11:10*	*08/19/15 13:27*	*1*
2,4-Dichlorophenylacetic acid	*95*		*44 - 150*	*08/18/15 11:10*	*08/19/15 13:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/19/15 10:02	08/19/15 17:07	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/19/15 10:02	08/19/15 17:07	1
Barium	200	U	200	5.5	ug/L		08/19/15 10:02	08/19/15 17:07	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/19/15 10:02	08/19/15 17:07	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/19/15 10:02	08/19/15 17:07	1
Chromium	10.0	U	10.0	4.5	ug/L		08/19/15 10:02	08/19/15 17:07	1
Copper	25.0	U	25.0	5.0	ug/L		08/19/15 10:02	08/19/15 17:07	1
Manganese	15.0	U	15.0	4.9	ug/L		08/19/15 10:02	08/19/15 17:07	1
Nickel	40.0	U	40.0	5.4	ug/L		08/19/15 10:02	08/19/15 17:07	1
Lead	10.0	U	10.0	4.2	ug/L		08/19/15 10:02	08/19/15 17:07	1
Selenium	20.0	U	20.0	6.8	ug/L		08/19/15 10:02	08/19/15 17:07	1
Zinc	30.0	U	30.0	5.9	ug/L		08/19/15 10:02	08/19/15 17:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/17/15 05:42	08/17/15 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U H	10.0	4.9	ug/L			08/15/15 11:00	1
Cr (III)	10.0	U	10.0	10.0	ug/L			08/19/15 13:10	1
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:45	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**92.6**		25.3	26.9	26.1	pCi/L	08/19/15 17:11	09/09/15 10:39	1

Client Sample ID: FB001_13082015
Date Collected: 08/13/15 14:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-3
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	36.0	U	128	128	212	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Uranium-238	-7.20	U	40.4	40.4	259	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Radium-228	6.71	U	19.4	19.4	42.4	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Bismuth-214	**92.6**		25.3	26.9	26.1	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Actinium-228	6.71	U	19.4	19.4	42.4	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Bismuth-212	22.5	U	71.3	71.4	128	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Lead-212	8.19	U	12.9	13.0	20.1	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Lead-214	**67.3**		22.9	24.1	26.5	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Potassium-40	-31.6	U	173	173	217	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Protactinium-234m	540	U	720	722	1250	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Protactinium-231	18.3	U	151	151	269	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Thallium-208	-0.0415	U	0.104	0.105	13.2	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Thorium-234	-7.20	U	40.4	40.4	259	pCi/L	08/19/15 17:11	09/09/15 10:39	1
Uranium-235	-11.1	U	182	182	76.2	pCi/L	08/19/15 17:11	09/09/15 10:39	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.120	U	0.119	0.120	0.175	pCi/L	08/20/15 08:50	08/24/15 14:53	1
Thorium-230	**0.186**		0.121	0.122	0.0928	pCi/L	08/20/15 08:50	08/24/15 14:53	1
Thorium-232	-0.00219	U	0.00646	0.00646	0.0810	pCi/L	08/20/15 08:50	08/24/15 14:53	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.7*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:53*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.0189	U	0.0568	0.0569	0.127	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-235/236	0.000	U	0.0118	0.0118	0.0707	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-238	0.0284	U	0.0551	0.0552	0.106	pCi/L	08/20/15 08:50	08/24/15 14:57	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*77.1*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**99.31**	**G**	31.882	33.166	42.4	pCi/L		09/21/15 22:06	1

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: TB
Date Collected: 08/13/15 00:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 19:03	1
Acetone	**2.3**	**J**	5.0	1.7	ug/L			08/27/15 19:03	1
Methylene Chloride	**0.39**	**J B**	1.0	0.23	ug/L			08/27/15 19:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 19:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 19:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 19:03	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 19:03	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 19:03	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 19:03	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 19:03	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 19:03	1
Toluene	1.0	U	1.0	0.22	ug/L			08/27/15 19:03	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 19:03	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 19:03	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 19:03	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 19:03	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 19:03	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 19:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 19:03	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 19:03	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 19:03	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/27/15 19:03*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*08/27/15 19:03*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/27/15 19:03*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*08/27/15 19:03*	*1*

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(35-145)	(40-175)	(30-200)	(50-150)
200-29279-1	RXR13B/-11.2--11.7/13082015	91	144	138	109
200-29279-1 - RE	RXR13B/-11.2--11.7/13082015	79	151	137	106
200-29279-2	RXR13C/-11.7--12.2/13082015	96	110	113	107
LCS 200-93214/5	Lab Control Sample	107	108	107	109
LCS 200-93681/4	Lab Control Sample	97	100	96	98
MB 200-93214/7	Method Blank	102	105	107	106
MB 200-93681/6	Method Blank	97	101	103	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
200-29279-3	FB001_13082015	111	108	106	112
200-29279-4	TB	110	107	105	111
LCS 200-93257/4	Lab Control Sample	104	108	100	109
MB 200-93257/8	Method Blank	108	110	105	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	TBP	2FP	PHL
Lab Sample ID	Client Sample ID	(28-92)	(27-84)	(16-114)	(10-95)	(21-84)	(22-88)
200-29279-1	RXR13B/-11.2--11.7/13082015	61	61	74	41	50	55
200-29279-2 - DL	RXR13C/-11.7--12.2/13082015	0 X	0 X	0 X	0 X	0 X	0 X
LCS 460-318882/3-A	Lab Control Sample	77	80	77	85	70	73
MB 460-318882/1-A	Method Blank	79	74	81	75	72	71

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP	TPH
Lab Sample ID	Client Sample ID	(45-115)	(35-140)
200-29279-3	FB001_13082015	98	98
LCS 200-92775/2-A	Lab Control Sample	100	99
MB 200-92775/1-A	Method Blank	88	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(55-139)	(55-139)	(55-148)	(55-148)
200-29279-1	RXR13B/-11.2--11.7/13082015	115	104	107	106
200-29279-2	RXR13C/-11.7--12.2/13082015	102	87	95	93
LCS 460-318825/2-A	Lab Control Sample	122	120	119	120
MB 460-318825/1-A	Method Blank	99	94	97	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(45-115)	(45-115)
200-29279-3	FB001_13082015	86	89	77	79
LCS 200-92773/2-A	Lab Control Sample	85	87	93	94
MB 200-92773/1-A	Method Blank	95	97	96	98

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-29279-1	RXR13B/-11.2--11.7/13082015	56	50	62	61
200-29279-2	RXR13C/-11.7--12.2/13082015	46	42	44 X	45
LCS 200-93141/2-B	Lab Control Sample	42	42	39 X	36 X
MB 200-93141/1-B	Method Blank	46	43	34 X	29 X

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-29279-3	FB001_13082015	69	69	67	65
LCS 200-92774/2-A	Lab Control Sample	70	69	69	69
MB 200-92774/1-A	Method Blank	73	73	74	73

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(83-150)	(83-150)
200-29279-1	RXR13B/-11.2--11.7/13082015	365 X	386 X
200-29279-2	RXR13C/-11.7--12.2/13082015	520 X	466 X
LCS 460-318962/2-A	Lab Control Sample	93	85
MB 460-318962/1-A	Method Blank	99	86

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(44-150)	(44-150)
200-29279-3	FB001_13082015	109	95
LCS 460-317297/2-A	Lab Control Sample	111	112
LCSD 460-317297/3-A	Lab Control Sample Dup	99	100
MB 460-317297/1-A	Method Blank	99	93

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Tracer/Carrier Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29279-1	RXR13B/-11.2--11.7/13082015	90.7
200-29279-2	RXR13C/-11.7--12.2/13082015	97.6
LCS 160-211086/2-A	Lab Control Sample	92.1
MB 160-211086/1-A	Method Blank	100

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29279-3	FB001_13082015	78.7
LCS 160-206670/2-A	Lab Control Sample	93.7
MB 160-206670/1-A	Method Blank	88.5

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29279-1	RXR13B/-11.2--11.7/13082015	97.5
200-29279-2	RXR13C/-11.7--12.2/13082015	89.3
LCS 160-208695/2-A	Lab Control Sample	76.2
MB 160-208695/1-A	Method Blank	86.9

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29279-3	FB001_13082015	77.1
LCS 160-206674/2-A	Lab Control Sample	78.5
MB 160-206674/1-A	Method Blank	83.1

Tracer/Carrier Legend

U-232 = Uranium-232

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 200-93214/7
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			08/26/15 17:38	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			08/26/15 17:38	1
Acetone	5.0	U	5.0	4.1	ug/Kg			08/26/15 17:38	1
Methylene Chloride	1.54	J	5.0	0.56	ug/Kg			08/26/15 17:38	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			08/26/15 17:38	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			08/26/15 17:38	1
1,3-Dichlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			08/26/15 17:38	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			08/26/15 17:38	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			08/26/15 17:38	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			08/26/15 17:38	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			08/26/15 17:38	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			08/26/15 17:38	1
Benzene	5.0	U	5.0	0.43	ug/Kg			08/26/15 17:38	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			08/26/15 17:38	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			08/26/15 17:38	1
1,4-Dioxane	100	U	100	14	ug/Kg			08/26/15 17:38	1
Toluene	5.0	U	5.0	0.19	ug/Kg			08/26/15 17:38	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			08/26/15 17:38	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			08/26/15 17:38	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			08/26/15 17:38	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			08/26/15 17:38	1
Xylenes, Total	10	U	10	0.053	ug/Kg			08/26/15 17:38	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			08/26/15 17:38	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			08/26/15 17:38	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			08/26/15 17:38	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			08/26/15 17:38	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			08/26/15 17:38	1
1,2-Dichlorobenzene	5.0	U	5.0	0.13	ug/Kg			08/26/15 17:38	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			08/26/15 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*35 - 145*		*08/26/15 17:38*	*1*
Toluene-d8 (Surr)	*105*		*40 - 175*		*08/26/15 17:38*	*1*
4-Bromofluorobenzene	*107*		*30 - 200*		*08/26/15 17:38*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*		*08/26/15 17:38*	*1*

Lab Sample ID: LCS 200-93214/5
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	51.6		ug/Kg		103	75 - 120
1,1-Dichloroethene	50.0	41.2		ug/Kg		82	80 - 120
Acetone	250	235		ug/Kg		94	70 - 120
Methylene Chloride	50.0	45.5		ug/Kg		91	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93214/5
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	75 - 125
Methyl tert-butyl ether	50.0	46.3		ug/Kg		93	70 - 120
1,3-Dichlorobenzene	50.0	53.1		ug/Kg		106	80 - 125
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 120
cis-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	75 - 120
2-Butanone (MEK)	250	258		ug/Kg		103	60 - 130
Chloroform	50.0	49.8		ug/Kg		100	80 - 120
1,1,1-Trichloroethane	50.0	49.4		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	50.6		ug/Kg		101	70 - 120
Benzene	50.0	49.7		ug/Kg		99	75 - 125
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 120
Trichloroethene	50.0	52.1		ug/Kg		104	75 - 120
1,4-Dioxane	1000	1120		ug/Kg		112	75 - 120
Toluene	50.0	51.1		ug/Kg		102	80 - 125
Tetrachloroethene	50.0	52.1		ug/Kg		104	80 - 125
Chlorobenzene	50.0	52.1		ug/Kg		104	80 - 125
Ethylbenzene	50.0	51.9		ug/Kg		104	80 - 125
m-Xylene & p-Xylene	50.0	52.7		ug/Kg		105	80 - 125
o-Xylene	50.0	53.1		ug/Kg		106	80 - 125
N-Propylbenzene	50.0	52.3		ug/Kg		105	80 - 125
1,3,5-Trimethylbenzene	50.0	51.8		ug/Kg		104	80 - 125
tert-Butylbenzene	50.0	52.1		ug/Kg		104	75 - 120
1,2,4-Trimethylbenzene	50.0	51.3		ug/Kg		103	80 - 125
sec-Butylbenzene	50.0	52.5		ug/Kg		105	80 - 125
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	80 - 120
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	80 - 125
n-Butylbenzene	50.0	52.3		ug/Kg		105	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*35 - 145*
Toluene-d8 (Surr)	*108*		*40 - 175*
4-Bromofluorobenzene	*107*		*30 - 200*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: MB 200-93257/8
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
Acetone	5.0	U	5.0	1.7	ug/L			08/27/15 14:49	1
Methylene Chloride	0.408	J	1.0	0.23	ug/L			08/27/15 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93257/8
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 14:49	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 14:49	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 14:49	1
Toluene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 14:49	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 14:49	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 14:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/27/15 14:49*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*08/27/15 14:49*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/27/15 14:49*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*08/27/15 14:49*	*1*

Lab Sample ID: LCS 200-93257/4
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	24.8	25.7		ug/L		104	80 - 130
1,1-Dichloroethene	24.8	24.0		ug/L		97	80 - 120
Acetone	124	153		ug/L		123	15 - 200
Methylene Chloride	24.8	23.6		ug/L		95	80 - 120
trans-1,2-Dichloroethene	24.8	27.2		ug/L		110	80 - 125
Methyl tert-butyl ether	24.8	27.1		ug/L		109	80 - 120
1,3-Dichlorobenzene	24.8	26.9		ug/L		108	80 - 125
1,1-Dichloroethane	24.8	27.2		ug/L		110	80 - 120
cis-1,2-Dichloroethene	24.8	27.3		ug/L		110	80 - 125
2-Butanone (MEK)	124	149		ug/L		120	60 - 170
Chloroform	24.8	27.1		ug/L		109	75 - 120
1,1,1-Trichloroethane	24.8	27.0		ug/L		109	75 - 120
Carbon tetrachloride	24.8	28.4		ug/L		115	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93257/4
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	24.8	27.2		ug/L		110	80 - 125
1,2-Dichloroethane	24.8	26.8		ug/L		108	70 - 120
Trichloroethene	24.8	27.8		ug/L		112	75 - 120
1,4-Dioxane	496	572		ug/L		115	75 - 140
Toluene	24.8	27.4		ug/L		111	80 - 120
Tetrachloroethene	24.8	27.5		ug/L		111	80 - 120
Chlorobenzene	24.8	26.8		ug/L		108	80 - 120
Ethylbenzene	24.8	27.0		ug/L		109	80 - 125
m-Xylene & p-Xylene	24.8	27.3		ug/L		110	80 - 125
o-Xylene	24.8	27.5		ug/L		111	80 - 120
N-Propylbenzene	24.8	27.3		ug/L		110	80 - 120
1,3,5-Trimethylbenzene	24.8	27.1		ug/L		109	80 - 120
tert-Butylbenzene	24.8	27.1		ug/L		109	75 - 120
1,2,4-Trimethylbenzene	24.8	26.6		ug/L		107	80 - 120
sec-Butylbenzene	24.8	27.0		ug/L		109	80 - 120
1,4-Dichlorobenzene	24.8	26.1		ug/L		105	80 - 125
1,2-Dichlorobenzene	24.8	26.5		ug/L		107	80 - 125
n-Butylbenzene	24.8	26.8		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: MB 200-93681/6
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			09/08/15 11:52	1
Acetone	5.0	U	5.0	4.1	ug/Kg			09/08/15 11:52	1
Methylene Chloride	5.0	U	5.0	0.56	ug/Kg			09/08/15 11:52	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			09/08/15 11:52	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			09/08/15 11:52	1
1,3-Dichlorobenzene	0.177	J	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			09/08/15 11:52	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			09/08/15 11:52	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			09/08/15 11:52	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			09/08/15 11:52	1
Benzene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			09/08/15 11:52	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			09/08/15 11:52	1
1,4-Dioxane	100	U	100	14	ug/Kg			09/08/15 11:52	1
Toluene	5.0	U	5.0	0.19	ug/Kg			09/08/15 11:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93681/6
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			09/08/15 11:52	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			09/08/15 11:52	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			09/08/15 11:52	1
Xylenes, Total	10	U	10	0.053	ug/Kg			09/08/15 11:52	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			09/08/15 11:52	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			09/08/15 11:52	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			09/08/15 11:52	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
1,2-Dichlorobenzene	0.206	J	5.0	0.13	ug/Kg			09/08/15 11:52	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			09/08/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*		*09/08/15 11:52*	*1*
Toluene-d8 (Surr)	*101*		*40 - 175*		*09/08/15 11:52*	*1*
4-Bromofluorobenzene	*103*		*30 - 200*		*09/08/15 11:52*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*09/08/15 11:52*	*1*

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	49.6		ug/Kg		99	75 - 120
1,1-Dichloroethene	50.0	50.6		ug/Kg		101	80 - 120
Acetone	250	185		ug/Kg		74	70 - 120
Methylene Chloride	50.0	46.4		ug/Kg		93	75 - 120
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	75 - 125
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	70 - 120
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 125
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 120
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	75 - 120
2-Butanone (MEK)	250	218		ug/Kg		87	60 - 130
Chloroform	50.0	48.8		ug/Kg		98	80 - 120
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	51.6		ug/Kg		103	70 - 120
Benzene	50.0	50.0		ug/Kg		100	75 - 125
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 120
Trichloroethene	50.0	52.0		ug/Kg		104	75 - 120
1,4-Dioxane	1000	1070		ug/Kg		107	75 - 120
Toluene	50.0	48.6		ug/Kg		97	80 - 125
Tetrachloroethene	50.0	49.6		ug/Kg		99	80 - 125
Chlorobenzene	50.0	48.6		ug/Kg		97	80 - 125
Ethylbenzene	50.0	50.1		ug/Kg		100	80 - 125
m-Xylene & p-Xylene	50.0	50.4		ug/Kg		101	80 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.0	49.5		ug/Kg		99	80 - 125
N-Propylbenzene	50.0	49.0		ug/Kg		98	80 - 125
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	80 - 125
tert-Butylbenzene	50.0	47.8		ug/Kg		96	75 - 120
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	80 - 125
sec-Butylbenzene	50.0	49.8		ug/Kg		100	80 - 125
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	80 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/Kg		92	80 - 125
n-Butylbenzene	50.0	53.0		ug/Kg		106	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*
Toluene-d8 (Surr)	*100*		*40 - 175*
4-Bromofluorobenzene	*96*		*30 - 200*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-318882/1-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Methylphenol	330	U	330	14	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Naphthalene	330	U	330	8.4	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Acenaphthene	330	U	330	8.0	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Dibenzofuran	330	U	330	10	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Fluorene	330	U	330	7.2	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Anthracene	330	U	330	31	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Pyrene	330	U	330	15	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Chrysene	330	U	330	9.0	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/26/15 08:36	08/27/15 14:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-318882/1-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318882

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		28 - 92	08/26/15 08:36	08/27/15 14:34	1
2-Fluorobiphenyl	74		27 - 84	08/26/15 08:36	08/27/15 14:34	1
Terphenyl-d14 (Surr)	81		16 - 114	08/26/15 08:36	08/27/15 14:34	1
2,4,6-Tribromophenol (Surr)	75		10 - 95	08/26/15 08:36	08/27/15 14:34	1
2-Fluorophenol (Surr)	72		21 - 84	08/26/15 08:36	08/27/15 14:34	1
Phenol-d5 (Surr)	71		22 - 88	08/26/15 08:36	08/27/15 14:34	1

Lab Sample ID: LCS 460-318882/3-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	2260		ug/Kg		68	55 - 99
2-Methylphenol	3330	2340		ug/Kg		70	56 - 99
3 & 4 Methylphenol	3330	2380		ug/Kg		71	51 - 105
Naphthalene	3330	2470		ug/Kg		74	64 - 99
2-Methylnaphthalene	3330	2550		ug/Kg		77	64 - 102
2-Chloronaphthalene	3330	2500		ug/Kg		75	63 - 102
Acenaphthylene	3330	2570		ug/Kg		77	63 - 102
Acenaphthene	3330	2630		ug/Kg		79	59 - 102
Dibenzofuran	3330	2600		ug/Kg		78	62 - 102
Fluorene	3330	2660		ug/Kg		80	65 - 108
Hexachlorobenzene	3330	2730		ug/Kg		82	65 - 117
Pentachlorophenol	6670	4880		ug/Kg		73	47 - 115
Phenanthrene	3330	2650		ug/Kg		80	66 - 105
Anthracene	3330	2640		ug/Kg		79	66 - 105
Fluoranthene	3330	2820		ug/Kg		85	59 - 109
Pyrene	3330	2440		ug/Kg		73	55 - 126
Benzo[a]anthracene	3330	2710		ug/Kg		81	65 - 106
Chrysene	3330	2610		ug/Kg		78	64 - 105
Benzo[b]fluoranthene	3330	2770		ug/Kg		83	67 - 116
Benzo[k]fluoranthene	3330	2430		ug/Kg		73	65 - 114
Benzo[a]pyrene	3330	2690		ug/Kg		81	68 - 111
Indeno[1,2,3-cd]pyrene	3330	2820		ug/Kg		85	50 - 134
Dibenz(a,h)anthracene	3330	2810		ug/Kg		84	54 - 126
Benzo[g,h,i]perylene	3330	2670		ug/Kg		80	49 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	77		28 - 92
2-Fluorobiphenyl	80		27 - 84
Terphenyl-d14 (Surr)	77		16 - 114
2,4,6-Tribromophenol (Surr)	85		10 - 95
2-Fluorophenol (Surr)	70		21 - 84
Phenol-d5 (Surr)	73		22 - 88

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-92775/1-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	1.5	ug/L		08/14/15 18:48	09/02/15 11:42	1
2-Methylphenol	10	U	10	1.8	ug/L		08/14/15 18:48	09/02/15 11:42	1
3 & 4 Methylphenol	10	U	10	1.0	ug/L		08/14/15 18:48	09/02/15 11:42	1
Naphthalene	10	U	10	1.3	ug/L		08/14/15 18:48	09/02/15 11:42	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/14/15 18:48	09/02/15 11:42	1
2-Chloronaphthalene	10	U	10	1.3	ug/L		08/14/15 18:48	09/02/15 11:42	1
Acenaphthylene	10	U	10	0.92	ug/L		08/14/15 18:48	09/02/15 11:42	1
Acenaphthene	10	U	10	0.92	ug/L		08/14/15 18:48	09/02/15 11:42	1
Dibenzofuran	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Fluorene	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Hexachlorobenzene	10	U	10	1.0	ug/L		08/14/15 18:48	09/02/15 11:42	1
Pentachlorophenol	25	U	25	12	ug/L		08/14/15 18:48	09/02/15 11:42	1
Phenanthrene	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Anthracene	10	U	10	1.4	ug/L		08/14/15 18:48	09/02/15 11:42	1
Fluoranthene	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Pyrene	10	U	10	1.5	ug/L		08/14/15 18:48	09/02/15 11:42	1
Benzo[a]anthracene	10	U	10	1.3	ug/L		08/14/15 18:48	09/02/15 11:42	1
Chrysene	10	U	10	1.4	ug/L		08/14/15 18:48	09/02/15 11:42	1
Benzo[b]fluoranthene	10	U	10	2.0	ug/L		08/14/15 18:48	09/02/15 11:42	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Benzo[a]pyrene	10	U	10	0.87	ug/L		08/14/15 18:48	09/02/15 11:42	1
Indeno[1,2,3-cd]pyrene	10	U	10	0.89	ug/L		08/14/15 18:48	09/02/15 11:42	1
Dibenz(a,h)anthracene	10	U	10	1.2	ug/L		08/14/15 18:48	09/02/15 11:42	1
Benzo[g,h,i]perylene	10	U	10	1.3	ug/L		08/14/15 18:48	09/02/15 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*45 - 115*	*08/14/15 18:48*	*09/02/15 11:42*	*1*
Terphenyl-d14 (Surr)	*97*		*35 - 140*	*08/14/15 18:48*	*09/02/15 11:42*	*1*

Lab Sample ID: LCS 200-92775/2-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	50.0	19.3		ug/L		39	20 - 70
2-Methylphenol	50.0	36.9		ug/L		74	55 - 110
3 & 4 Methylphenol	50.0	35.5		ug/L		71	50 - 100
Naphthalene	50.0	43.0		ug/L		86	60 - 115
2-Methylnaphthalene	50.0	41.4		ug/L		83	60 - 120
2-Chloronaphthalene	50.0	44.9		ug/L		90	55 - 115
Acenaphthylene	50.0	45.3		ug/L		91	60 - 115
Acenaphthene	50.0	44.7		ug/L		89	60 - 115
Dibenzofuran	50.0	46.3		ug/L		93	60 - 115
Fluorene	50.0	46.9		ug/L		94	65 - 120
Hexachlorobenzene	50.0	40.5		ug/L		81	60 - 120
Pentachlorophenol	100	75.8		ug/L		76	25 - 130
Phenanthrene	50.0	46.1		ug/L		92	60 - 115
Anthracene	50.0	45.9		ug/L		92	60 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 200-92775/2-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	50.0	44.0		ug/L		88	55 - 125
Pyrene	50.0	44.6		ug/L		89	50 - 135
Benzo[a]anthracene	50.0	43.2		ug/L		86	60 - 120
Chrysene	50.0	45.3		ug/L		91	65 - 120
Benzo[b]fluoranthene	50.0	39.9		ug/L		80	35 - 150
Benzo[k]fluoranthene	50.0	47.2		ug/L		94	60 - 130
Benzo[a]pyrene	50.0	43.0		ug/L		86	50 - 130
Indeno[1,2,3-cd]pyrene	50.0	41.7		ug/L		83	30 - 140
Dibenz(a,h)anthracene	50.0	40.0		ug/L		80	30 - 145
Benzo[g,h,i]perylene	50.0	43.5		ug/L		87	35 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*45 - 115*
Terphenyl-d14 (Surr)	*99*		*35 - 140*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-318825/1-A
Matrix: Solid
Analysis Batch: 318875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.0	U	2.0	0.61	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
gamma-BHC (Lindane)	2.0	U	2.0	0.60	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
beta-BHC	2.0	U	2.0	0.65	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
delta-BHC	2.0	U	2.0	0.73	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Heptachlor	6.7	U	6.7	0.86	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Aldrin	6.7	U	6.7	0.81	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
gamma-Chlordane	6.7	U	6.7	1.5	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
alpha-Chlordane	6.7	U	6.7	1.1	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
4,4'-DDE	6.7	U	6.7	0.97	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Endosulfan I	6.7	U	6.7	0.93	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Dieldrin	2.0	U	2.0	0.87	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Endrin	6.7	U	6.7	0.85	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
4,4'-DDD	6.7	U	6.7	0.88	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Endosulfan II	6.7	U	6.7	1.1	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
4,4'-DDT	6.7	U	6.7	0.69	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Endosulfan sulfate	6.7	U	6.7	0.78	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Chlordane (technical)	67	U	67	30	ug/Kg		08/26/15 02:29	08/26/15 10:16	1
Mirex	6.7	U	6.7	1.3	ug/Kg		08/26/15 02:29	08/26/15 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*55 - 139*	*08/26/15 02:29*	*08/26/15 10:16*	*1*
Tetrachloro-m-xylene	*94*		*55 - 139*	*08/26/15 02:29*	*08/26/15 10:16*	*1*
DCB Decachlorobiphenyl	*97*		*55 - 148*	*08/26/15 02:29*	*08/26/15 10:16*	*1*
DCB Decachlorobiphenyl	*97*		*55 - 148*	*08/26/15 02:29*	*08/26/15 10:16*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-318825/2-A
Matrix: Solid
Analysis Batch: 318875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	133	149		ug/Kg		112	61 - 137
alpha-BHC	133	148		ug/Kg		111	61 - 137
gamma-BHC (Lindane)	133	151		ug/Kg		113	61 - 138
gamma-BHC (Lindane)	133	150		ug/Kg		112	61 - 138
beta-BHC	133	144		ug/Kg		108	59 - 136
beta-BHC	133	141		ug/Kg		106	59 - 136
delta-BHC	133	146		ug/Kg		109	60 - 139
delta-BHC	133	145		ug/Kg		109	60 - 139
Heptachlor	133	151		ug/Kg		113	61 - 135
Heptachlor	133	150		ug/Kg		113	61 - 135
Aldrin	133	146		ug/Kg		109	61 - 133
Aldrin	133	151		ug/Kg		113	61 - 133
gamma-Chlordane	133	151		ug/Kg		113	60 - 131
gamma-Chlordane	133	148		ug/Kg		111	60 - 131
alpha-Chlordane	133	152		ug/Kg		114	57 - 136
alpha-Chlordane	133	146		ug/Kg		110	57 - 136
4,4'-DDE	133	149		ug/Kg		112	61 - 135
4,4'-DDE	133	147		ug/Kg		110	61 - 135
Endosulfan I	133	149		ug/Kg		112	60 - 135
Endosulfan I	133	146		ug/Kg		110	60 - 135
Dieldrin	133	153		ug/Kg		115	61 - 137
Dieldrin	133	152		ug/Kg		114	61 - 137
Endrin	133	154		ug/Kg		115	59 - 133
Endrin	133	158		ug/Kg		118	59 - 133
4,4'-DDD	133	146		ug/Kg		110	61 - 140
4,4'-DDD	133	150		ug/Kg		112	61 - 140
Endosulfan II	133	145		ug/Kg		109	61 - 130
Endosulfan II	133	145		ug/Kg		109	61 - 130
4,4'-DDT	133	144		ug/Kg		108	59 - 133
4,4'-DDT	133	146		ug/Kg		110	59 - 133
Endosulfan sulfate	133	144		ug/Kg		108	60 - 129
Endosulfan sulfate	133	141		ug/Kg		106	60 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*122*		*55 - 139*
Tetrachloro-m-xylene	*120*		*55 - 139*
DCB Decachlorobiphenyl	*119*		*55 - 148*
DCB Decachlorobiphenyl	*120*		*55 - 148*

Lab Sample ID: MB 200-92773/1-A
Matrix: Water
Analysis Batch: 93444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.050	U	0.050	0.0016	ug/L		08/14/15 18:45	09/01/15 12:06	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0010	ug/L		08/14/15 18:45	09/01/15 12:06	1
beta-BHC	0.050	U	0.050	0.011	ug/L		08/14/15 18:45	09/01/15 12:06	1
delta-BHC	0.050	U	0.050	0.0015	ug/L		08/14/15 18:45	09/01/15 12:06	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 200-92773/1-A
Matrix: Water
Analysis Batch: 93444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.050	U	0.050	0.0013	ug/L		08/14/15 18:45	09/01/15 12:06	1
Aldrin	0.050	U	0.050	0.00092	ug/L		08/14/15 18:45	09/01/15 12:06	1
gamma-Chlordane	0.050	U	0.050	0.0011	ug/L		08/14/15 18:45	09/01/15 12:06	1
alpha-Chlordane	0.050	U	0.050	0.0010	ug/L		08/14/15 18:45	09/01/15 12:06	1
4,4'-DDE	0.050	U	0.050	0.0016	ug/L		08/14/15 18:45	09/01/15 12:06	1
Endosulfan I	0.050	U	0.050	0.00086	ug/L		08/14/15 18:45	09/01/15 12:06	1
Dieldrin	0.050	U	0.050	0.0016	ug/L		08/14/15 18:45	09/01/15 12:06	1
Endrin	0.050	U	0.050	0.0022	ug/L		08/14/15 18:45	09/01/15 12:06	1
4,4'-DDD	0.050	U	0.050	0.0013	ug/L		08/14/15 18:45	09/01/15 12:06	1
Endosulfan II	0.050	U	0.050	0.0016	ug/L		08/14/15 18:45	09/01/15 12:06	1
4,4'-DDT	0.050	U	0.050	0.0026	ug/L		08/14/15 18:45	09/01/15 12:06	1
Endosulfan sulfate	0.050	U	0.050	0.0017	ug/L		08/14/15 18:45	09/01/15 12:06	1
Chlordane (technical)	0.50	U	0.50	0.0041	ug/L		08/14/15 18:45	09/01/15 12:06	1
Mirex	0.10	U	0.10	0.10	ug/L		08/14/15 18:45	09/01/15 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*50 - 120*	*08/14/15 18:45*	*09/01/15 12:06*	*1*
Tetrachloro-m-xylene	*97*		*50 - 120*	*08/14/15 18:45*	*09/01/15 12:06*	*1*
DCB Decachlorobiphenyl	*96*		*45 - 115*	*08/14/15 18:45*	*09/01/15 12:06*	*1*
DCB Decachlorobiphenyl	*98*		*45 - 115*	*08/14/15 18:45*	*09/01/15 12:06*	*1*

Lab Sample ID: LCS 200-92773/2-A
Matrix: Water
Analysis Batch: 93444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.200	0.179		ug/L		89	80 - 110
gamma-BHC (Lindane)	0.200	0.172		ug/L		86	85 - 115
beta-BHC	0.200	0.179		ug/L		89	70 - 135
delta-BHC	0.200	0.176		ug/L		88	85 - 115
Heptachlor	0.200	0.161		ug/L		80	70 - 110
Aldrin	0.200	0.161		ug/L		80	55 - 115
gamma-Chlordane	0.200	0.173		ug/L		87	80 - 115
alpha-Chlordane	0.200	0.172		ug/L		86	75 - 120
4,4'-DDE	0.200	0.171		ug/L		86	80 - 110
Endosulfan I	0.200	0.125		ug/L		62	60 - 125
Dieldrin	0.200	0.167		ug/L		84	50 - 140
Endrin	0.200	0.185		ug/L		93	40 - 150
4,4'-DDD	0.200	0.183		ug/L		91	80 - 115
Endosulfan II	0.200	0.141		ug/L		70	55 - 125
4,4'-DDT	0.200	0.181		ug/L		91	80 - 120
Endosulfan sulfate	0.200	0.169		ug/L		85	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*50 - 120*
Tetrachloro-m-xylene	*87*		*50 - 120*
DCB Decachlorobiphenyl	*93*		*45 - 115*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 200-92773/2-A
Matrix: Water
Analysis Batch: 93444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92773

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*45 - 115*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-92774/1-A
Matrix: Water
Analysis Batch: 93129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.057	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1221	0.50	U	0.50	0.057	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1232	0.50	U	0.50	0.057	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1242	0.50	U	0.50	0.057	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1248	0.50	U	0.50	0.057	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1254	0.50	U	0.50	0.024	ug/L		08/14/15 18:47	08/25/15 10:16	1
PCB-1260	0.50	U	0.50	0.024	ug/L		08/14/15 18:47	08/25/15 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*55 - 120*	*08/14/15 18:47*	*08/25/15 10:16*	*1*
Tetrachloro-m-xylene	*73*		*55 - 120*	*08/14/15 18:47*	*08/25/15 10:16*	*1*
DCB Decachlorobiphenyl	*74*		*30 - 150*	*08/14/15 18:47*	*08/25/15 10:16*	*1*
DCB Decachlorobiphenyl	*73*		*30 - 150*	*08/14/15 18:47*	*08/25/15 10:16*	*1*

Lab Sample ID: LCS 200-92774/2-A
Matrix: Water
Analysis Batch: 93129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	3.74		ug/L		75	55 - 120
PCB-1260	5.00	3.57		ug/L		71	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*55 - 120*
Tetrachloro-m-xylene	*69*		*55 - 120*
DCB Decachlorobiphenyl	*69*		*30 - 150*
DCB Decachlorobiphenyl	*69*		*30 - 150*

Lab Sample ID: MB 200-93141/1-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1221	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1232	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1242	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1248	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 200-93141/1-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1260	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/22/15 14:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*30 - 130*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
Tetrachloro-m-xylene	*43*		*30 - 130*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
DCB Decachlorobiphenyl	*34*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
DCB Decachlorobiphenyl	*29*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 14:50*	*1*

Lab Sample ID: LCS 200-93141/2-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	75.3	*	ug/Kg		45	55 - 120		
PCB-1260			167	71.2	*	ug/Kg		43	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*42*		*30 - 130*
Tetrachloro-m-xylene	*42*		*30 - 130*
DCB Decachlorobiphenyl	*39*	*X*	*45 - 125*
DCB Decachlorobiphenyl	*36*	*X*	*45 - 125*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-317297/1-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.60	U	0.60	0.11	ug/L		08/18/15 11:10	08/19/15 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*44 - 150*	*08/18/15 11:10*	*08/19/15 14:54*	*1*
2,4-Dichlorophenylacetic acid	*93*		*44 - 150*	*08/18/15 11:10*	*08/19/15 14:54*	*1*

Lab Sample ID: LCS 460-317297/2-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			10.0	9.29		ug/L		93	79 - 150		
Silvex (2,4,5-TP)			10.0	12.1		ug/L		121	79 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*111*		*44 - 150*
2,4-Dichlorophenylacetic acid	*112*		*44 - 150*

Lab Sample ID: LCSD 460-317297/3-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)			10.0	8.45		ug/L		85	79 - 150	9	30
Silvex (2,4,5-TP)			10.0	9.53		ug/L		95	79 - 150	23	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*99*		*44 - 150*
2,4-Dichlorophenylacetic acid	*100*		*44 - 150*

Lab Sample ID: MB 460-318962/1-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	11	ug/Kg		08/26/15 11:22	08/27/15 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*83 - 150*	*08/26/15 11:22*	*08/27/15 08:00*	*1*
2,4-Dichlorophenylacetic acid	*86*		*83 - 150*	*08/26/15 11:22*	*08/27/15 08:00*	*1*

Lab Sample ID: LCS 460-318962/2-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318962

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			167	182		ug/Kg		109	73 - 150		
Silvex (2,4,5-TP)			167	186		ug/Kg		112	73 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*83 - 150*
2,4-Dichlorophenylacetic acid	*85*		*83 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-317521/1-A
Matrix: Water
Analysis Batch: 317612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/19/15 10:02	08/19/15 12:44	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/19/15 10:02	08/19/15 12:44	1
Barium	200	U	200	5.5	ug/L		08/19/15 10:02	08/19/15 12:44	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/19/15 10:02	08/19/15 12:44	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/19/15 10:02	08/19/15 12:44	1
Chromium	10.0	U	10.0	4.5	ug/L		08/19/15 10:02	08/19/15 12:44	1
Copper	25.0	U	25.0	5.0	ug/L		08/19/15 10:02	08/19/15 12:44	1
Manganese	15.0	U	15.0	4.9	ug/L		08/19/15 10:02	08/19/15 12:44	1
Nickel	40.0	U	40.0	5.4	ug/L		08/19/15 10:02	08/19/15 12:44	1
Lead	10.0	U	10.0	4.2	ug/L		08/19/15 10:02	08/19/15 12:44	1
Selenium	20.0	U	20.0	6.8	ug/L		08/19/15 10:02	08/19/15 12:44	1
Zinc	30.0	U	30.0	5.9	ug/L		08/19/15 10:02	08/19/15 12:44	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 460-317521/2-A
Matrix: Water
Analysis Batch: 317612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	45.84		ug/L		92	80 - 120
Arsenic	2000	1886		ug/L		94	80 - 120
Barium	2000	2010		ug/L		101	80 - 120
Beryllium	50.0	49.56		ug/L		99	80 - 120
Cadmium	50.0	50.08		ug/L		100	80 - 120
Chromium	200	204.6		ug/L		102	80 - 120
Copper	250	238.3		ug/L		95	80 - 120
Manganese	500	506.0		ug/L		101	80 - 120
Nickel	500	517.5		ug/L		104	80 - 120
Lead	500	511.5		ug/L		102	80 - 120
Selenium	2000	1883		ug/L		94	80 - 120
Zinc	500	514.9		ug/L		103	80 - 120

Lab Sample ID: MB 460-319872/1-A ^2
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.18	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Barium	20.0	U	20.0	0.72	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Chromium	1.0	U	1.0	0.48	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Copper	2.5	U	2.5	0.65	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Manganese	1.5	U	1.5	0.53	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Nickel	4.0	U	4.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Lead	1.0	U	1.0	0.39	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Selenium	2.0	U	2.0	0.69	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Zinc	3.0	U	3.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2

Lab Sample ID: LCSSRM 460-319872/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.9	38.37		mg/Kg		93.8	75.1 - 124.7
Arsenic	98.5	88.25		mg/Kg		89.6	77.8 - 122.8
Barium	308	290.3		mg/Kg		94.3	82.5 - 117.5
Beryllium	66.0	58.97		mg/Kg		89.3	83.0 - 116.8
Cadmium	146	134.7		mg/Kg		92.3	82.9 - 117.8
Chromium	182	186.3		mg/Kg		102.3	79.7 - 120.3
Copper	106	108.0		mg/Kg		101.9	81.5 - 118.9

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-319872/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	410	375.9		mg/Kg		91.7	81.2 - 119.0
Nickel	149	147.6		mg/Kg		99.0	82.6 - 117.4
Lead	130	120.1		mg/Kg		92.4	82.3 - 117.7
Selenium	154	132.4		mg/Kg		86.0	77.9 - 122.1
Zinc	191	176.8		mg/Kg		92.6	83.2 - 116.8

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-316989/10-A
Matrix: Water
Analysis Batch: 317071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/17/15 05:42	08/17/15 10:13	1

Lab Sample ID: LCS 460-316989/11-A
Matrix: Water
Analysis Batch: 317071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.903		ug/L		90	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-321598/10-A
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/10/15 05:11	09/10/15 10:22	1

Lab Sample ID: LCSSRM 460-321598/11-A ^20
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.75		mg/Kg		95.1	73.7 - 126.3

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-316848/9
Matrix: Water
Analysis Batch: 316848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U	10.0	4.9	ug/L			08/15/15 09:30	1

Lab Sample ID: LCSSRM 460-316848/10
Matrix: Water
Analysis Batch: 316848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	73.8	78.43		ug/L		106.3	87.3 - 110.2

Lab Sample ID: MB 460-319280/1-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		08/27/15 11:00	08/28/15 18:17	1

Lab Sample ID: LCSI 460-319280/3-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	670.3		mg/Kg		95	80 - 120

Lab Sample ID: LCSSRM 460-319280/4-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	97.4	69.72		mg/Kg		71.6	48.8 - 150.9

Lab Sample ID: MB 460-319281/1-A
Matrix: Solid
Analysis Batch: 319795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		08/27/15 11:00	08/29/15 17:59	1

Lab Sample ID: LCSI 460-319281/3-A
Matrix: Solid
Analysis Batch: 319795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319281

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	677.7		mg/Kg		96	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-319283/1-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10	U	0.10	0.016	mg/Kg		08/27/15 13:30	08/27/15 19:10	1

Lab Sample ID: HLCS 460-319283/3-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.00	1.87		mg/Kg		94	90 - 110

Lab Sample ID: LCSSRM 460-319283/4-A ^20
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	103	24.20		mg/Kg		23.5	3.5 - 121.4

Lab Sample ID: LLCS 460-319283/2-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.00	1.03		mg/Kg		103	90 - 110

Lab Sample ID: MB 460-319285/1-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:43	1

Lab Sample ID: HLCS 460-319285/3-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319285

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.186		mg/L		93	90 - 110

Lab Sample ID: LLCS 460-319285/2-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319285

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.102		mg/L		102	90 - 110

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-206625/1-A
Matrix: Water
Analysis Batch: 210001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206625

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	68.39	U	142	143	214	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Bismuth-214	-1.471	U	18.0	18.0	31.0	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Actinium-228	15.24	U	19.2	19.3	39.9	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Bismuth-212	33.99	U	63.2	63.2	109	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Lead-212	-2.608	U	16.1	16.1	22.1	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Lead-214	5.843	U	13.1	13.1	26.5	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Radium-226	-1.471	U	18.0	18.0	31.0	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Potassium-40	-45.41	U	220	220	215	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Radium-228	15.24	U	19.2	19.3	39.9	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Protactinium-231	0.0000	U	142	142	374	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Thallium-208	3.571	U	6.63	6.64	13.7	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Thorium-234	72.90	U	72.9	73.4	178	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Uranium-238	72.90	U	72.9	73.4	178	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Protactinium-234m	424.8	U	731	732	1250	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Uranium-235	6.282	U	9.06	9.09	66.2	pCi/L	08/19/15 17:11	09/09/15 06:58	1

Lab Sample ID: LCS 160-206625/2-A
Matrix: Water
Analysis Batch: 210001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206625

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	137000	137700		15900	474	pCi/L	101	90 - 111
Cesium-137	48600	49320		4910	160	pCi/L	101	90 - 111
Cobalt-60	48100	47330		4670	112	pCi/L	98	89 - 110

Lab Sample ID: MB 160-208180/1-A
Matrix: Solid
Analysis Batch: 211556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	0.8922	U	1.29	1.29	1.99	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Bismuth-214	0.02098	U	0.0984	0.0984	0.195	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Actinium-228	0.02178	U	0.0380	0.0380	0.393	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Bismuth-212	-0.09059	U	0.390	0.390	0.766	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Lead-212	-0.006023	U	0.0863	0.0863	0.113	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Lead-214	-0.04692	U	4.52	4.52	0.154	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Radium-226	0.02098	U	0.0984	0.0984	0.195	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Potassium-40	-0.3546	U	204	204	1.52	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Radium-228	0.02178	U	0.0380	0.0380	0.393	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Protactinium-231	-0.03020	U	0.151	0.151	1.76	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Thallium-208	-0.001681	U	0.00492	0.00492	0.0866	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Thorium-234	0.2544	U	0.472	0.473	1.37	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Uranium-238	0.2544	U	0.472	0.473	1.37	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Protactinium-234m	0.0000	U	1.52	1.52	13.3	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Uranium-235	0.1055	U	0.176	0.177	0.299	pCi/g	08/27/15 10:12	09/17/15 09:04	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-208180/2-A
Matrix: Solid
Analysis Batch: 211553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208180

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	97.2	101.9		10.7	1.17	pCi/g	105	87 - 116
Cesium-137	30.2	30.09		3.21	0.283	pCi/g	100	87 - 120
Cobalt-60	18.9	18.58		1.92	0.193	pCi/g	99	87 - 115

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-206670/1-A
Matrix: Water
Analysis Batch: 207599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206670

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.1121	U	0.105	0.105	0.150	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-230	0.05259	U	0.0658	0.0660	0.0991	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-232	-0.007974	U	0.0113	0.0113	0.0893	pCi/L	08/20/15 08:50	08/24/15 14:54	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*88.5*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:54*	*1*

Lab Sample ID: LCS 160-206670/2-A
Matrix: Water
Analysis Batch: 207600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206670

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	8.03	7.809		0.958	0.117	pCi/L	97	81 - 125

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*93.7*		*30 - 110*

Lab Sample ID: MB 160-211086/1-A
Matrix: Solid
Analysis Batch: 211718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211086

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	-0.003784	U	0.0380	0.0380	0.0957	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	0.07208		0.0569	0.0572	0.0610	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	-0.0002095	U	0.0160	0.0160	0.0565	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*100*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-211086/2-A
Matrix: Solid
Analysis Batch: 211719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211086

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	26.39		2.68		0.122	pCi/g	108	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*92.1*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-206674/1-A
Matrix: Water
Analysis Batch: 207607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206674

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.05606	U	0.0706	0.0708	0.107	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-235/236	0.0000	U	0.0107	0.0107	0.0644	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-238	0.008607	U	0.0365	0.0365	0.0964	pCi/L	08/20/15 08:50	08/24/15 14:57	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.1*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:57*	*1*

Lab Sample ID: LCS 160-206674/2-A
Matrix: Water
Analysis Batch: 207609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206674

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Uranium-233/234			12.7	12.52		1.44		0.119	pCi/L	98	84 - 120		
Uranium-238			13.0	12.48		1.43		0.118	pCi/L	96	83 - 121		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*78.5*		*30 - 110*

Lab Sample ID: MB 160-208695/1-A
Matrix: Solid
Analysis Batch: 210725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208695

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.007409	U	0.0245	0.0245	0.0616	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0000	U	0.00553	0.00553	0.0443	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	0.03327	U	0.0412	0.0413	0.0539	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.9*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-208695/2-A
Matrix: Solid
Analysis Batch: 210726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208695

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Uranium-233/234			6.37	6.684		0.813		0.0387	pCi/g	105	84 - 120		
Uranium-238			6.51	7.776		0.910		0.0586	pCi/g	119	82 - 122		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*76.2*		*30 - 110*

GC/MS VOA

Analysis Batch: 93214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8260C	93226
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8260C	93226
LCS 200-93214/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93214/7	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 93226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1 - RE	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	5035	
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	5035	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	5035	

Analysis Batch: 93257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8260C	
200-29279-4	TB	Total/NA	Water	8260C	
LCS 200-93257/4	Lab Control Sample	Total/NA	Water	8260C	
MB 200-93257/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 93681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1 - RE	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8260C	93226
LCS 200-93681/4	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93681/6	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 92775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	3510C	
LCS 200-92775/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92775/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 93507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8270D	92775
LCS 200-92775/2-A	Lab Control Sample	Total/NA	Water	8270D	92775
MB 200-92775/1-A	Method Blank	Total/NA	Water	8270D	92775

Prep Batch: 318882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3546	
200-29279-2 - DL	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3546	
LCS 460-318882/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-318882/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-318882/3-A	Lab Control Sample	Total/NA	Solid	8270D	318882
MB 460-318882/1-A	Method Blank	Total/NA	Solid	8270D	318882

GC/MS Semi VOA (Continued)

Analysis Batch: 320254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8270D	318882

Analysis Batch: 320732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-2 - DL	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8270D	318882

GC Semi VOA

Prep Batch: 92773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	3510C	
LCS 200-92773/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92773/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 92774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	3510C	
LCS 200-92774/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92774/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 93129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8082A	92774
LCS 200-92774/2-A	Lab Control Sample	Total/NA	Water	8082A	92774
MB 200-92774/1-A	Method Blank	Total/NA	Water	8082A	92774

Prep Batch: 93141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3541	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3541	
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	3541	
MB 200-93141/1-B	Method Blank	Total/NA	Solid	3541	

Cleanup Batch: 93170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3665A	93141
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3665A	93141
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	3665A	93141
MB 200-93141/1-B	Method Blank	Total/NA	Solid	3665A	93141

Analysis Batch: 93444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8081B	92773
LCS 200-92773/2-A	Lab Control Sample	Total/NA	Water	8081B	92773
MB 200-92773/1-A	Method Blank	Total/NA	Water	8081B	92773

Analysis Batch: 94291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8082A	93170
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8082A	93170

GC Semi VOA (Continued)

Analysis Batch: 94291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	8082A	93170
MB 200-93141/1-B	Method Blank	Total/NA	Solid	8082A	93170

Prep Batch: 317297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8151A	
LCS 460-317297/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-317297/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 460-317297/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 317534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	8151A	317297
LCS 460-317297/2-A	Lab Control Sample	Total/NA	Water	8151A	317297
LCSD 460-317297/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	317297
MB 460-317297/1-A	Method Blank	Total/NA	Water	8151A	317297

Prep Batch: 318825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3546	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3546	
LCS 460-318825/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-318825/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 318875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-318825/2-A	Lab Control Sample	Total/NA	Solid	8081B	318825
MB 460-318825/1-A	Method Blank	Total/NA	Solid	8081B	318825

Prep Batch: 318962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8151A	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8151A	
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 318986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8081B	318825
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8081B	318825

Analysis Batch: 319166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	318962
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	318962

Analysis Batch: 320450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	8151A	318962
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	8151A	318962

Metals

Prep Batch: 316989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	7470A	
LCS 460-316989/11-A	Lab Control Sample	Total/NA	Water	7470A	
MB 460-316989/10-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 317071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	7470A	316989
LCS 460-316989/11-A	Lab Control Sample	Total/NA	Water	7470A	316989
MB 460-316989/10-A	Method Blank	Total/NA	Water	7470A	316989

Prep Batch: 317521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	3010A	
LCS 460-317521/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 460-317521/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 317612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	6010C	317521
LCS 460-317521/2-A	Lab Control Sample	Total/NA	Water	6010C	317521
MB 460-317521/1-A	Method Blank	Total/NA	Water	6010C	317521

Prep Batch: 319872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3050B	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3050B	
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 320446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	6010C	319872
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	6010C	319872
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	6010C	319872
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	6010C	319872

Prep Batch: 321598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	7471B	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	7471B	
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 321698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	7471B	321598
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	7471B	321598
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	321598
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	321598

General Chemistry

Analysis Batch: 93164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	Moisture	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	Moisture	

Analysis Batch: 316848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	7196A	
LCSSRM 460-316848/10	Lab Control Sample	Total/NA	Water	7196A	
MB 460-316848/9	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 317572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	7196A	

Prep Batch: 319280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3060A	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3060A	
LCSI 460-319280/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-319280/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-319280/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 319281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	3060A	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	3060A	
LCSI 460-319281/3-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-319281/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 319283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	9012B	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	9012B	
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	

Prep Batch: 319285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	9012B	
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 319478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	9012B	319283
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	9012B	319283
200-29279-3	FB001_13082015	Total/NA	Water	9012B	319285
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	319283
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	319285

General Chemistry (Continued)

Analysis Batch: 319478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	319285
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	319283
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	319285

Analysis Batch: 319726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	7196A	319280
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	7196A	319280
LCSI 460-319280/3-A	Lab Control Sample	Total/NA	Solid	7196A	319280
LCSSRM 460-319280/4-A	Lab Control Sample	Total/NA	Solid	7196A	319280
MB 460-319280/1-A	Method Blank	Total/NA	Solid	7196A	319280

Analysis Batch: 319795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	7196A	319281
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	7196A	319281
LCSI 460-319281/3-A	Lab Control Sample	Total/NA	Solid	7196A	319281
MB 460-319281/1-A	Method Blank	Total/NA	Solid	7196A	319281

Analysis Batch: 322702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	7196A	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	7196A	

Rad

Prep Batch: 206625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	Fill_Geo-21	
LCS 160-206625/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-206625/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 206670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	ExtChrom	
LCS 160-206670/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-206670/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 206674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-3	FB001_13082015	Total/NA	Water	ExtChrom	
LCS 160-206674/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-206674/1-A	Method Blank	Total/NA	Water	ExtChrom	

Leach Batch: 207746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	Dry and Grind	
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	Dry and Grind	

Rad (Continued)

Prep Batch: 208180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	Fill_Geo-21	207746
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	Fill_Geo-21	207746
LCS 160-208180/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-208180/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 208695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	ExtChrom	207746
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	ExtChrom	207746
LCS 160-208695/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-208695/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 211086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29279-1	RXR13B/-11.2--11.7/13082015	Total/NA	Solid	ExtChrom	207746
200-29279-2	RXR13C/-11.7--12.2/13082015	Total/NA	Solid	ExtChrom	207746
LCS 160-211086/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-211086/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Client Sample ID: RXR13B/-11.2--11.7/13082015

Lab Sample ID: 200-29279-1

Date Collected: 08/13/15 13:30

Matrix: Solid

Date Received: 08/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211556	09/17/15 08:13	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210753	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211720	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR13B/-11.2--11.7/13082015

Lab Sample ID: 200-29279-1

Date Collected: 08/13/15 13:30

Matrix: Solid

Date Received: 08/14/15 10:00

Percent Solids: 64.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93226	08/14/15 12:35	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/27/15 01:21	NEA	TAL BUR
Total/NA	Prep	5035	RE		93226	08/14/15 12:35	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 19:09	NEA	TAL BUR
Total/NA	Prep	3546			318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D		5	320254	09/02/15 02:38	CAZ	TAL EDI
Total/NA	Prep	3546			318825	08/26/15 08:20	ARA	TAL EDI
Total/NA	Analysis	8081B		1	318986	08/26/15 15:25	SAK	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94291	09/22/15 15:23	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 19:30	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:38	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 10:56	TJS	TAL EDI
Total/NA	Analysis	7196A		1	322702	09/16/15 08:55	JMP	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:41	MAL	TAL EDI

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: RXR13C/-11.7--12.2/13082015

Lab Sample ID: 200-29279-2

Date Collected: 08/13/15 13:40
Matrix: Solid
Date Received: 08/14/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211553	09/17/15 08:15	RTM	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210770	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211721	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR13C/-11.7--12.2/13082015

Lab Sample ID: 200-29279-2

Date Collected: 08/13/15 13:40
Matrix: Solid
Date Received: 08/14/15 10:00
Percent Solids: 60.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93226	08/14/15 12:35	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/27/15 02:23	NEA	TAL BUR
Total/NA	Prep	3546	DL		318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D	DL	50	320732	09/04/15 02:54	FAM	TAL EDI
Total/NA	Prep	3546			318825	08/26/15 08:20	ARA	TAL EDI
Total/NA	Analysis	8081B		1	318986	08/26/15 15:38	SAK	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94291	09/22/15 15:40	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 19:45	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:41	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 10:58	TJS	TAL EDI
Total/NA	Analysis	7196A		1	322702	09/16/15 08:55	JMP	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:42	MAL	TAL EDI

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Client Sample ID: FB001_13082015

Date Collected: 08/13/15 14:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93257	08/27/15 18:31	JSW	TAL BUR
Total/NA	Prep	3510C			92775	08/14/15 18:48	BL	TAL BUR
Total/NA	Analysis	8270D		1	93507	09/02/15 12:24	DJB	TAL BUR
Total/NA	Prep	3510C			92773	08/14/15 18:45	BL	TAL BUR
Total/NA	Analysis	8081B		1	93444	09/01/15 12:57	KAB	TAL BUR
Total/NA	Prep	3510C			92774	08/14/15 18:47	BL	TAL BUR
Total/NA	Analysis	8082A		1	93129	08/25/15 10:49	ELD	TAL BUR
Total/NA	Prep	8151A			317297	08/18/15 11:10	MBE	TAL EDI
Total/NA	Analysis	8151A		1	317534	08/19/15 13:27	SAK	TAL EDI
Total/NA	Prep	3010A			317521	08/19/15 10:02	QZY	TAL EDI
Total/NA	Analysis	6010C		1	317612	08/19/15 17:07	CDC	TAL EDI
Total/NA	Prep	7470A			316989	08/17/15 05:42	TJS	TAL EDI
Total/NA	Analysis	7470A		1	317071	08/17/15 11:07	TJS	TAL EDI
Total/NA	Analysis	7196A		1	317572	08/19/15 13:10	TJW	TAL EDI
Total/NA	Analysis	7196A		1	316848	08/15/15 11:00	RAK	TAL EDI
Total/NA	Prep	9012B			319285	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:45	MAL	TAL EDI
Total/NA	Prep	Fill_Geo-21			206625	08/19/15 17:11	R1S	TAL SL
Total/NA	Analysis	901.1		1	210001	09/09/15 10:39	ALS	TAL SL
Total/NA	Prep	ExtChrom			206670	08/20/15 08:50	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	207604	08/24/15 14:53	CDH	TAL SL
Total/NA	Prep	ExtChrom			206674	08/20/15 08:50	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	207612	08/24/15 14:57	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: TB

Date Collected: 08/13/15 00:00
Date Received: 08/14/15 10:00

Lab Sample ID: 200-29279-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93257	08/27/15 19:03	JSW	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8081B	3510C	Water	Mirex
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
7196A		Water	Cr (III)

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15 *
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA150017	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	09-30-15 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUR
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUR
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUR
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
8151A	Herbicides (GC)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
9012B	Cyanide, Total andor Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL BUR
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29279-2
SDG: 200-29279

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-29279-1	RXR13B/-11.2--11.7/13082015	Solid	08/13/15 13:30	08/14/15 10:00
200-29279-2	RXR13C/-11.7--12.2/13082015	Solid	08/13/15 13:40	08/14/15 10:00
200-29279-3	FB001_13082015	Water	08/13/15 14:00	08/14/15 10:00
200-29279-4	TB	Water	08/13/15 00:00	08/14/15 10:00

SDG # 200-292792 Analytical Report..... 1

Sample Receipt Documentation 26

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 200-29279-2

Glen Isle Waterfront Redevelop
SDG #: 200-292792

Stephanie Sanders

TestAmerica Burlington
30 Community Drive, Suite #11
South Burlington, VT 05403

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

September 11, 2015

ANALYTICAL METHODS SUMMARY

200-292792

PARAMETER	ANALYTICAL METHOD
Dibenzodioxins and Dibenzofurans, HRGC/HRMS	SW846 8290A
Percent Moisture	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

200-292792 : H5H260404

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7HTJ	001	RXR13B/-11.2--11.7/13082015	08/13/15	13:30
M7HTK	002	RXR13C/-11.7--12.2/13082015	08/13/15	13:40

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

200-292792 : H5I010412

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7JCC	001	FB001-13082015	08/13/15	14:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
200-292792

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Chain of custody documentation was not received with the sample shipment received on 9/1/15. An email copy was sent to the lab.

The lab received only the Field Blank samples for EPA method 8290 in the sample shipment received on 9/1/15.

The "Relinquished by" field on the chain of custody documentation for 9/1/15 did not contain a signature.

The chain of custody documentation for 9/1/15 listed Method 8280A, but the client confirmed that Method 8290A was required.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For solid and sediments samples, when percent moisture is included in the report header field, the sample results are reported on a dry weight basis. When percent moisture is not contained in the header field, sample results are reported on an as received or wet weight basis.

All QC criteria were met with the following exceptions:

For samples RXR13B/-11.2—11.7/13082015 and RXR13C/-11.7—12.2/13082015 the recoveries of several internal standards were below the lower acceptance criterion (40%). The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analytes was met. The results are reported in accordance with the standard operating procedure. As indicated by the referenced method, isotope dilution techniques produce results that are independent of internal standard recovery.

Comment:

All positive 2378-TCDF results at or above the minimum level were confirmed on a DB-225 column. The raw data for the DB-225 analyses are included in the data package directly following the primary Rtx-5 analysis. The results for the Rtx-5 and DB-225 analyses are included on one report form to correctly calculate the Total TEQ Concentration.

PROJECT NARRATIVE
200-292792

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report, the ML is qualitatively defined as described above, and quantitatively defined as follows:

Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the Upper Calibration Level (UCL) described below. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this example, all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a detectable level. For this analysis, there is no method specified reporting level other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of $\geq$2.5 to 1. Therefore, the presence of any reportable amount of the analyte in the blank will result in a B qualifier on all associated samples.

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Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. These may include one or more of the following:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio).
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- 2,3,7,8-TCDF result is reported from the non-isomer specific Rtx-5 column.
- Polychlorinated dibenzofuran purity. An interference may be present on the indicated polychlorinated dibenzofuran when a polychlorinated diphenyl ether peak is present and maximizes within +/- 3 seconds of the dibenzofuran candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer.

X – Other. See explanation in narrative.

Laboratory studies supporting risk assessment and Total Maximum Daily Load (TMDL) evaluations, frequently use qualified data reported as low as the Method Detection Limit (MDL), or the Estimated Detection Limit (EDL). Several of EPA's isotope dilution methods employ the EDL.[1,2,3] The EDL is based on a direct measurement of the signal-to-noise (S/N) ratio acquired during sample analysis. This S/N measurement is used to calculate the concentration in the sample corresponding to the minimum intensity of the smallest quantifiable peak. The EDL reflects the amount of the particular analyte which would be required to cause a positive result for the particular analysis. Because the S/N obtained covaries with recovery, instrument sensitivity and sample-specific cleanup efficacy, the EDL is a more valid measure of the sensitivity of the entire analytical process for the specific sample than is an MDL run periodically on a reference matrix.

The EDL is typically calculated according to the following equation:

$$\text{Estimated Detection Limit} = \frac{N \times 2.5 \times Qis}{His \times RRF \times W \times S}$$

Where:

N = peak to peak noise of quantitation ion signal in the region of the ion chromatogram where the compound of interest is expected to elute

His = peak height of quantitation ion for appropriate internal standard

PROJECT NARRATIVE
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Qis	=	ng of internal standard added to sample
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor.)

This method of estimating the detection limit differs from the MDL in that it does not carry the requirement that the sample be statistically distinguished as being from a contaminated population. As results approach the EDL, the risk of false positives and the analytical uncertainty increase significantly. However, a low false positive well below the ML or MDL is often closer to the true value than an assumption that the target analyte is present at the detection or reporting limits. For relatively clean samples, MDL studies may give an elevated estimate of the detection limit. Additionally, on contaminated samples, the MDL may give a falsely low estimate of the detection limit.

$$\text{Analyte Concentration} = \frac{As \times Qis}{Ais \times RRF \times W \times S}$$

Where:

As	=	Sum of areas of the target peaks
Qis	=	ng of internal standard added to sample
Ais	=	Sum of areas of the internal standard peaks
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

In sample data, peaks must have an intensity of $\geq$2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 times the noise on the calibration. This is the result of normal variability. Because the source methods for the EDL (SW-846 8290 and 8280A) do not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

Footnotes:

1. Code of Federal Regulations, Part 136, Chapter 1, Appendix 1, October 1994: Method 1613 Tetra- Through Octa-Chlorinated Dioxins and Furans by Isotope Dilution High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

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2. U.S. EPA. Test Methods for Evaluating Solid Waste, Volume II, SW-846, Update III, December 1996. Method 8280A: The Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry.
3. U.S. EPA. Test Methods for Evaluating Solid Waste, SW-846. Third Edition. March 1995 Method 8290: Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA150004
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	TN02014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-14-7
TestAmerica Knoxville	Federal	USDA		P330-11-00260
TestAmerica Knoxville	Utah	NELAC	8	TN000092014-5
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	00165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes in this report. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

TestAmerica Burlington

Client Sample ID: RXR13B/-11.2--11.7/13082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260404 - 001	**Work Order #....:**	M7HTJ1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/13/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	32
Initial Wgt/Vol :	15 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/10/15**	**1**	**1.33 Q**	**0.983**	**0.816**	**1.0**	**1.33**
1,2,3,7,8-PeCDD	**9/10/15**	**1**	**2.90 Q J**	**4.92**	**0.325**	**0.5**	**1.45**
1,2,3,4,7,8-HxCDD	**9/10/15**	**1**	**4.34 J**	**4.92**	**0.337**	**0.1**	**0.434**
1,2,3,6,7,8-HxCDD	**9/10/15**	**1**	**14.0**	**4.92**	**0.350**	**0.1**	**1.40**
1,2,3,7,8,9-HxCDD	**9/10/15**	**1**	**9.97 C**	**4.92**	**0.319**	**0.1**	**0.997**
1,2,3,4,6,7,8-HpCDD	**9/10/15**	**1**	**190 B**	**4.92**	**0.325**	**0.01**	**1.90**
OCDD	**9/10/15**	**1**	**2170 B**	**9.83**	**0.572**	**0.001**	**2.17**
2,3,7,8-TCDF	**9/9/15**	**1**	**6.04**	**0.983**	**0.132**	**0.1**	**0.604**
1,2,3,7,8-PeCDF	**9/10/15**	**1**	**3.86 Q J**	**4.92**	**0.269**	**0.05**	**0.193**
2,3,4,7,8-PeCDF	**9/10/15**	**1**	**6.10 Q**	**4.92**	**0.270**	**0.5**	**3.05**
1,2,3,4,7,8-HxCDF	**9/10/15**	**1**	**15.3 Q**	**4.92**	**0.217**	**0.1**	**1.53**
1,2,3,6,7,8-HxCDF	**9/10/15**	**1**	**6.85**	**4.92**	**0.206**	**0.1**	**0.685**
2,3,4,6,7,8-HxCDF	**9/10/15**	**1**	**6.04**	**4.92**	**0.243**	**0.1**	**0.604**
1,2,3,7,8,9-HxCDF	**9/10/15**	**1**	**0.395 J**	**4.92**	**0.238**	**0.1**	**0.0395**
1,2,3,4,6,7,8-HpCDF	**9/10/15**	**1**	**68.4 B**	**4.92**	**0.343**	**0.01**	**0.684**
1,2,3,4,7,8,9-HpCDF	**9/10/15**	**1**	**4.52 Q J**	**4.92**	**0.382**	**0.01**	**0.0452**
OCDF	**9/10/15**	**1**	**89.9 B**	**9.83**	**0.298**	**0.001**	**0.0899**
Total TEQ Concentration							**17.2**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	54	(40 - 135)
13C-1,2,3,7,8-PeCDD	47	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	49	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	47	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	47	(40 - 135)
13C-OCDD	44	(40 - 135)
13C-2,3,7,8-TCDF	60	(40 - 135)
13C-1,2,3,7,8-PeCDF	44	(40 - 135)
13C-2,3,4,7,8-PeCDF	44	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	45	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	45	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	44	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	46	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	44	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	46	(40 - 135)
13C-OCDF	38 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR13C/-11.7--12.2/13082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260404 - 002	**Work Order #....:**	M7HTK1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/13/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	47
Initial Wgt/Vol :	18.8 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/10/15	1	1.10	1.00	0.716	1.0	1.10
1,2,3,7,8-PeCDD	9/10/15	1	7.23	5.01	0.374	0.5	3.62
1,2,3,4,7,8-HxCDD	9/10/15	1	11.0 Q	5.01	0.565	0.1	1.10
1,2,3,6,7,8-HxCDD	9/10/15	1	21.6	5.01	0.563	0.1	2.16
1,2,3,7,8,9-HxCDD	9/10/15	1	29.0 C	5.01	0.525	0.1	2.90
1,2,3,4,6,7,8-HpCDD	9/10/15	1	326 B	5.01	0.573	0.01	3.26
OCDD	9/10/15	1	3100 B	10.0	0.713	0.001	3.10
2,3,7,8-TCDF	9/9/15	1	6.61	1.00	0.158	0.1	0.661
1,2,3,7,8-PeCDF	9/10/15	1	7.45	5.01	0.266	0.05	0.372
2,3,4,7,8-PeCDF	9/10/15	1	10.9 Q	5.01	0.279	0.5	5.45
1,2,3,4,7,8-HxCDF	9/10/15	1	42.9 Q	5.01	0.295	0.1	4.29
1,2,3,6,7,8-HxCDF	9/10/15	1	18.3	5.01	0.302	0.1	1.83
2,3,4,6,7,8-HxCDF	9/10/15	1	20.1	5.01	0.349	0.1	2.01
1,2,3,7,8,9-HxCDF	9/10/15	1	1.21 Q J	5.01	0.392	0.1	0.121
1,2,3,4,6,7,8-HpCDF	9/10/15	1	172 B	5.01	0.473	0.01	1.72
1,2,3,4,7,8,9-HpCDF	9/10/15	1	12.2	5.01	0.558	0.01	0.122
OCDF	9/10/15	1	183 B	10.0	0.798	0.001	0.183
Total TEQ Concentration							**34.0**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	60	(40 - 135)
13C-1,2,3,7,8-PeCDD	50	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	51	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	52	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	44	(40 - 135)
13C-OCDD	25 *	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	50	(40 - 135)
13C-2,3,4,7,8-PeCDF	48	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	51	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	49	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	47	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	49	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	41	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	39 *	(40 - 135)
13C-OCDF	23 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR13C/-11.7--12.2/13082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: FB001-13082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5I010412 - 001	**Work Order #....:**	M7JCC1AA	**Matrix.....:**	WATER
Date Sampled....:	08/13/15	**Date Received....:**	09/01/15	**Units....:**	pg/L
Prep Date....:	09/02/15			**Dilution Factor:**	1
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	906 mL	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/10/15	1	ND	11.0	1.28	1.0	0.640
1,2,3,7,8-PeCDD	9/10/15	1	ND	55.2	0.594	0.5	0.148
1,2,3,4,7,8-HxCDD	9/10/15	1	ND	55.2	0.642	0.1	0.0321
1,2,3,6,7,8-HxCDD	9/10/15	1	ND	55.2	0.729	0.1	0.0364
1,2,3,7,8,9-HxCDD	9/10/15	1	ND	55.2	0.635	0.1	0.0318
1,2,3,4,6,7,8-HpCDD	9/10/15	1	ND	55.2	0.636	0.01	0.00318
OCDD	**9/10/15**	**1**	**10.5 Q B J**	**110**	**1.01**	**0.001**	**0.0105**
2,3,7,8-TCDF	9/10/15	1	ND	11.0	0.863	0.1	0.0432
1,2,3,7,8-PeCDF	9/10/15	1	ND	55.2	0.469	0.05	0.0117
2,3,4,7,8-PeCDF	9/10/15	1	ND	55.2	0.414	0.5	0.103
1,2,3,4,7,8-HxCDF	9/10/15	1	ND	55.2	0.287	0.1	0.0144
1,2,3,6,7,8-HxCDF	9/10/15	1	ND	55.2	0.298	0.1	0.0149
2,3,4,6,7,8-HxCDF	9/10/15	1	ND	55.2	0.303	0.1	0.0152
1,2,3,7,8,9-HxCDF	9/10/15	1	ND	55.2	0.373	0.1	0.0186
1,2,3,4,6,7,8-HpCDF	9/10/15	1	ND	55.2	0.584	0.01	0.00292
1,2,3,4,7,8,9-HpCDF	9/10/15	1	ND	55.2	0.718	0.01	0.00359
OCDF	9/10/15	1	ND	110	1.13	0.001	0.000565
Total TEQ Concentration							**1.13**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	93	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	79	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	59	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	83	(40 - 135)
13C-2,3,4,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	77	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	78	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	65	(40 - 135)
13C-OCDF	52	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: FB001-13082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 011B	**Work Order #....:**	M7HW61AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/04/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239011				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		1.00	0.299	pg/g
1,2,3,7,8-PeCDD	ND		5.00	0.0969	pg/g
1,2,3,4,7,8-HxCDD	ND		5.00	0.0769	pg/g
1,2,3,6,7,8-HxCDD	ND		5.00	0.0790	pg/g
1,2,3,7,8,9-HxCDD	ND		5.00	0.0725	pg/g
1,2,3,4,6,7,8-HpCDD	**0.247**	**Q J**	**5.00**	**0.0804**	**pg/g**
OCDD	**2.83**	**J**	**10.0**	**0.0901**	**pg/g**
2,3,7,8-TCDF	ND		1.00	0.135	pg/g
1,2,3,7,8-PeCDF	ND		5.00	0.0561	pg/g
2,3,4,7,8-PeCDF	ND		5.00	0.0524	pg/g
1,2,3,4,7,8-HxCDF	ND		5.00	0.0439	pg/g
1,2,3,6,7,8-HxCDF	ND		5.00	0.0458	pg/g
2,3,4,6,7,8-HxCDF	ND		5.00	0.0464	pg/g
1,2,3,7,8,9-HxCDF	ND		5.00	0.0558	pg/g
1,2,3,4,6,7,8-HpCDF	**0.155**	**Q J**	**5.00**	**0.0631**	**pg/g**
1,2,3,4,7,8,9-HpCDF	ND		5.00	0.0783	pg/g
OCDF	**1.18**	**J**	**10.0**	**0.0837**	**pg/g**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,4,7,8-HxCDD	66	40 - 135
13C-1,2,3,6,7,8-HxCDD	66	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	70	40 - 135
13C-OCDD	61	40 - 135
13C-2,3,7,8-TCDF	61	40 - 135
13C-1,2,3,7,8-PeCDF	66	40 - 135
13C-2,3,4,7,8-PeCDF	66	40 - 135
13C-1,2,3,4,7,8-HxCDF	61	40 - 135
13C-1,2,3,6,7,8-HxCDF	60	40 - 135
13C-2,3,4,6,7,8-HxCDF	63	40 - 135
13C-1,2,3,7,8,9-HxCDF	62	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	66	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	62	40 - 135
13C-OCDF	55	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 011B	**Work Order #....:**	M7HW61AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/04/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239011				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292792	**Work Order # ...:**	M7HW61AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H5H270000 - 011				
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/09/15		
Prep Batch # ...:	5239011				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	**20.0**	**21.6**	**pg/g**	**108**		**(79 - 129)**
1,2,3,7,8-PeCDD	**100**	**106**	**pg/g**	**106**		**(79 - 129)**
1,2,3,4,7,8-HxCDD	**100**	**102**	**pg/g**	**102**		**(73 - 123)**
1,2,3,6,7,8-HxCDD	**100**	**98.1**	**pg/g**	**98**		**(74 - 124)**
1,2,3,7,8,9-HxCDD	**100**	**103**	**pg/g**	**103**		**(70 - 124)**
1,2,3,4,6,7,8-HpCDD	**100**	**96.9**	**pg/g**	**97**	**B**	**(73 - 123)**
OCDD	**200**	**189**	**pg/g**	**94**	**B**	**(75 - 125)**
2,3,7,8-TCDF	**20.0**	**22.1**	**pg/g**	**110**		**(75 - 125)**
1,2,3,7,8-PeCDF	**100**	**94.6**	**pg/g**	**95**		**(74 - 124)**
2,3,4,7,8-PeCDF	**100**	**100**	**pg/g**	**100**		**(75 - 125)**
1,2,3,4,7,8-HxCDF	**100**	**98.6**	**pg/g**	**99**		**(75 - 125)**
1,2,3,6,7,8-HxCDF	**100**	**102**	**pg/g**	**102**		**(76 - 126)**
2,3,4,6,7,8-HxCDF	**100**	**99.0**	**pg/g**	**99**		**(76 - 126)**
1,2,3,7,8,9-HxCDF	**100**	**98.3**	**pg/g**	**98**		**(77 - 127)**
1,2,3,4,6,7,8-HpCDF	**100**	**94.2**	**pg/g**	**94**	**B**	**(77 - 127)**
1,2,3,4,7,8,9-HpCDF	**100**	**98.9**	**pg/g**	**99**		**(73 - 123)**
OCDF	**200**	**195**	**pg/g**	**97**	**B**	**(49 - 128)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	65	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	71	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	80	(40 - 135)
13C-2,3,7,8-TCDF	66	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-2,3,4,7,8-PeCDF	76	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	70	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	72	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	78	(40 - 135)
13C-OCDF	81	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10.0	1.53	pg/L
1,2,3,7,8-PeCDD	ND		50.0	0.578	pg/L
1,2,3,4,7,8-HxCDD	ND		50.0	0.575	pg/L
1,2,3,6,7,8-HxCDD	ND		50.0	0.601	pg/L
1,2,3,7,8,9-HxCDD	ND		50.0	0.547	pg/L
1,2,3,4,6,7,8-HpCDD	**1.15**	**Q J**	**50.0**	**0.497**	**pg/L**
OCDD	**11.0**	**J**	**100**	**0.789**	**pg/L**
2,3,7,8-TCDF	ND		10.0	0.927	pg/L
1,2,3,7,8-PeCDF	ND		50.0	0.368	pg/L
2,3,4,7,8-PeCDF	ND		50.0	0.335	pg/L
1,2,3,4,7,8-HxCDF	ND		50.0	0.392	pg/L
1,2,3,6,7,8-HxCDF	ND		50.0	0.385	pg/L
2,3,4,6,7,8-HxCDF	ND		50.0	0.382	pg/L
1,2,3,7,8,9-HxCDF	ND		50.0	0.496	pg/L
1,2,3,4,6,7,8-HpCDF	ND		50.0	0.451	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50.0	0.577	pg/L
OCDF	**3.90**	**J**	**100**	**0.717**	**pg/L**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	40 - 135
13C-1,2,3,7,8-PeCDD	89	40 - 135
13C-1,2,3,4,7,8-HxCDD	83	40 - 135
13C-1,2,3,6,7,8-HxCDD	80	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	80	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-2,3,4,7,8-PeCDF	82	40 - 135
13C-1,2,3,4,7,8-HxCDF	74	40 - 135
13C-1,2,3,6,7,8-HxCDF	73	40 - 135
13C-2,3,4,6,7,8-HxCDF	77	40 - 135
13C-1,2,3,7,8,9-HxCDF	78	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	77	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	75	40 - 135
13C-OCDF	73	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292792	**Work Order # ...:**	M7JFV1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	H5I020000 - 017				
Prep Date .....:	09/02/15	**Analysis Date ..:**	09/10/15		
Prep Batch # ...:	5245017				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	200	209	pg/L	104		(77 - 127)
1,2,3,7,8-PeCDD	1000	1080	pg/L	108		(78 - 128)
1,2,3,4,7,8-HxCDD	1000	1060	pg/L	106		(73 - 123)
1,2,3,6,7,8-HxCDD	1000	1030	pg/L	103		(72 - 127)
1,2,3,7,8,9-HxCDD	1000	1030	pg/L	103		(76 - 126)
1,2,3,4,6,7,8-HpCDD	1000	974	pg/L	97	B	(73 - 123)
OCDD	2000	1830	pg/L	91	B	(75 - 125)
2,3,7,8-TCDF	200	219	pg/L	110		(74 - 124)
1,2,3,7,8-PeCDF	1000	986	pg/L	99		(74 - 124)
2,3,4,7,8-PeCDF	1000	1040	pg/L	104		(74 - 124)
1,2,3,4,7,8-HxCDF	1000	1030	pg/L	103		(75 - 125)
1,2,3,6,7,8-HxCDF	1000	1040	pg/L	104		(75 - 125)
2,3,4,6,7,8-HxCDF	1000	1010	pg/L	101		(76 - 126)
1,2,3,7,8,9-HxCDF	1000	1010	pg/L	101		(76 - 126)
1,2,3,4,6,7,8-HpCDF	1000	986	pg/L	99		(71 - 121)
1,2,3,4,7,8,9-HpCDF	1000	1010	pg/L	101		(73 - 123)
OCDF	2000	1960	pg/L	98	B	(68 - 132)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	76	(40 - 135)
13C-OCDD	58	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	79	(40 - 135)
13C-2,3,4,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	81	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	71	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	66	(40 - 135)
13C-OCDF	54	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Sample Receipt Documentation

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

HSH260404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22570.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 200-29279-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalenccy Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR13B/-11.2--11.7/13082015 (200-29279-1)	8/13/15	13:30 Eastern		Solid			X	1	CUSTODY SEALS INTACT
RXR13C/-11.7--12.2/13082015 (200-29279-2)	8/13/15	13:40 Eastern		Solid			X	1	RECEIVED AT RT.07/CT.0.7°C
									BED 8-25-15
									1 COOLER FEDX#
									646184059885

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/24/15 1515	TA	[signature]	8-25-15 10:20	TA KNOX

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HSH260404

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC57 Correction factor: 0.0	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a See box 3A for pH Preservation ☐ 3b Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ 9a Could not be determined due to matrix interference
10. Were samples received within holding time?	✓			☐ 10a Holding time expired
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information
18. Is the client and project name/# identified?	✓	✓		☐ 15a Incomplete information
19. Was the sampler identified on the COC?		✓		☐ 19a Other

Comments/Actions Taken

Labeling Verified by: _____ **Date:** _____

pH test strip lot number: _____

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: NA

Sample Receiving Associate: [signature] Date: 8-25-15

QA026R29.doc, 041115

H5I 010412

200-29279 Chain of Custody

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J. Racaniello	Lab PM: Sanders, Stephanie D	C No: 0-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 1
Company: ~~P.W. Grosser Consulting~~ RXR - GI Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek Sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8270A 1613B Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
RXR13B/-11.2 - -11.7/13082015	8/13/15	1330	C	Solid			X	X	X	X	X	X	0	
RXR13C/-11.7 - -12.2/13082015	8/13/15	1340	C	Solid			X	X	X	X	X	X	0	
FB001-13082015	8/13/15	1400	—	Water ~~Solid~~				X	X	X	X	X	17	
TB	—	—	—	Water ~~Solid~~						X			1	CUSTODY SEALS INTACT
				Solid										RECEIVED AT RT 0.1/CT 0.1 C
				Solid										DKD 9-1-15
				Solid										1 COOLER FED X #
				Solid										6503 7392 1660
				Solid										
				Solid										
				Solid										

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Amanda J Racaniello	8/13/15 1440	PWGC	[signature]	8/13/15 14:40	T.A
[signature]	8/12/15 1750	T.A	[signature]	8/14/15 1000	TA BTV
			[signature]	9-1-15 10:15	TA KNOX

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 445101112

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☑ 1f COC not received ☑ 1g Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: 5657 Correction factor: 0.0	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a See box 3A for pH Preservation ☐ 3b Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:
5. Were all of the samples listed on the COC received?		✓		☐ 5a Samples received-not on COC ☑ 5b Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken
7. Were VOA samples received without headspace?	✓		✓	☐ 7a Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	✓		✓	☐ 9a Could not be determined due to matrix interference
10. Were samples received within holding time?	✓		✓	☐ 10a Holding time expired
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓	✓		☐ 13a Leaking ☐ 13b Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓	✓		☑ 14a Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information
17. Is the date/time of sample collection noted?	✓	✓		☐ 15a Incomplete information
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information
19. Was the sampler identified on the COC?		✓		☐ 19a Other

Comments/Actions Taken

IF, USING EMAIL COPY

SB ONLY RECEIVED FIELD BLANKS FOR 8290 SAMPLES

N/A

16, COC LIST 8280A, SHOULD BE 8290A

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: _____

Sample Receiving Associate: _____ Date: 9-1-15

QA026R29.doc, 041115

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

200-29279 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J. Racaniello	Lab PM: Sanders, Stephanie D	C No: 0-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516)417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 1
Company: ~~P.W. Grosser Consulting~~ RXR - GI Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~, 625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek Sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8290A Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	F/J	N	N		
RXR13B-11.2-11.7 13082015	8/13/15	1330	C	Solid			X	X	X	X	X	X	9	
RXR13C-11.7-12.2 13082015	8/13/15	1340	C	Solid			X	X	X	X	X	X	9	
FB001-13082015	8/13/15	1400	—	~~Water~~ Solid				X	X	X	X	X	17	
TB	—	—	—	~~Water~~ Solid						X			1	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Amanda J. Racaniello	Date/Time: 8/13/15 1440	Company PWGC	Received by:	Date/Time: 8/12/15 14:40	Company T. A
Relinquished by:	Date/Time: 8/12/15 1700	Company T. A	Received by:	Date/Time: 8/14/15 1000	Company TA BTV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

9/29/2015

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30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J. Raconiello	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1822	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: ~~P.W. Grosser Consulting~~ RXR-GI Partners, LLC				Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:			
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):			
State, Zip: ~~NY, 11542~~				
Phone:	PO #: Purchase Order Requested			
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:			
Project Name: Glen Isle Creek Sampling	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, ~~8151A, 9012B (TA Edison)~~	~~8260B~~	~~9014_Ra, A01R_Th, A01R_U (TA St. Louis)~~	~~8290A~~ ~~1613B~~ Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	F/J	N	N	X	
FB001_13082015	8/13/15	1400		~~Solid~~					X				1	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

SHORT HOLD

AB

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Amanda J Raconiello	8/13/15 1440	PWGC	[signature]	8/13/15 14:40	[signature]
	8/13/15 17:20	T.A	[signature]	8/13/15 17:20	TA Ed
			[signature]	8/14/15 1000	TA BVD

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

1.5 / 3.5 ERHS WOC

Tracking Confirmation Form

Test America Edison Location

Thursday, August 13, 2015

SubWork Tracking Numbers: T.A. Burlington

August 13, 2015

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

58 LBS 1 OF 2

(732) 549-3900
SEVERN TRENT LABS
777 NEW DURHAM ROAD
EDISON NJ 08837

SHIP TO:
SAMPLE RECEIVING
(802) 655-1203
TEST AMERICA BURLINGTON
SUITE 11
30 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

VT 054 0-02

UPS NEXT DAY AIR 1

TRACKING #: 1Z 083 95E 01 5994 1487

BILLING: F/C BILL RECEIVER

55 LBS 2 OF 2

(732) 549-3900
SEVERN TRENT LABS
777 NEW DURHAM ROAD
EDISON NJ 08837

SHIP TO:
SAMPLE RECEIVING
(802) 655-1203
TEST AMERICA BURLINGTON
SUITE 11
30 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403

VT 054 0-02

UPS NEXT DAY AIR 1

TRACKING #: 1Z 083 95E 01 6058 4094

BILLING: F/C BILL RECEIVER

Please use the tracking numbers and cooler count as informational source.

1

Created by Edison Sample Management

Tracking Confirmation Form

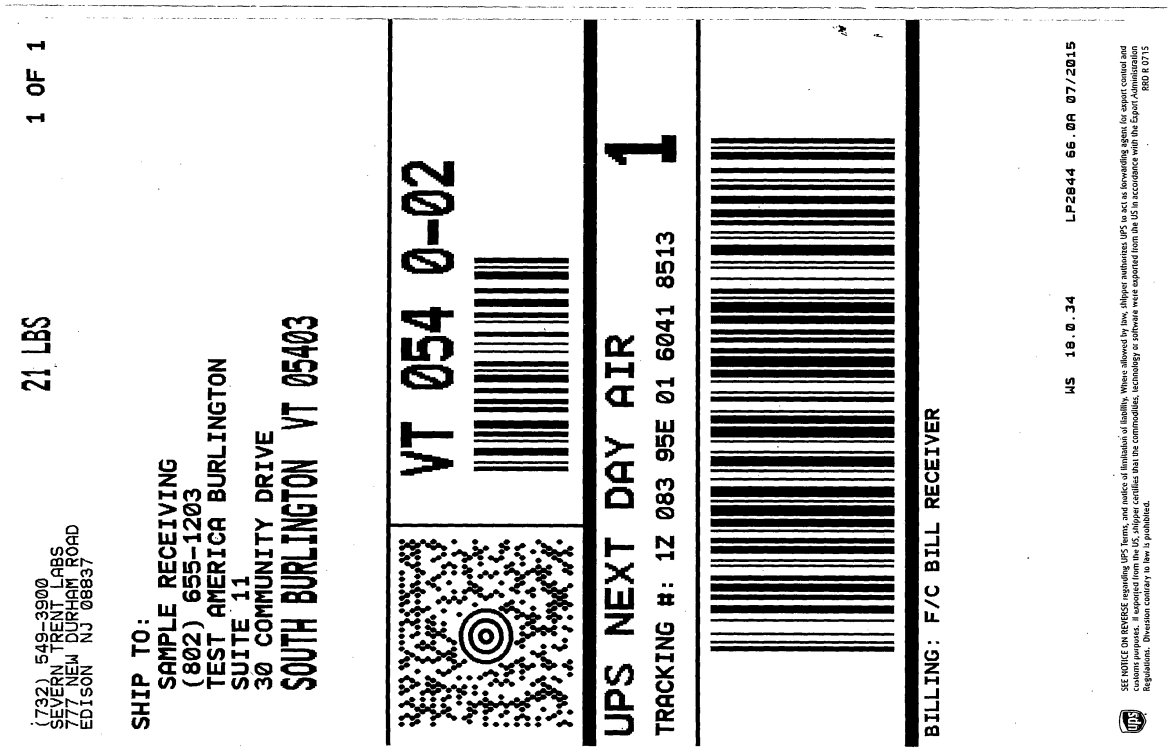
Test America Edison Location

Thursday, August 13, 2015

August 13, 2015

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SubWork Tracking Numbers: T.A. Burlington



Please use the tracking numbers and cooler count as informational source.

1

Created by Edison Sample Management

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22569.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 200-29279-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2015			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_Ra228	A01R_U/Dry_Grind (MOD) Standard Target List	901.1_Ra/Dry_Grind (MOD) NORM Target List	A01R_Th/Dry_Grind (MOD) Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
RXR13B/-11.2–11.7/13082015 (200-29279-1)	8/13/15	13:30 Eastern		Solid			X	X	X	X	1	
RXR13C/-11.7–12.2/13082015 (200-29279-2)	8/13/15	13:40 Eastern		Solid			X	X	X	X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/24/15 1500	TA	[signature] Clark	8.25.15 0930	TA STL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Page 101 of 107

9/29/2015

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/29/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22573.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29279-2
Address: 777 New Durham Road, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Edison	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7196A/3060A	6010C/3050B (MOD) Metals TCL List	7471B/7471B_Prep	8151A/8151A_SP (MOD) Standard Herbicide List - 3 cmpds	9012B/9012B_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
RXR13B/-11.2--11.7/13082015 (200-29279-1)	8/13/15	13:30 Eastern		Solid			X	X	X	X	X	X		
RXR13C/-11.7--12.2/13082015 (200-29279-2)	8/13/15	13:40 Eastern		Solid			X	X	X	X	X	X		

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/27/15 1600	TA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/25/15 945			8/25/15 945	TA-Edison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 290029	Cooler Temperature(s) °C and Other Remarks: 1.8 / 3.8 °C IR#5

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29279-2
SDG Number: 200-29279

Login Number: 29279
List Number: 1
Creator: Atherton, Joel E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2ºC, 0.4ºC, 0.6ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29279-2
SDG Number: 200-29279

Login Number: 29279
List Number: 2
Creator: Hall, Alonzo

List Source: TestAmerica Edison
List Creation: 08/15/15 10:52 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	289848
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29279-2
SDG Number: 200-29279

Login Number: 29279
List Number: 4
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 08/25/15 11:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	290029
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29279-2
SDG Number: 200-29279

Login Number: 29279
List Number: 3
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/17/15 01:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29279-2
SDG Number: 200-29279

Login Number: 29279
List Number: 5
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/25/15 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 200-29296-2
TestAmerica Sample Delivery Group: 200-29296
Client Project/Site: Glen Isle Waterfront Redevelopment

For:
Posillico Consulting
1750 New Highway
Farmingdale, New York 11735

Attn: Ellis Koch

Authorized for release by:
9/30/2015 3:49:44 PM

Stephanie Sanders, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	ISTD response or retention time outside acceptable limits
H	Sample was prepped or analyzed beyond the specified holding time
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-29296-2

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: Posillico Consulting

Project: Glen Isle Waterfront Redevelopment

Report Number: 200-29296-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/15/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.8º C, 2.4º C, 2.6º C, 2.6º C, 3.2º C, 4.2º C and 4.2º C.

One or more containers for the following sample was received empty: RXR8B/-9.9--10.4/14082015 (200-29296-12). The containers in the terracore kit were not used.

No analyses were selected on the COC. These samples were logged in according to the established project methods: RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17), DUP005 (200-29296-19), TB1 (200-29296-20) and TB2 (200-29296-21).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were prepared on 08/17/2015 and analyzed on 08/26/2015, 08/27/2015 and 09/08/2015.

Internal standard responses were outside of acceptance limits for the following samples: RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[MS]) and RXR5A/-9.6--9.9/14082015 (200-29296-2[MSD]). The sample(s) shows evidence of matrix interference as confirmed in the associated MS and MSD samples.

Internal standard (ISTD) response for the following samples was outside control limits: RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8C/-10.4--10.9/14082015 (200-29296-13) and DUP005 (200-29296-19). The sample(s) was re-extracted and/or re-analyzed and both sets of data have been reported. Majority of samples, in addition to the failing samples, have a number of late eluting unknowns and a significant baseline rise is observed. This baseline rise is consistent with the presence of hydrocarbons.

Reanalysis of the following samples was performed outside of the analytical holding time due to internal standard failures in the initial analysis. : RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8C/-10.4--10.9/14082015 (200-29296-13) and DUP005 (200-29296-19).

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

The continuing calibration verification (CCV) associated with batch 200-93681 recovered above the upper control limit for 1,4-dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methylene Chloride was detected in method blank MB 200-93214/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Methylene Chloride was detected in method blank MB 200-93259/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,3-Dichlorobenzene, Methylene Chloride and sec-Butylbenzene were detected in method blank MB 200-93273/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected in method blank MB 200-93681/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

4-Bromofluorobenzene failed the surrogate recovery criteria high for RXR5B/-9.9--10.4/14082015 (200-29296-3). The data have been qualified and reported.

Carbon tetrachloride, n-Butylbenzene, sec-Butylbenzene and Tetrachloroethene failed the recovery criteria low for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 200-93214. 1,4-Dichlorobenzene failed the recovery criteria high. For the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 200-93214, Carbon tetrachloride and n-Butylbenzene failed the recovery criteria low. 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and Acetone failed the recovery criteria high. Also, Several analytes exceeded the RPD limit. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS

Samples FB001_14082015 (200-29296-1), TB1 (200-29296-20) and TB2 (200-29296-21) were analyzed for Volatile Organic Compounds in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 08/27/2015.

Methylene Chloride was detected in method blank MB 200-93257/8 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270D. The samples were prepared on 08/26/2015 and analyzed on 08/27/2015, 08/31/2015, 09/01/2015, 09/02/2015 and 09/04/2015.

Internal standard responses were outside of acceptance limits for the following samples: RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[MS]) and RXR5A/-9.6--9.9/14082015 (200-29296-2[MSD]). The sample(s) shows evidence of matrix interference. Matrix spike and matrix spike duplicate (MS/MSD) confirm matrix interference.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: RXR4A/-6.2--10.9/14082015 (200-29296-14) and DUP003 (200-29296-17). These results have been reported and qualified.

2-Fluorobiphenyl failed the surrogate recovery criteria high for LCS 460-319090/2-A. The laboratory's SOP allows one acid and/or one

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. Refer to the QC report for details.

Indeno[1,2,3-cd]pyrene failed the recovery criteria high for LCS 460-319090/2-A. A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-319220. Several analytes failed the recovery criteria low for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 460-319220. Refer to the QC report for details.

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2)[5X], RXR5B/-9.9--10.4/14082015 (200-29296-3)[2X], RXR5C/-10.4--10.9/14082015 (200-29296-4)[2X] and RXR7A/-8.7--9.9/14082015 (200-29296-8)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample FB001_14082015 (200-29296-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/18/2015 and analyzed on 09/02/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for organochlorine pesticides in accordance with 8081B. The samples were prepared on 08/27/2015 and analyzed on 08/30/2015.

The continuing calibration verification (CCV) associated with batch 319777 recovered above the upper control limit for 4,4'-DDT on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The closing continuing calibration verification (CCV) associated with batch 319777 recovered above the upper control limit for 4,4'-DDT on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria high for RXR7B/-9.9--10.4/14082015 (200-29296-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: RXR8B/-9.9--10.4/14082015 (200-29296-12). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

4,4'-DDT and 4,4'-DDT failed the recovery criteria high for LCS 460-319136/2-A. Refer to the QC report for details.

4,4'-DDT and Heptachlor failed the recovery criteria high for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-319777. 4,4'-DDT failed the recovery criteria high for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 460-319777. Refer to the QC report for details.

The following samples, MS and MSD required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[MS]), RXR5A/-9.6--9.9/14082015 (200-29296-2[MSD]), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7-

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

-9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Sample FB001_14082015 (200-29296-1) was analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081B. The samples were prepared on 08/17/2015 and analyzed on 08/31/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/25/2015 and analyzed on 09/22/2015, 09/23/2015, 09/24/2015 and 09/28/2015.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12) and RXR8C/-10.4--10.9/14082015 (200-29296-13). These results have been reported and qualified.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for DUP005 (200-29296-19). Re-analysis was performed with concurring results. The original analysis has been reported.

Surrogates Tetrachloro-m-xylene and Decachlorobiphenyl recovered low in (CCV 200-94483/4) and (CCV 200-94483/5).

DCB Decachlorobiphenyl and DCB Decachlorobiphenyl failed the surrogate recovery criteria low for MB 200-93141/1-B. Re-analysis was performed with concurring results. The original analysis has been reported. Refer to the QC report for details.

PCB-1016 and PCB-1260 failed the recovery criteria low for LCS 200-93141/2-B. Refer to the QC report for details.

PCB-1016 and PCB-1260 failed the recovery criteria high for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 200-94400. PCB-1016 and PCB-1260 failed the recovery criteria high for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 200-94400. Refer to the QC report for details.

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2)[2X], RXR7A/-8.7--9.9/14082015 (200-29296-8)[2X], RXR7B/-9.9--10.4/14082015 (200-29296-9)[10X], RXR7C/-10.4--10.9/14082015 (200-29296-10)[2X], RXR8A/-9.3--9.9/14082015 (200-29296-11)[2X], RXR8B/-9.9--10.4/14082015 (200-29296-12)[2X], RXR8C/-10.4--10.9/14082015 (200-29296-13)[4X] and DUP005 (200-29296-19)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample FB001_14082015 (200-29296-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/17/2015 and analyzed on 08/21/2015.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: FB001_14082015 (200-29296-1) and (MB 200-92796/1-A). These results have been reported and qualified.

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/26/2015 and analyzed on 08/27/2015 and 09/02/2015.

Surrogate recovery for the following sample, MS and MSD was outside control limits: RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[MS]) and RXR5A/-9.6--9.9/14082015 (200-29296-2[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Surrogate 2,4-Dichlorophenylacetic acid recovery for the following samples was outside control limits: RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12) and RXR8C/-10.4--10.9/14082015 (200-29296-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Surrogate 2,4-Dichlorophenylacetic acid recovery for the following samples was outside control limits: RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The closing continuing calibration verification (CCVC) associated with batch 319166 recovered outside the control limit for Silvex (2,4,5-TP) on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Silvex (2,4,5-TP) failed the recovery criteria low for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-319166.
Silvex (2,4,5-TP) failed the recovery criteria low for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 460-319166.
Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Sample FB001_14082015 (200-29296-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/18/2015 and analyzed on 08/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/31/2015 and analyzed on 09/02/2015.

Copper and Lead failed the recovery criteria high for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-320446.
Copper and Silver failed the recovery criteria high for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 460-320446. Refer to the QC report for details.

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2)[4X], RXR5B/-9.9--10.4/14082015 (200-29296-3)[4X], RXR5C/-10.4--10.9/14082015 (200-29296-4)[4X], RXR7A/-8.7--9.9/14082015 (200-29296-8)[4X], RXR7B/-9.9--10.4/14082015 (200-29296-9)[4X], RXR7C/-10.4--10.9/14082015 (200-29296-10)[4X], RXR8A/-9.3--9.9/14082015 (200-29296-11)[4X], RXR8B/-9.9--10.4/14082015 (200-29296-12)[4X], RXR8C/-10.4--10.9/14082015 (200-29296-13)[4X], RXR4A/-6.2--10.9/14082015 (200-29296-14)[4X], DUP003 (200-29296-17)[4X] and

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

DUP005 (200-29296-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)
Sample FB001_14082015 (200-29296-1) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/21/2015 and analyzed on 08/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM
Sample FB001_14082015 (200-29296-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 08/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY
Sample FB001_14082015 (200-29296-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY
Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 09/10/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM
Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared on 08/27/2015 and 09/03/2015 and analyzed on 08/28/2015, 08/29/2015 and 09/03/2015.

Chromium (hexavalent) and Chromium (hexavalent) failed the recovery criteria low for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-319726. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM
Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 08/31/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM
Sample FB001_14082015 (200-29296-1) was analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

were analyzed on 08/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared on 08/27/2015 and analyzed on 08/27/2015 and 08/28/2015.

Cyanide, Total failed the recovery criteria high for the MS of sample RXR5A/-9.6--9.9/14082015MS (200-29296-2) in batch 460-319510. Cyanide, Total failed the recovery criteria high for the MSD of sample RXR5A/-9.6--9.9/14082015MSD (200-29296-2) in batch 460-319510. Refer to the QC report for details.

Samples RXR7B/-9.9--10.4/14082015 (200-29296-9)[2X], RXR7C/-10.4--10.9/14082015 (200-29296-10)[2X] and DUP005 (200-29296-19) [2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample FB001_14082015 (200-29296-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/27/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 08/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND OTHER GAMMA EMITTERS

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for Radium-226 and Other Gamma Emitters in accordance with 901.1. The samples were leached on 08/25/2015, prepared on 08/27/2015 and analyzed on 09/17/2015.

Lead-212 analyzed by gamma spectroscopy was detected above the MDC in the blank. Variations in Compton backgrounds and statistical analyses allowed for small area counts in the regions of interest of this nuclide. Other Thorium decay chain products are not present in the blank to support Lead 212 identification. The data is reported. The following samples are affected: RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17), DUP005 (200-29296-19), (LCS 160-208181/2-A), (MB 160-208181/1-A),

Americium-241, Bismuth-212, Cobalt-60, Protactinium-231 and Uranium-235 exceeded the RPD limit for the duplicate of sample RXR5A/-9.6--9.9/14082015DU (200-29296-2). Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 200-29296-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

RADIUM-226 AND OTHER GAMMA EMITTERS

Sample FB001_14082015 (200-29296-1) was analyzed for Radium-226 and Other Gamma Emitters in accordance with 901.1. The samples were prepared on 08/19/2015 and analyzed on 09/09/2015.

Several analytes exceeded the RPD limit for the duplicate of sample FB001_14082015DU (200-29296-1). Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC THORIUM

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19) were analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were leached on 08/25/2015, prepared on 09/15/2015 and analyzed on 09/17/2015.

Thorium-230 was detected in method blank MB 160-211086/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[DU]), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19). The samples contain rocks.

The samples had a sandy precipitate that was in the bottom of the centrifuge tubes prior to syringe filtering. Possible matrix interference. RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5A/-9.6--9.9/14082015 (200-29296-2[DU]), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--10.9/14082015 (200-29296-13), RXR4A/-6.2--10.9/14082015 (200-29296-14), DUP003 (200-29296-17) and DUP005 (200-29296-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC THORIUM

Sample FB001_14082015 (200-29296-1) was analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were prepared on 08/20/2015 and analyzed on 08/24/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC URANIUM

Samples RXR5A/-9.6--9.9/14082015 (200-29296-2), RXR5B/-9.9--10.4/14082015 (200-29296-3), RXR5C/-10.4--10.9/14082015 (200-29296-4), RXR7A/-8.7--9.9/14082015 (200-29296-8), RXR7B/-9.9--10.4/14082015 (200-29296-9), RXR7C/-10.4--10.9/14082015 (200-29296-10), RXR8A/-9.3--9.9/14082015 (200-29296-11), RXR8B/-9.9--10.4/14082015 (200-29296-12), RXR8C/-10.4--

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: FB001_14082015 — Lab Sample ID: 200-29296-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.26	J B	1.0	0.23	ug/L	1		8260C	Total/NA
Toluene	0.65	J	1.0	0.22	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.32	J	1.0	0.21	ug/L	1		8260C	Total/NA
Xylenes, Total	0.32	J	2.0	0.21	ug/L	1		8260C	Total/NA

Client Sample ID: RXR5A/-9.6--9.9/14082015 — Lab Sample ID: 200-29296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	140	F2 F1	8.6	7.0	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	5.3	J F2 F1 *	8.6	0.19	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	61	F2	8.6	3.8	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	4.5	J F2	8.6	0.19	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	3.7	J F2	8.6	0.65	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.7	J F2	17	0.091	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	7.8	J F2 F1 *	8.6	0.65	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	120	J	3500	94	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	180	J F1	3500	90	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	120	J F1	3500	78	ug/Kg	5	☼	8270D	Total/NA
Acenaphthylene	180	J * F1	3500	91	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	110	J * F1	3500	85	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	920	J * F1	3500	94	ug/Kg	5	☼	8270D	Total/NA
Anthracene	440	J * F1	3500	340	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	3100	J *	3500	100	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1500	J F1	3500	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	950	F1	350	290	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1300	J F1	3500	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400	F1	350	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	480	F1	350	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	950	F1	350	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	690		350	230	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	260	J F1	350	180	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	600	J F1	3500	200	ug/Kg	5	☼	8270D	Total/NA
PCB-1242	840		74	6.1	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	850		74	11	ug/Kg	2	☼	8082A	Total/NA
Silver	136		4.1	0.73	mg/Kg	4	☼	6010C	Total/NA
Arsenic	51.5		6.2	2.0	mg/Kg	4	☼	6010C	Total/NA
Barium	151		82.3	2.9	mg/Kg	4	☼	6010C	Total/NA
Beryllium	1.3		0.82	0.70	mg/Kg	4	☼	6010C	Total/NA
Cadmium	24.5		1.6	0.86	mg/Kg	4	☼	6010C	Total/NA
Chromium	112		4.1	2.0	mg/Kg	4	☼	6010C	Total/NA
Copper	1230		10.3	2.7	mg/Kg	4	☼	6010C	Total/NA
Manganese	227		6.2	2.2	mg/Kg	4	☼	6010C	Total/NA
Nickel	78.1		16.5	3.0	mg/Kg	4	☼	6010C	Total/NA
Lead	621		4.1	1.6	mg/Kg	4	☼	6010C	Total/NA
Selenium	5.8	J	8.2	2.8	mg/Kg	4	☼	6010C	Total/NA
Zinc	436		12.3	3.0	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.54		0.035	0.025	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	112		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	2.2	F1	0.21	0.034	mg/Kg	1	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: RXR5B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	240	*	11	9.0	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	100	*	11	4.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.6	J *	11	0.94	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	7.1	J *	11	0.24	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	4.5	J *	11	0.12	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	4.5	J *	22	0.12	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	17	*	11	0.26	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	19	*	11	0.83	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	440		13	11	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	180		13	5.9	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	3.1	J	13	1.1	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	7.9	J	13	0.51	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene - RE	26		13	0.29	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	27		13	1.0	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	17		13	0.14	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	44		27	0.14	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	35	*	13	0.59	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	76	*	13	0.32	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	120	*	13	1.0	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	46	J	1400	38	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	180	J	1400	37	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	110	J	1400	32	ug/Kg	2	☼	8270D	Total/NA
2-Chloronaphthalene	45	J	1400	33	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	180	J	1400	37	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	190	J	1400	35	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	110	J	1400	44	ug/Kg	2	☼	8270D	Total/NA
Fluorene	280	J	1400	31	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	1700		1400	38	ug/Kg	2	☼	8270D	Total/NA
Anthracene	670	J	1400	140	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	3100		1400	43	ug/Kg	2	☼	8270D	Total/NA
Pyrene	2100		1400	65	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	1100		140	120	ug/Kg	2	☼	8270D	Total/NA
Chrysene	1400		1400	39	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400		140	56	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	1000		140	44	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	600		140	96	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	210		140	75	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	520	J	1400	83	ug/Kg	2	☼	8270D	Total/NA
PCB-1242	210	p	35	2.9	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	300		35	5.2	ug/Kg	1	☼	8082A	Total/NA
Silver	163		4.2	0.75	mg/Kg	4	☼	6010C	Total/NA
Arsenic	52.6		6.4	2.1	mg/Kg	4	☼	6010C	Total/NA
Barium	131		85.0	3.0	mg/Kg	4	☼	6010C	Total/NA
Beryllium	1.5		0.85	0.72	mg/Kg	4	☼	6010C	Total/NA
Cadmium	28.0		1.7	0.89	mg/Kg	4	☼	6010C	Total/NA
Chromium	113		4.2	2.1	mg/Kg	4	☼	6010C	Total/NA
Copper	1280		10.6	2.8	mg/Kg	4	☼	6010C	Total/NA
Manganese	222		6.4	2.2	mg/Kg	4	☼	6010C	Total/NA
Nickel	97.6		17.0	3.1	mg/Kg	4	☼	6010C	Total/NA
Lead	820		4.2	1.7	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR5B/-9.9--10.4/14082015 (Continued) — Lab Sample ID: 200-29296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	5.8	J	8.5	2.9	mg/Kg	4	☼	6010C	Total/NA
Zinc	447		12.7	3.1	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.55		0.037	0.026	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	113		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	6.8		0.21	0.033	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR5C/-10.4--10.9/14082015 — Lab Sample ID: 200-29296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	42		6.8	5.6	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	16		6.8	3.0	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.4	J	6.8	0.26	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.57	J	6.8	0.092	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	1.3	J	6.8	0.072	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.3	J	14	0.072	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.9	J	6.8	0.16	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	1.5	J	6.8	0.52	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	30	J	910	24	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	92	J	910	23	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	44	J	910	20	ug/Kg	2	☼	8270D	Total/NA
2-Chloronaphthalene	240	J	910	21	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	51	J	910	22	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	36	J	910	28	ug/Kg	2	☼	8270D	Total/NA
Fluorene	51	J	910	20	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	370	J	910	24	ug/Kg	2	☼	8270D	Total/NA
Anthracene	110	J	910	87	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	530	J	910	27	ug/Kg	2	☼	8270D	Total/NA
Pyrene	640	J	910	41	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	310		91	76	ug/Kg	2	☼	8270D	Total/NA
Chrysene	380	J	910	25	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	440		91	36	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	170		91	40	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	320		91	28	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270		91	61	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	75	J	91	47	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	250	J	910	52	ug/Kg	2	☼	8270D	Total/NA
PCB-1242	180	p	22	1.8	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	220		22	3.3	ug/Kg	1	☼	8082A	Total/NA
Silver	30.8		2.6	0.46	mg/Kg	4	☼	6010C	Total/NA
Arsenic	13.1		3.9	1.3	mg/Kg	4	☼	6010C	Total/NA
Barium	43.3	J	52.1	1.9	mg/Kg	4	☼	6010C	Total/NA
Cadmium	5.9		1.0	0.54	mg/Kg	4	☼	6010C	Total/NA
Chromium	33.8		2.6	1.3	mg/Kg	4	☼	6010C	Total/NA
Copper	230		6.5	1.7	mg/Kg	4	☼	6010C	Total/NA
Manganese	137		3.9	1.4	mg/Kg	4	☼	6010C	Total/NA
Nickel	19.7		10.4	1.9	mg/Kg	4	☼	6010C	Total/NA
Lead	147		2.6	1.0	mg/Kg	4	☼	6010C	Total/NA
Zinc	125		7.8	1.9	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.22		0.022	0.015	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	33.8		2.0	2.0	mg/Kg	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR5C/-10.4--10.9/14082015 (Continued) — Lab Sample ID: 200-29296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.35		0.14	0.023	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR7A/-8.7--9.9/14082015 — Lab Sample ID: 200-29296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		13	10	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	65		13	5.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	7.7	J	13	0.48	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	6.8	J	13	0.28	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	11	J	13	0.17	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	54		13	0.96	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	11	J	13	0.13	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	65		25	0.13	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	130	*	13	0.78	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	19	*	13	0.55	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	170	*	13	0.30	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	18	*	13	0.28	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	5.9	J *	13	0.96	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	26	*	13	0.66	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	1100	H *	7.8	6.4	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene - RE	2.7	J H *	7.8	0.67	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	400	H *	7.8	3.4	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	1.3	J H *	7.8	0.67	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	6.8	J H *	7.8	0.30	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	7.9	H *	7.8	0.11	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	15	H *	7.8	0.59	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	4.6	J H *	7.8	0.083	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	20	H *	16	0.083	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene - RE	50	H *	7.8	0.48	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene - RE	8.6	H *	7.8	0.17	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	6.8	J H *	7.8	0.59	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	190	J	1100	30	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	82	J	1100	29	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	57	J	1100	25	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	62	J	1100	29	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	120	J	1100	27	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	48	J	1100	34	ug/Kg	2	☼	8270D	Total/NA
Fluorene	100	J	1100	25	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	410	J	1100	30	ug/Kg	2	☼	8270D	Total/NA
Anthracene	200	J	1100	110	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	1800		1100	33	ug/Kg	2	☼	8270D	Total/NA
Pyrene	1000	J	1100	51	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	580		110	94	ug/Kg	2	☼	8270D	Total/NA
Chrysene	840	J	1100	31	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	950		110	44	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	330		110	49	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	530		110	34	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	350		110	75	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130		110	59	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	250	J	1100	65	ug/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR7A/-8.7--9.9/14082015 (Continued) — Lab Sample ID: 200-29296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	670		57	8.4	ug/Kg	2	☼	8082A	Total/NA
PCB-1260	270		57	8.4	ug/Kg	2	☼	8082A	Total/NA
Silver	40.6		3.1	0.54	mg/Kg	4	☼	6010C	Total/NA
Arsenic	174		4.6	1.5	mg/Kg	4	☼	6010C	Total/NA
Barium	49.7	J	61.6	2.2	mg/Kg	4	☼	6010C	Total/NA
Beryllium	0.80		0.62	0.52	mg/Kg	4	☼	6010C	Total/NA
Cadmium	9.2		1.2	0.64	mg/Kg	4	☼	6010C	Total/NA
Chromium	55.8		3.1	1.5	mg/Kg	4	☼	6010C	Total/NA
Copper	638		7.7	2.0	mg/Kg	4	☼	6010C	Total/NA
Manganese	217		4.6	1.6	mg/Kg	4	☼	6010C	Total/NA
Nickel	73.9		12.3	2.3	mg/Kg	4	☼	6010C	Total/NA
Lead	534		3.1	1.2	mg/Kg	4	☼	6010C	Total/NA
Selenium	4.5	J	6.2	2.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	487		9.2	2.3	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.45		0.026	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	55.8		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	7.6		0.16	0.026	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR7B/-9.9--10.4/14082015 — Lab Sample ID: 200-29296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5100		1300	310	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	97	J B	250	59	ug/Kg	1	☼	8260C	Total/NA
Toluene	100	J	250	54	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	160	J	250	23	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	380		250	24	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	600		250	28	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	600		510	25	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	530		250	28	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	51	J	250	51	ug/Kg	1	☼	8260C	Total/NA
tert-Butylbenzene	43	J	250	36	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	410		250	25	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	150	J	250	51	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	200	J	250	36	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	58	J	640	17	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	150	J	640	16	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	56	J	640	14	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	28	J	640	16	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	47	J	640	15	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	38	J	640	19	ug/Kg	1	☼	8270D	Total/NA
Fluorene	87	J	640	14	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	330	J	640	17	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140	J	640	61	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	840		640	19	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1000		640	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	440		64	53	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	710		64	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	280		64	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	460		64	19	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	560	*	64	42	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR7B/-9.9--10.4/14082015 (Continued) — Lab Sample ID: 200-29296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	150		64	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	530	J	640	37	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	1800		330	27	ug/Kg	10	☼	8082A	Total/NA
PCB-1254	1200		330	49	ug/Kg	10	☼	8082A	Total/NA
Silver	67.0		3.6	0.63	mg/Kg	4	☼	6010C	Total/NA
Arsenic	232		5.4	1.8	mg/Kg	4	☼	6010C	Total/NA
Barium	73.1		71.7	2.6	mg/Kg	4	☼	6010C	Total/NA
Beryllium	1.4		0.72	0.61	mg/Kg	4	☼	6010C	Total/NA
Cadmium	15.0		1.4	0.75	mg/Kg	4	☼	6010C	Total/NA
Chromium	76.2		3.6	1.7	mg/Kg	4	☼	6010C	Total/NA
Copper	899		9.0	2.3	mg/Kg	4	☼	6010C	Total/NA
Manganese	243		5.4	1.9	mg/Kg	4	☼	6010C	Total/NA
Nickel	77.2		14.3	2.6	mg/Kg	4	☼	6010C	Total/NA
Lead	1070		3.6	1.4	mg/Kg	4	☼	6010C	Total/NA
Selenium	8.0		7.2	2.5	mg/Kg	4	☼	6010C	Total/NA
Zinc	640		10.8	2.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.51		0.031	0.022	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	76.2		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.37		0.36	0.057	mg/Kg	2	☼	9012B	Total/NA

Client Sample ID: RXR7C/-10.4--10.9/14082015 — Lab Sample ID: 200-29296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		7.2	5.9	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	51		7.2	3.2	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.53	J	7.2	0.42	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.68	J	7.2	0.098	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.80	J	7.2	0.076	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.80	J	14	0.076	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	1.7	J	7.2	0.44	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	2.2	J	7.2	0.32	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	6.1	J	7.2	0.17	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	40	J	530	14	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	150	J	530	13	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	61	J	530	12	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	24	J	530	14	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	41	J	530	13	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	40	J	530	16	ug/Kg	1	☼	8270D	Total/NA
Fluorene	83	J	530	12	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270	J	530	14	ug/Kg	1	☼	8270D	Total/NA
Anthracene	82	J	530	50	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	620		530	16	ug/Kg	1	☼	8270D	Total/NA
Pyrene	890		530	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	330		53	44	ug/Kg	1	☼	8270D	Total/NA
Chrysene	400	J	530	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	660		53	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	210		53	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	380		53	16	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	420	*	53	35	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	96		53	28	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR7C/-10.4--10.9/14082015 (Continued) — Lab Sample ID: 200-29296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	400	J	530	30	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	280	p	54	4.4	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	420		54	7.9	ug/Kg	2	☼	8082A	Total/NA
Silver	58.1		3.1	0.54	mg/Kg	4	☼	6010C	Total/NA
Arsenic	154		4.6	1.5	mg/Kg	4	☼	6010C	Total/NA
Barium	60.2	J	61.3	2.2	mg/Kg	4	☼	6010C	Total/NA
Beryllium	1.0		0.61	0.52	mg/Kg	4	☼	6010C	Total/NA
Cadmium	12.8		1.2	0.64	mg/Kg	4	☼	6010C	Total/NA
Chromium	58.3		3.1	1.5	mg/Kg	4	☼	6010C	Total/NA
Copper	607		7.7	2.0	mg/Kg	4	☼	6010C	Total/NA
Manganese	198		4.6	1.6	mg/Kg	4	☼	6010C	Total/NA
Nickel	62.9		12.3	2.2	mg/Kg	4	☼	6010C	Total/NA
Lead	600		3.1	1.2	mg/Kg	4	☼	6010C	Total/NA
Selenium	5.5	J	6.1	2.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	404		9.2	2.2	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.33		0.027	0.019	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	58.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	1.1		0.30	0.049	mg/Kg	2	☼	9012B	Total/NA

Client Sample ID: RXR8A/-9.3--9.9/14082015 — Lab Sample ID: 200-29296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32		5.0	4.1	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	12		5.0	2.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J *	5.0	0.19	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	82	H *	4.7	3.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.3	J H *	4.7	0.53	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	28	H *	4.7	2.1	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.9	J H *	4.7	0.18	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	0.71	J H *	4.7	0.27	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	0.65	J H *	4.7	0.064	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	2.6	J H *	4.7	0.36	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	1.2	J H *	4.7	0.050	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	3.8	J H *	9.4	0.050	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	1.0	J H *	4.7	0.11	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	1.1	J H *	4.7	0.36	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	15	J	390	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	27	J	390	10	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	22	J	390	8.7	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	17	J	390	10	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	12	J	390	12	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	390	8.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	92	J	390	10	ug/Kg	1	☼	8270D	Total/NA
Anthracene	39	J	390	37	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	290	J	390	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	490		390	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		39	33	ug/Kg	1	☼	8270D	Total/NA
Chrysene	190	J	390	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	280		39	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	120		39	17	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR8A/-9.3--9.9/14082015 (Continued) — Lab Sample ID: 200-29296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	210		39	12	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	220	*	39	26	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	59		39	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	230	J	390	23	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	98		41	3.4	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	110	p	41	6.0	ug/Kg	2	☼	8082A	Total/NA
Silver	49.0		2.1	0.38	mg/Kg	4	☼	6010C	Total/NA
Arsenic	8.3		3.2	1.0	mg/Kg	4	☼	6010C	Total/NA
Barium	22.2	J	42.6	1.5	mg/Kg	4	☼	6010C	Total/NA
Cadmium	10.4		0.85	0.44	mg/Kg	4	☼	6010C	Total/NA
Chromium	20.2		2.1	1.0	mg/Kg	4	☼	6010C	Total/NA
Copper	175		5.3	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	85.4		3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	12.0		8.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	101		2.1	0.84	mg/Kg	4	☼	6010C	Total/NA
Zinc	86.3		6.4	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.23		0.019	0.013	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	20.2		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: RXR8B/-9.9--10.4/14082015 — Lab Sample ID: 200-29296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	43		8.5	6.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.1	J B	8.5	0.95	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	15		8.5	3.7	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J	8.5	0.32	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	1.9	J	8.5	0.19	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	8.6		8.5	0.64	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	34	J	440	11	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	27	J	440	9.8	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	14	J	440	11	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	11	J	440	11	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	16	J	440	13	ug/Kg	1	☼	8270D	Total/NA
Fluorene	20	J	440	9.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130	J	440	12	ug/Kg	1	☼	8270D	Total/NA
Anthracene	51	J	440	42	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	400	J	440	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		440	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	230		44	37	ug/Kg	1	☼	8270D	Total/NA
Chrysene	220	J	440	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	360		44	17	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	100		44	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	230		44	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270	*	44	29	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	68		44	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	280	J	440	25	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	170	p	46	3.8	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	350		46	6.7	ug/Kg	2	☼	8082A	Total/NA
Silver	58.0		2.4	0.43	mg/Kg	4	☼	6010C	Total/NA
Arsenic	16.0		3.7	1.2	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR8B/-9.9--10.4/14082015 (Continued) — Lab Sample ID: 200-29296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42.1	J	48.7	1.7	mg/Kg	4	☼	6010C	Total/NA
Cadmium	12.4		0.97	0.51	mg/Kg	4	☼	6010C	Total/NA
Chromium	30.3		2.4	1.2	mg/Kg	4	☼	6010C	Total/NA
Copper	441		6.1	1.6	mg/Kg	4	☼	6010C	Total/NA
Manganese	184		3.7	1.3	mg/Kg	4	☼	6010C	Total/NA
Nickel	19.3		9.7	1.8	mg/Kg	4	☼	6010C	Total/NA
Lead	156		2.4	0.96	mg/Kg	4	☼	6010C	Total/NA
Selenium	1.7	J	4.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Zinc	170		7.3	1.8	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.24		0.022	0.016	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	30.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.074	J	0.14	0.022	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR8C/-10.4--10.9/14082015 — Lab Sample ID: 200-29296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		6.0	4.9	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	7.1	*	6.0	0.13	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	18		6.0	2.6	ug/Kg	1	☼	8260C	Total/NA
Toluene	3.0	J	6.0	0.23	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	4.2	J	6.0	0.13	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.9	J	6.0	0.45	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	1.3	J	6.0	0.063	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	3.2	J	12	0.063	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2.4	J *	6.0	0.14	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	14	*	6.0	0.45	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	250	H *	5.8	4.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.6	J H *	5.8	0.65	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	97	H *	5.8	2.6	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	5.0	J H *	5.8	0.22	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene - RE	5.5	J H *	5.8	0.13	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	1.0	J H *	5.8	0.079	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	2.6	J H *	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	1.7	J H *	5.8	0.062	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	4.3	J H *	12	0.062	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	28	H *	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	22	J	430	11	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	18	J	430	9.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	13	J	430	11	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	87	J	430	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	280	J	430	13	ug/Kg	1	☼	8270D	Total/NA
Pyrene	410	J	430	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	160		43	36	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180	J	430	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	240		43	17	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	85		43	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	170		43	13	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210	*	43	29	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	45		43	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	190	J	430	25	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR8C/-10.4--10.9/14082015 (Continued) — Lab Sample ID: 200-29296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	310	p	83	6.9	ug/Kg	4	☼	8082A	Total/NA
PCB-1254	590		83	12	ug/Kg	4	☼	8082A	Total/NA
Silver	31.9		2.3	0.41	mg/Kg	4	☼	6010C	Total/NA
Arsenic	8.5		3.5	1.2	mg/Kg	4	☼	6010C	Total/NA
Barium	24.2	J	46.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Cadmium	6.8		0.94	0.49	mg/Kg	4	☼	6010C	Total/NA
Chromium	17.8		2.3	1.1	mg/Kg	4	☼	6010C	Total/NA
Copper	162		5.9	1.5	mg/Kg	4	☼	6010C	Total/NA
Manganese	129		3.5	1.2	mg/Kg	4	☼	6010C	Total/NA
Nickel	22.0		9.4	1.7	mg/Kg	4	☼	6010C	Total/NA
Lead	96.2		2.3	0.92	mg/Kg	4	☼	6010C	Total/NA
Zinc	177		7.0	1.7	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.30		0.021	0.015	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	17.8		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	2.4		0.12	0.019	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR4A/-6.2--10.9/14082015 — Lab Sample ID: 200-29296-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		5.3	4.3	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.4	J	5.3	0.20	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.39	J	5.3	0.31	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.22	J	5.3	0.072	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.0	J	5.3	0.40	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.32	J	5.3	0.056	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.3	J	11	0.056	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	26	J	400	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	35	J	400	18	ug/Kg	1	☼	8270D	Total/NA
Chrysene	21	J	400	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	36	J	40	16	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	18	J	40	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	36	J	40	12	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	27	J *	40	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	24	J	400	23	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	13	J p	20	1.6	ug/Kg	1	☼	8082A	Total/NA
PCB-1254	16	J	20	2.9	ug/Kg	1	☼	8082A	Total/NA
Silver	1.7	J	2.1	0.38	mg/Kg	4	☼	6010C	Total/NA
Arsenic	2.7	J	3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Barium	6.5	J	42.7	1.5	mg/Kg	4	☼	6010C	Total/NA
Chromium	9.7		2.1	1.0	mg/Kg	4	☼	6010C	Total/NA
Copper	23.9		5.3	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	37.0		3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	3.7	J	8.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	13.6		2.1	0.84	mg/Kg	4	☼	6010C	Total/NA
Zinc	25.6		6.4	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.044		0.019	0.013	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	9.7		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: DUP003 — Lab Sample ID: 200-29296-17

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP003 (Continued)

Lab Sample ID: 200-29296-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44		4.3	3.5	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	9.7		4.3	1.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.5	J	4.3	0.16	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.21	J	4.3	0.045	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.21	J	8.5	0.045	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.22	J	4.3	0.10	ug/Kg	1	☼	8260C	Total/NA
Phenanthrene	23	J	380	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	34	J	380	11	ug/Kg	1	☼	8270D	Total/NA
Pyrene	35	J	380	17	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19	J	380	10	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	31	J	38	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	34	J	38	11	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	8.1	J	20	3.0	ug/Kg	1	☼	8082A	Total/NA
Silver	0.82	J	2.0	0.34	mg/Kg	4	☼	6010C	Total/NA
Arsenic	1.8	J	2.9	0.96	mg/Kg	4	☼	6010C	Total/NA
Barium	5.6	J	39.0	1.4	mg/Kg	4	☼	6010C	Total/NA
Chromium	9.7		2.0	0.94	mg/Kg	4	☼	6010C	Total/NA
Copper	16.9		4.9	1.3	mg/Kg	4	☼	6010C	Total/NA
Manganese	36.2		2.9	1.0	mg/Kg	4	☼	6010C	Total/NA
Nickel	3.8	J	7.8	1.4	mg/Kg	4	☼	6010C	Total/NA
Lead	8.5		2.0	0.77	mg/Kg	4	☼	6010C	Total/NA
Zinc	19.1		5.9	1.4	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.026		0.019	0.014	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	9.7		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: DUP005

Lab Sample ID: 200-29296-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		7.2	5.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.82	J B	7.2	0.80	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	39		7.2	3.2	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.81	J	7.2	0.62	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.9	J	7.2	0.27	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	4.7	J	7.2	0.16	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	8.6		7.2	0.098	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	31		7.2	0.55	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	6.9	J	7.2	0.076	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	38		14	0.076	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	93	*	7.2	0.45	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	14	*	7.2	0.32	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	60	*	7.2	0.17	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	12	*	7.2	0.16	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	5.5	J *	7.2	0.55	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	15	*	7.2	0.37	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	1000	H *	9.7	7.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.2	J H	9.7	1.1	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	400	H *	9.7	4.3	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.6	J H *	9.7	0.37	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene - RE	3.6	J H *	9.7	0.21	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	5.5	J H *	9.7	0.13	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP005 (Continued) — Lab Sample ID: 200-29296-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene - RE	13	H *	9.7	0.74	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	3.6	J H *	9.7	0.10	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	17	J H *	19	0.10	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene - RE	46	H *	9.7	0.60	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	36	H *	9.7	0.23	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene - RE	6.9	J H *	9.7	0.21	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	5.1	J H *	9.7	0.74	ug/Kg	1	☼	8260C	Total/NA
Phenol	56	J	560	18	ug/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	46	J	560	15	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	27	J	560	14	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	20	J	560	12	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	20	J	560	14	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	15	J	560	13	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	20	J	560	17	ug/Kg	1	☼	8270D	Total/NA
Fluorene	22	J	560	12	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	220	J	560	15	ug/Kg	1	☼	8270D	Total/NA
Anthracene	87	J	560	53	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	640		560	17	ug/Kg	1	☼	8270D	Total/NA
Pyrene	780		560	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	360		56	47	ug/Kg	1	☼	8270D	Total/NA
Chrysene	500	J	560	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	680		56	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	240		56	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	390		56	17	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	460	*	56	37	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	120		56	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	430	J	560	32	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	450		57	4.7	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	380		57	8.4	ug/Kg	2	☼	8082A	Total/NA
Silver	14.5		3.3	0.58	mg/Kg	4	☼	6010C	Total/NA
Arsenic	43.7		4.9	1.6	mg/Kg	4	☼	6010C	Total/NA
Barium	20.0	J	65.6	2.3	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.9		1.3	0.68	mg/Kg	4	☼	6010C	Total/NA
Chromium	24.1		3.3	1.6	mg/Kg	4	☼	6010C	Total/NA
Copper	244		8.2	2.1	mg/Kg	4	☼	6010C	Total/NA
Manganese	97.5		4.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Nickel	39.1		13.1	2.4	mg/Kg	4	☼	6010C	Total/NA
Lead	172		3.3	1.3	mg/Kg	4	☼	6010C	Total/NA
Zinc	179		9.8	2.4	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.12		0.026	0.018	mg/Kg	1	☼	7471B	Total/NA
Chromium (hexavalent)	4.2		3.4	1.4	mg/Kg	1	☼	7196A	Total/NA
Cr (III)	19.8		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.92		0.33	0.053	mg/Kg	2	☼	9012B	Total/NA

Client Sample ID: TB1 — Lab Sample ID: 200-29296-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.38	J B	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: TB2 — Lab Sample ID: 200-29296-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB2 (Continued)

Lab Sample ID: 200-29296-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.7	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB001_14082015

Date Collected: 08/14/15 06:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 19:34	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 19:34	1
Acetone	5.0	U	5.0	1.7	ug/L			08/27/15 19:34	1
Methylene Chloride	**0.26**	**J B**	1.0	0.23	ug/L			08/27/15 19:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 19:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 19:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 19:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 19:34	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 19:34	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 19:34	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 19:34	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 19:34	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 19:34	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 19:34	1
Toluene	**0.65**	**J**	1.0	0.22	ug/L			08/27/15 19:34	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 19:34	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 19:34	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1
m-Xylene & p-Xylene	**0.32**	**J**	1.0	0.21	ug/L			08/27/15 19:34	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 19:34	1
Xylenes, Total	**0.32**	**J**	2.0	0.21	ug/L			08/27/15 19:34	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 19:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 19:34	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 19:34	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 19:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 19:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 19:34	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*08/27/15 19:34*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*08/27/15 19:34*	*1*
4-Bromofluorobenzene	*106*		*80 - 125*		*08/27/15 19:34*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*08/27/15 19:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	14	U	14	2.0	ug/L		08/18/15 12:14	09/02/15 10:19	1
2-Methylphenol	14	U	14	2.4	ug/L		08/18/15 12:14	09/02/15 10:19	1
3 & 4 Methylphenol	14	U	14	1.4	ug/L		08/18/15 12:14	09/02/15 10:19	1
Naphthalene	14	U	14	1.8	ug/L		08/18/15 12:14	09/02/15 10:19	1
2-Methylnaphthalene	14	U	14	1.5	ug/L		08/18/15 12:14	09/02/15 10:19	1
2-Chloronaphthalene	14	U	14	1.8	ug/L		08/18/15 12:14	09/02/15 10:19	1
Acenaphthylene	14	U	14	1.2	ug/L		08/18/15 12:14	09/02/15 10:19	1
Acenaphthene	14	U	14	1.2	ug/L		08/18/15 12:14	09/02/15 10:19	1
Dibenzofuran	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1

Client Sample ID: FB001_14082015
Date Collected: 08/14/15 06:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1
Hexachlorobenzene	14	U	14	1.4	ug/L		08/18/15 12:14	09/02/15 10:19	1
Pentachlorophenol	34	U	34	16	ug/L		08/18/15 12:14	09/02/15 10:19	1
Phenanthrene	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1
Anthracene	14	U	14	1.9	ug/L		08/18/15 12:14	09/02/15 10:19	1
Fluoranthene	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1
Pyrene	14	U	14	2.0	ug/L		08/18/15 12:14	09/02/15 10:19	1
Benzo[a]anthracene	14	U	14	1.8	ug/L		08/18/15 12:14	09/02/15 10:19	1
Chrysene	14	U	14	1.9	ug/L		08/18/15 12:14	09/02/15 10:19	1
Benzo[b]fluoranthene	14	U	14	2.7	ug/L		08/18/15 12:14	09/02/15 10:19	1
Benzo[k]fluoranthene	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1
Benzo[a]pyrene	14	U	14	1.2	ug/L		08/18/15 12:14	09/02/15 10:19	1
Indeno[1,2,3-cd]pyrene	14	U	14	1.2	ug/L		08/18/15 12:14	09/02/15 10:19	1
Dibenz(a,h)anthracene	14	U	14	1.6	ug/L		08/18/15 12:14	09/02/15 10:19	1
Benzo[g,h,i]perylene	14	U	14	1.8	ug/L		08/18/15 12:14	09/02/15 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*45 - 115*	*08/18/15 12:14*	*09/02/15 10:19*	*1*
Terphenyl-d14 (Surr)	*99*		*35 - 140*	*08/18/15 12:14*	*09/02/15 10:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.055	U	0.055	0.0018	ug/L		08/17/15 09:13	08/31/15 21:52	1
gamma-BHC (Lindane)	0.055	U	0.055	0.0011	ug/L		08/17/15 09:13	08/31/15 21:52	1
beta-BHC	0.055	U	0.055	0.012	ug/L		08/17/15 09:13	08/31/15 21:52	1
delta-BHC	0.055	U	0.055	0.0016	ug/L		08/17/15 09:13	08/31/15 21:52	1
Heptachlor	0.055	U	0.055	0.0014	ug/L		08/17/15 09:13	08/31/15 21:52	1
Aldrin	0.055	U	0.055	0.0010	ug/L		08/17/15 09:13	08/31/15 21:52	1
gamma-Chlordane	0.055	U	0.055	0.0012	ug/L		08/17/15 09:13	08/31/15 21:52	1
alpha-Chlordane	0.055	U	0.055	0.0011	ug/L		08/17/15 09:13	08/31/15 21:52	1
4,4'-DDE	0.055	U	0.055	0.0018	ug/L		08/17/15 09:13	08/31/15 21:52	1
Endosulfan I	0.055	U	0.055	0.00095	ug/L		08/17/15 09:13	08/31/15 21:52	1
Dieldrin	0.055	U	0.055	0.0018	ug/L		08/17/15 09:13	08/31/15 21:52	1
Endrin	0.055	U	0.055	0.0024	ug/L		08/17/15 09:13	08/31/15 21:52	1
4,4'-DDD	0.055	U	0.055	0.0014	ug/L		08/17/15 09:13	08/31/15 21:52	1
Endosulfan II	0.055	U	0.055	0.0018	ug/L		08/17/15 09:13	08/31/15 21:52	1
4,4'-DDT	0.055	U	0.055	0.0029	ug/L		08/17/15 09:13	08/31/15 21:52	1
Endosulfan sulfate	0.055	U	0.055	0.0019	ug/L		08/17/15 09:13	08/31/15 21:52	1
Chlordane (technical)	0.55	U	0.55	0.0045	ug/L		08/17/15 09:13	08/31/15 21:52	1
Mirex	0.11	U	0.11	0.11	ug/L		08/17/15 09:13	08/31/15 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*50 - 120*	*08/17/15 09:13*	*08/31/15 21:52*	*1*
Tetrachloro-m-xylene	*86*		*50 - 120*	*08/17/15 09:13*	*08/31/15 21:52*	*1*
DCB Decachlorobiphenyl	*63*		*45 - 115*	*08/17/15 09:13*	*08/31/15 21:52*	*1*
DCB Decachlorobiphenyl	*61*		*45 - 115*	*08/17/15 09:13*	*08/31/15 21:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.51	U	0.51	0.058	ug/L		08/17/15 09:09	08/21/15 09:25	1

Client Sample ID: FB001_14082015
Date Collected: 08/14/15 06:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-1
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.51	U	0.51	0.058	ug/L		08/17/15 09:09	08/21/15 09:25	1
PCB-1232	0.51	U	0.51	0.058	ug/L		08/17/15 09:09	08/21/15 09:25	1
PCB-1242	0.51	U	0.51	0.058	ug/L		08/17/15 09:09	08/21/15 09:25	1
PCB-1248	0.51	U	0.51	0.058	ug/L		08/17/15 09:09	08/21/15 09:25	1
PCB-1254	0.51	U	0.51	0.024	ug/L		08/17/15 09:09	08/21/15 09:25	1
PCB-1260	0.51	U	0.51	0.024	ug/L		08/17/15 09:09	08/21/15 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*55 - 120*	*08/17/15 09:09*	*08/21/15 09:25*	*1*
Tetrachloro-m-xylene	*61*		*55 - 120*	*08/17/15 09:09*	*08/21/15 09:25*	*1*
DCB Decachlorobiphenyl	*22*	*X*	*30 - 150*	*08/17/15 09:09*	*08/21/15 09:25*	*1*
DCB Decachlorobiphenyl	*21*	*X*	*30 - 150*	*08/17/15 09:09*	*08/21/15 09:25*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.71	U	0.71	0.13	ug/L		08/18/15 11:10	08/19/15 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*102*		*44 - 150*	*08/18/15 11:10*	*08/19/15 13:49*	*1*
2,4-Dichlorophenylacetic acid	*89*		*44 - 150*	*08/18/15 11:10*	*08/19/15 13:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/21/15 09:50	08/25/15 18:58	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/21/15 09:50	08/25/15 18:58	1
Barium	200	U	200	5.5	ug/L		08/21/15 09:50	08/25/15 18:58	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/21/15 09:50	08/25/15 18:58	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/21/15 09:50	08/25/15 18:58	1
Chromium	10.0	U	10.0	4.5	ug/L		08/21/15 09:50	08/25/15 18:58	1
Copper	25.0	U	25.0	5.0	ug/L		08/21/15 09:50	08/25/15 18:58	1
Manganese	15.0	U	15.0	4.9	ug/L		08/21/15 09:50	08/25/15 18:58	1
Nickel	40.0	U	40.0	5.4	ug/L		08/21/15 09:50	08/25/15 18:58	1
Lead	10.0	U	10.0	4.2	ug/L		08/21/15 09:50	08/25/15 18:58	1
Selenium	20.0	U	20.0	6.8	ug/L		08/21/15 09:50	08/25/15 18:58	1
Zinc	30.0	U	30.0	5.9	ug/L		08/21/15 09:50	08/25/15 18:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/20/15 05:22	08/20/15 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U	10.0	4.9	ug/L			08/14/15 19:03	1
Cr (III)	10.0	U	10.0	10.0	ug/L			08/17/15 17:31	1
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:46	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**108**		29.4	31.3	30.2	pCi/L	08/19/15 17:11	09/09/15 09:22	1

Client Sample ID: FB001_14082015
Date Collected: 08/14/15 06:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-1
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	**221**		148	154	212	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Uranium-238	16.2	U	91.6	91.6	246	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Radium-228	15.7	U	14.1	14.2	39.4	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Bismuth-214	**108**		29.4	31.3	30.2	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Actinium-228	15.7	U	14.1	14.2	39.4	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Bismuth-212	0.830	U	70.1	70.1	132	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Lead-212	-3.80	U	20.5	20.5	23.4	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Lead-214	**64.2**		21.2	22.3	25.5	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Potassium-40	20.7	U	100	100	208	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Protactinium-234m	326	U	767	768	1350	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Protactinium-231	22.2	U	78.2	78.3	286	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Thallium-208	-1.80	U	15.3	15.3	14.5	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Thorium-234	16.2	U	91.6	91.6	246	pCi/L	08/19/15 17:11	09/09/15 09:22	1
Uranium-235	12.2	U	35.2	35.2	63.8	pCi/L	08/19/15 17:11	09/09/15 09:22	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.0524	U	0.0908	0.0909	0.164	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-230	**0.235**		0.135	0.137	0.124	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-232	0.0130	U	0.0358	0.0359	0.0841	pCi/L	08/20/15 08:50	08/24/15 14:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.6*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:54*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.0270	U	0.0660	0.0661	0.135	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-235/236	0.000	U	0.0112	0.0112	0.0671	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-238	0.0448	U	0.0750	0.0751	0.135	pCi/L	08/20/15 08:50	08/24/15 14:57	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*80.9*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**123.7**	**G**	32.606	34.370	39.4	pCi/L		09/21/15 22:06	1

Client Sample ID: RXR5A/-9.6--9.9/14082015
Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2
Matrix: Solid
Percent Solids: 46.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.6	U F2	8.6	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,1-Dichloroethene	8.6	U F2	8.6	0.48	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Acetone	**140**	**F2 F1**	8.6	7.0	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Methylene Chloride	8.6	U F2	8.6	0.96	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
trans-1,2-Dichloroethene	8.6	U F2	8.6	0.14	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Methyl tert-butyl ether	8.6	U F2	8.6	0.58	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,3-Dichlorobenzene	**5.3**	**J F2 F1 ***	8.6	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,1-Dichloroethane	8.6	U F2	8.6	0.77	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
cis-1,2-Dichloroethene	8.6	U F2	8.6	0.74	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
2-Butanone (MEK)	**61**	**F2**	8.6	3.8	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Chloroform	8.6	U F2	8.6	0.75	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,1,1-Trichloroethane	8.6	U F2	8.6	0.53	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Carbon tetrachloride	8.6	U F2 F1	8.6	0.093	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Benzene	8.6	U F2	8.6	0.74	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,2-Dichloroethane	8.6	U F2	8.6	1.5	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Trichloroethene	8.6	U F2	8.6	0.98	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,4-Dioxane	170	U F2	170	24	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Toluene	8.6	U F2	8.6	0.33	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Tetrachloroethene	8.6	U F2 F1	8.6	0.50	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Chlorobenzene	**4.5**	**J F2**	8.6	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Ethylbenzene	8.6	U F2	8.6	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
m-Xylene & p-Xylene	**3.7**	**J F2**	8.6	0.65	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
o-Xylene	8.6	U F2	8.6	0.091	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
Xylenes, Total	**3.7**	**J F2**	17	0.091	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
N-Propylbenzene	8.6	U F2 *	8.6	0.53	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,3,5-Trimethylbenzene	8.6	U F2 *	8.6	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
tert-Butylbenzene	8.6	U F2 *	8.6	0.43	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,2,4-Trimethylbenzene	8.6	U F2 *	8.6	0.21	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
sec-Butylbenzene	8.6	U F2 F1 *	8.6	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,4-Dichlorobenzene	**7.8**	**J F2 F1 ***	8.6	0.65	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
1,2-Dichlorobenzene	8.6	U F2 *	8.6	0.22	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1
n-Butylbenzene	8.6	U F2 F1 *	8.6	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*35 - 145*	*08/17/15 15:42*	*08/26/15 18:10*	*1*
Toluene-d8 (Surr)	*118*		*40 - 175*	*08/17/15 15:42*	*08/26/15 18:10*	*1*
4-Bromofluorobenzene	*154*		*30 - 200*	*08/17/15 15:42*	*08/26/15 18:10*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*08/17/15 15:42*	*08/26/15 18:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	3500	U F1	3500	120	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
2-Methylphenol	3500	U F1	3500	150	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
3 & 4 Methylphenol	**120**	**J**	3500	94	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Naphthalene	**180**	**J F1**	3500	90	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
2-Methylnaphthalene	**120**	**J F1**	3500	78	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
2-Chloronaphthalene	3500	U * F1	3500	80	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Acenaphthylene	**180**	**J * F1**	3500	91	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Acenaphthene	**110**	**J * F1**	3500	85	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Dibenzofuran	3500	U * F1	3500	110	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5

Client Sample ID: RXR5A/-9.6--9.9/14082015
Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2
Matrix: Solid
Percent Solids: 46.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	3500	U * F1	3500	77	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Hexachlorobenzene	350	U * F1	350	140	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Pentachlorophenol	2800	U *	2800	430	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Phenanthrene	**920**	**J * F1**	3500	94	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Anthracene	**440**	**J * F1**	3500	340	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Fluoranthene	**3100**	**J ***	3500	100	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Pyrene	**1500**	**J F1**	3500	160	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Benzo[a]anthracene	**950**	**F1**	350	290	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Chrysene	**1300**	**J F1**	3500	96	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Benzo[b]fluoranthene	**1400**	**F1**	350	140	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Benzo[k]fluoranthene	**480**	**F1**	350	150	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Benzo[a]pyrene	**950**	**F1**	350	110	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Indeno[1,2,3-cd]pyrene	**690**		350	230	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Dibenz(a,h)anthracene	**260**	**J F1**	350	180	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5
Benzo[g,h,i]perylene	**600**	**J F1**	3500	200	ug/Kg	☼	08/26/15 08:36	08/27/15 22:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*28 - 92*	*08/26/15 08:36*	*08/27/15 22:40*	*5*
2-Fluorobiphenyl	*79*	*	*27 - 84*	*08/26/15 08:36*	*08/27/15 22:40*	*5*
Terphenyl-d14 (Surr)	*45*		*16 - 114*	*08/26/15 08:36*	*08/27/15 22:40*	*5*
2,4,6-Tribromophenol (Surr)	*62*	*	*10 - 95*	*08/26/15 08:36*	*08/27/15 22:40*	*5*
2-Fluorophenol (Surr)	*67*		*21 - 84*	*08/26/15 08:36*	*08/27/15 22:40*	*5*
Phenol-d5 (Surr)	*61*		*22 - 88*	*08/26/15 08:36*	*08/27/15 22:40*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	4.3	U	4.3	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
gamma-BHC (Lindane)	4.3	U	4.3	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
beta-BHC	4.3	U	4.3	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
delta-BHC	4.3	U	4.3	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Heptachlor	14	U	14	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Aldrin	14	U	14	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
gamma-Chlordane	14	U	14	3.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
alpha-Chlordane	14	U	14	2.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
4,4'-DDE	14	U	14	2.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Endosulfan I	14	U	14	2.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Dieldrin	4.3	U	4.3	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Endrin	14	U	14	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
4,4'-DDD	14	U	14	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Endosulfan II	14	U	14	2.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
4,4'-DDT	14	U F1	14	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Endosulfan sulfate	14	U	14	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Chlordane (technical)	140	U	140	63	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1
Mirex	14	U	14	2.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:02*	*1*
Tetrachloro-m-xylene	*118*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:02*	*1*
DCB Decachlorobiphenyl	*119*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:02*	*1*
DCB Decachlorobiphenyl	*116*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:02*	*1*

Client Sample ID: RXR5A/-9.6--9.9/14082015

Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2

Matrix: Solid
Percent Solids: 46.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	74	U * F1	74	6.1	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1221	74	U	74	6.1	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1232	74	U	74	6.1	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1242	**840**		74	6.1	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1248	74	U	74	6.1	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1254	**850**		74	11	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2
PCB-1260	74	U * F1	74	11	ug/Kg	☼	08/25/15 10:45	09/23/15 15:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*30 - 130*	*08/25/15 10:45*	*09/23/15 15:15*	*2*
Tetrachloro-m-xylene	*51*		*30 - 130*	*08/25/15 10:45*	*09/23/15 15:15*	*2*
DCB Decachlorobiphenyl	*59*		*45 - 125*	*08/25/15 10:45*	*09/23/15 15:15*	*2*
DCB Decachlorobiphenyl	*60*		*45 - 125*	*08/25/15 10:45*	*09/23/15 15:15*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	36	U F1	36	24	ug/Kg	☼	08/26/15 11:22	08/27/15 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*838*	*p X*	*83 - 150*	*08/26/15 11:22*	*08/27/15 09:48*	*1*
2,4-Dichlorophenylacetic acid	*3947*	*X*	*83 - 150*	*08/26/15 11:22*	*08/27/15 09:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**136**		4.1	0.73	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Arsenic	**51.5**		6.2	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Barium	**151**		82.3	2.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Beryllium	**1.3**		0.82	0.70	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Cadmium	**24.5**		1.6	0.86	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Chromium	**112**		4.1	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Copper	**1230**		10.3	2.7	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Manganese	**227**		6.2	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Nickel	**78.1**		16.5	3.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Lead	**621**		4.1	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Selenium	**5.8**	**J**	8.2	2.8	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4
Zinc	**436**		12.3	3.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:28	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.54**		0.035	0.025	mg/Kg	☼	09/10/15 04:38	09/10/15 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	4.3	U F1	4.3	1.7	mg/Kg	☼	08/27/15 11:00	08/28/15 18:17	1
Chromium (hexavalent)	4.3	U F1	4.3	1.7	mg/Kg	☼	08/27/15 11:00	08/29/15 17:59	1
Cr (III)	**112**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**2.2**	**F1**	0.21	0.034	mg/Kg	☼	08/27/15 13:30	08/28/15 12:33	1
Percent Solids	**46.8**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR5A/-9.6--9.9/14082015
Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2
Matrix: Solid
Percent Solids: 46.8

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.830**		0.239	0.253	0.299	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Bismuth-212	0.169	U	0.878	0.878	1.58	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Bismuth-214	**1.18**		0.233	0.263	0.113	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Lead-210	1.80	U	1.79	1.81	2.61	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Lead-212	**1.49**		0.191	0.272	0.142	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Lead-214	**0.913**		0.195	0.216	0.178	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Potassium-40	**9.87**		2.02	2.26	1.59	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Protactinium-231	0.655	U	1.12	1.12	2.42	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Radium-226	**1.18**		0.233	0.263	0.113	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Radium-228	**0.830**		0.239	0.253	0.299	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Thallium-208	**0.416**		0.103	0.111	0.0755	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Thorium-234	1.92	U	0.586	0.620	2.24	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Uranium-235	0.139	U	0.233	0.234	0.495	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Uranium-238	1.92	U	0.586	0.620	2.24	pCi/g	08/27/15 10:12	09/17/15 10:20	1
Protactinium-234m	4.05	U	9.71	9.72	17.0	pCi/g	08/27/15 10:12	09/17/15 10:20	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.999**		0.212	0.228	0.0816	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**1.66**		0.274	0.308	0.106	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**1.13**		0.225	0.244	0.0781	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*86.7*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.41**		0.255	0.281	0.0894	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.169**		0.0974	0.0985	0.0422	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**1.28**		0.241	0.264	0.0730	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.9*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**2.01**		0.334	0.372	0.299	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR5B/-9.9--10.4/14082015
Date Collected: 08/14/15 09:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-3
Matrix: Solid
Percent Solids: 45.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	11	U *	11	1.4	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,1-Dichloroethene	11	U *	11	0.61	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Acetone	**240**	*	11	9.0	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Methylene Chloride	11	U *	11	1.2	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
trans-1,2-Dichloroethene	11	U *	11	0.18	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Methyl tert-butyl ether	11	U *	11	0.75	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,3-Dichlorobenzene	11	U *	11	0.24	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,1-Dichloroethane	11	U *	11	0.99	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
cis-1,2-Dichloroethene	11	U *	11	0.94	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
2-Butanone (MEK)	**100**	*	11	4.8	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Chloroform	11	U *	11	0.97	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,1,1-Trichloroethane	11	U *	11	0.68	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Carbon tetrachloride	11	U *	11	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Benzene	**1.6**	**J ***	11	0.94	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,2-Dichloroethane	11	U *	11	1.9	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Trichloroethene	11	U *	11	1.3	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,4-Dioxane	220	U *	220	31	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Toluene	11	U *	11	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Tetrachloroethene	11	U *	11	0.64	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Chlorobenzene	**7.1**	**J ***	11	0.24	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Ethylbenzene	11	U *	11	0.15	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
m-Xylene & p-Xylene	11	U *	11	0.83	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
o-Xylene	**4.5**	**J ***	11	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
Xylenes, Total	**4.5**	**J ***	22	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
N-Propylbenzene	11	U *	11	0.68	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,3,5-Trimethylbenzene	11	U *	11	0.48	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
tert-Butylbenzene	11	U *	11	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,2,4-Trimethylbenzene	**17**	*	11	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
sec-Butylbenzene	11	U *	11	0.24	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,4-Dichlorobenzene	**19**	*	11	0.83	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
1,2-Dichlorobenzene	11	U *	11	0.29	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1
n-Butylbenzene	11	U *	11	0.57	ug/Kg	☼	08/17/15 15:42	08/26/15 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*35 - 145*	*08/17/15 15:42*	*08/26/15 23:49*	*1*
Toluene-d8 (Surr)	*143*		*40 - 175*	*08/17/15 15:42*	*08/26/15 23:49*	*1*
4-Bromofluorobenzene	*163*		*30 - 200*	*08/17/15 15:42*	*08/26/15 23:49*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/17/15 15:42*	*08/26/15 23:49*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	13	U	13	1.8	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,1-Dichloroethene	13	U	13	0.75	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Acetone	**440**		13	11	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Methylene Chloride	13	U	13	1.5	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
trans-1,2-Dichloroethene	13	U	13	0.22	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Methyl tert-butyl ether	13	U	13	0.91	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,3-Dichlorobenzene	13	U *	13	0.29	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,1-Dichloroethane	13	U	13	1.2	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
cis-1,2-Dichloroethene	13	U	13	1.1	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1

Client Sample ID: RXR5B/-9.9--10.4/14082015
Date Collected: 08/14/15 09:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-3
Matrix: Solid
Percent Solids: 45.7

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**180**		13	5.9	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Chloroform	13	U	13	1.2	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,1,1-Trichloroethane	13	U	13	0.83	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Carbon tetrachloride	13	U	13	0.14	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Benzene	**3.1**	**J**	13	1.1	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,2-Dichloroethane	13	U	13	2.3	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Trichloroethene	13	U	13	1.5	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,4-Dioxane	270	U	270	37	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Toluene	**7.9**	**J**	13	0.51	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Tetrachloroethene	13	U	13	0.78	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Chlorobenzene	**26**		13	0.29	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Ethylbenzene	13	U	13	0.18	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
m-Xylene & p-Xylene	**27**		13	1.0	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
o-Xylene	**17**		13	0.14	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
Xylenes, Total	**44**		27	0.14	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
N-Propylbenzene	13	U *	13	0.83	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,3,5-Trimethylbenzene	**35**	*****	13	0.59	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
tert-Butylbenzene	13	U *	13	0.67	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,2,4-Trimethylbenzene	**76**	*****	13	0.32	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
sec-Butylbenzene	13	U *	13	0.29	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,4-Dichlorobenzene	**120**	*****	13	1.0	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
1,2-Dichlorobenzene	13	U *	13	0.35	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1
n-Butylbenzene	13	U *	13	0.70	ug/Kg	☼	08/17/15 14:55	08/27/15 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*35 - 145*	*08/17/15 14:55*	*08/27/15 17:34*	*1*
Toluene-d8 (Surr)	*137*		*40 - 175*	*08/17/15 14:55*	*08/27/15 17:34*	*1*
4-Bromofluorobenzene	*203*	*X*	*30 - 200*	*08/17/15 14:55*	*08/27/15 17:34*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/17/15 14:55*	*08/27/15 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1400	U	1400	47	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
2-Methylphenol	1400	U	1400	63	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
3 & 4 Methylphenol	**46**	**J**	1400	38	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Naphthalene	**180**	**J**	1400	37	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
2-Methylnaphthalene	**110**	**J**	1400	32	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
2-Chloronaphthalene	**45**	**J**	1400	33	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Acenaphthylene	**180**	**J**	1400	37	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Acenaphthene	**190**	**J**	1400	35	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Dibenzofuran	**110**	**J**	1400	44	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Fluorene	**280**	**J**	1400	31	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Hexachlorobenzene	140	U	140	58	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Pentachlorophenol	1200	U	1200	170	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Phenanthrene	**1700**		1400	38	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Anthracene	**670**	**J**	1400	140	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Fluoranthene	**3100**		1400	43	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Pyrene	**2100**		1400	65	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Benzo[a]anthracene	**1100**		140	120	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Chrysene	**1400**		1400	39	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2

Client Sample ID: RXR5B/-9.9--10.4/14082015
Date Collected: 08/14/15 09:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-3
Matrix: Solid
Percent Solids: 45.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**1400**		140	56	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Benzo[k]fluoranthene	140	U	140	63	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Benzo[a]pyrene	**1000**		140	44	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Indeno[1,2,3-cd]pyrene	**600**		140	96	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Dibenz(a,h)anthracene	**210**		140	75	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2
Benzo[g,h,i]perylene	**520**	**J**	1400	83	ug/Kg	☼	08/26/15 08:36	09/04/15 17:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*48*		*28 - 92*	*08/26/15 08:36*	*09/04/15 17:00*	*2*
2-Fluorobiphenyl	*52*		*27 - 84*	*08/26/15 08:36*	*09/04/15 17:00*	*2*
Terphenyl-d14 (Surr)	*39*		*16 - 114*	*08/26/15 08:36*	*09/04/15 17:00*	*2*
2,4,6-Tribromophenol (Surr)	*55*		*10 - 95*	*08/26/15 08:36*	*09/04/15 17:00*	*2*
2-Fluorophenol (Surr)	*46*		*21 - 84*	*08/26/15 08:36*	*09/04/15 17:00*	*2*
Phenol-d5 (Surr)	*44*		*22 - 88*	*08/26/15 08:36*	*09/04/15 17:00*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	4.4	U	4.4	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
gamma-BHC (Lindane)	4.4	U	4.4	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
beta-BHC	4.4	U	4.4	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
delta-BHC	4.4	U	4.4	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Heptachlor	15	U	15	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Aldrin	15	U	15	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
gamma-Chlordane	15	U	15	3.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
alpha-Chlordane	15	U	15	2.4	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
4,4'-DDE	15	U	15	2.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Endosulfan I	15	U	15	2.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Dieldrin	4.4	U	4.4	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Endrin	15	U	15	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
4,4'-DDD	15	U	15	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Endosulfan II	15	U	15	2.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
4,4'-DDT	15	U	15	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Endosulfan sulfate	15	U	15	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Chlordane (technical)	150	U	150	65	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1
Mirex	15	U	15	2.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:15*	*1*
Tetrachloro-m-xylene	*103*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:15*	*1*
DCB Decachlorobiphenyl	*106*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:15*	*1*
DCB Decachlorobiphenyl	*103*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	35	U *	35	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1
PCB-1221	35	U	35	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1
PCB-1232	35	U	35	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1
PCB-1242	**210**	**p**	35	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1
PCB-1248	35	U	35	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1
PCB-1254	**300**		35	5.2	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1

Client Sample ID: RXR5B/-9.9--10.4/14082015
Date Collected: 08/14/15 09:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-3
Matrix: Solid
Percent Solids: 45.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	35	U *	35	5.2	ug/Kg	☼	08/25/15 10:45	09/22/15 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*36*		*30 - 130*	*08/25/15 10:45*	*09/22/15 16:46*	*1*
Tetrachloro-m-xylene	*33*		*30 - 130*	*08/25/15 10:45*	*09/22/15 16:46*	*1*
DCB Decachlorobiphenyl	*34*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 16:46*	*1*
DCB Decachlorobiphenyl	*33*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 16:46*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	37	U	37	25	ug/Kg	☼	08/26/15 11:22	09/02/15 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*223*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:00*	*1*
2,4-Dichlorophenylacetic acid	*457*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**163**		4.2	0.75	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Arsenic	**52.6**		6.4	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Barium	**131**		85.0	3.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Beryllium	**1.5**		0.85	0.72	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Cadmium	**28.0**		1.7	0.89	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Chromium	**113**		4.2	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Copper	**1280**		10.6	2.8	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Manganese	**222**		6.4	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Nickel	**97.6**		17.0	3.1	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Lead	**820**		4.2	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Selenium	**5.8**	**J**	8.5	2.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4
Zinc	**447**		12.7	3.1	mg/Kg	☼	08/31/15 07:54	09/02/15 22:46	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.55**		0.037	0.026	mg/Kg	☼	09/10/15 05:11	09/10/15 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	4.4	U	4.4	1.8	mg/Kg	☼	08/27/15 11:00	08/28/15 18:17	1
Chromium (hexavalent)	4.4	U	4.4	1.8	mg/Kg	☼	08/27/15 11:00	08/29/15 17:59	1
Cr (III)	**113**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**6.8**		0.21	0.033	mg/Kg	☼	08/27/15 13:30	08/27/15 19:20	1
Percent Solids	**45.7**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.578**		0.276	0.282	0.345	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Bismuth-212	0.508	U	0.912	0.914	1.56	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Bismuth-214	**0.731**		0.239	0.251	0.245	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Lead-210	2.87	U	2.63	2.65	3.67	pCi/g	08/27/15 10:12	09/17/15 10:25	1

Client Sample ID: RXR5B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-3

Date Collected: 08/14/15 09:25
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 45.7

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**1.08**		0.235	0.274	0.241	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Lead-214	**0.991**		0.225	0.247	0.253	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Potassium-40	**11.7**		2.19	2.49	1.50	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Protactinium-231	1.06	U	0.692	0.702	3.30	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Radium-226	**0.731**		0.239	0.251	0.245	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Radium-228	**0.578**		0.276	0.282	0.345	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Thallium-208	**0.300**		0.106	0.110	0.104	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Thorium-234	0.964	U	0.778	0.784	3.17	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Uranium-235	0.294	U	0.343	0.345	0.640	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Uranium-238	0.964	U	0.778	0.784	3.17	pCi/g	08/27/15 10:12	09/17/15 10:25	1
Protactinium-234m	-1.60	U	9.51	9.51	17.4	pCi/g	08/27/15 10:12	09/17/15 10:25	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.704**		0.170	0.180	0.0718	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**1.26**		0.228	0.251	0.0830	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.662**		0.163	0.173	0.0458	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*100*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.19**		0.233	0.254	0.114	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.0851**		0.0727	0.0731	0.0831	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.997**		0.215	0.231	0.117	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.3*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.309**		0.365	0.378	0.345	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR5C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-4

Date Collected: 08/14/15 09:35
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 72.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.8	U	6.8	0.90	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,1-Dichloroethene	6.8	U	6.8	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1

Client Sample ID: RXR5C/-10.4--10.9/14082015
Date Collected: 08/14/15 09:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-4
Matrix: Solid
Percent Solids: 72.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**42**		6.8	5.6	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Methylene Chloride	6.8	U	6.8	0.76	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
trans-1,2-Dichloroethene	6.8	U	6.8	0.11	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Methyl tert-butyl ether	6.8	U	6.8	0.46	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,3-Dichlorobenzene	6.8	U	6.8	0.15	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,1-Dichloroethane	6.8	U	6.8	0.61	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
cis-1,2-Dichloroethene	6.8	U	6.8	0.58	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
2-Butanone (MEK)	**16**		6.8	3.0	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Chloroform	6.8	U	6.8	0.60	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,1,1-Trichloroethane	6.8	U	6.8	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Carbon tetrachloride	6.8	U	6.8	0.073	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Benzene	6.8	U	6.8	0.58	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,2-Dichloroethane	6.8	U	6.8	1.2	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Trichloroethene	6.8	U	6.8	0.77	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,4-Dioxane	140	U	140	19	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Toluene	**2.4**	**J**	6.8	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Tetrachloroethene	6.8	U	6.8	0.39	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Chlorobenzene	6.8	U	6.8	0.15	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Ethylbenzene	**0.57**	**J**	6.8	0.092	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
m-Xylene & p-Xylene	6.8	U	6.8	0.52	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
o-Xylene	**1.3**	**J**	6.8	0.072	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
Xylenes, Total	**1.3**	**J**	14	0.072	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
N-Propylbenzene	6.8	U	6.8	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,3,5-Trimethylbenzene	6.8	U	6.8	0.30	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
tert-Butylbenzene	6.8	U	6.8	0.34	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,2,4-Trimethylbenzene	**2.9**	**J**	6.8	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
sec-Butylbenzene	6.8	U	6.8	0.15	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,4-Dichlorobenzene	**1.5**	**J**	6.8	0.52	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
1,2-Dichlorobenzene	6.8	U	6.8	0.18	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1
n-Butylbenzene	6.8	U	6.8	0.35	ug/Kg	☼	08/17/15 15:42	08/26/15 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*35 - 145*	*08/17/15 15:42*	*08/26/15 18:41*	*1*
Toluene-d8 (Surr)	*114*		*40 - 175*	*08/17/15 15:42*	*08/26/15 18:41*	*1*
4-Bromofluorobenzene	*121*		*30 - 200*	*08/17/15 15:42*	*08/26/15 18:41*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*	*08/17/15 15:42*	*08/26/15 18:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	910	U	910	30	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
2-Methylphenol	910	U	910	40	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
3 & 4 Methylphenol	**30**	**J**	910	24	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Naphthalene	**92**	**J**	910	23	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
2-Methylnaphthalene	**44**	**J**	910	20	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
2-Chloronaphthalene	**240**	**J**	910	21	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Acenaphthylene	910	U	910	23	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Acenaphthene	**51**	**J**	910	22	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Dibenzofuran	**36**	**J**	910	28	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Fluorene	**51**	**J**	910	20	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Hexachlorobenzene	91	U	91	37	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2

Client Sample ID: RXR5C/-10.4--10.9/14082015
Date Collected: 08/14/15 09:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-4
Matrix: Solid
Percent Solids: 72.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	730	U	730	110	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Phenanthrene	**370**	**J**	910	24	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Anthracene	**110**	**J**	910	87	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Fluoranthene	**530**	**J**	910	27	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Pyrene	**640**	**J**	910	41	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Benzo[a]anthracene	**310**		91	76	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Chrysene	**380**	**J**	910	25	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Benzo[b]fluoranthene	**440**		91	36	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Benzo[k]fluoranthene	**170**		91	40	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Benzo[a]pyrene	**320**		91	28	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Indeno[1,2,3-cd]pyrene	**270**		91	61	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Dibenz(a,h)anthracene	**75**	**J**	91	47	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2
Benzo[g,h,i]perylene	**250**	**J**	910	52	ug/Kg	☼	08/26/15 08:36	09/02/15 06:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*28 - 92*	*08/26/15 08:36*	*09/02/15 06:05*	*2*
2-Fluorobiphenyl	*69*		*27 - 84*	*08/26/15 08:36*	*09/02/15 06:05*	*2*
Terphenyl-d14 (Surr)	*57*		*16 - 114*	*08/26/15 08:36*	*09/02/15 06:05*	*2*
2,4,6-Tribromophenol (Surr)	*32*		*10 - 95*	*08/26/15 08:36*	*09/02/15 06:05*	*2*
2-Fluorophenol (Surr)	*53*		*21 - 84*	*08/26/15 08:36*	*09/02/15 06:05*	*2*
Phenol-d5 (Surr)	*53*		*22 - 88*	*08/26/15 08:36*	*09/02/15 06:05*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.8	U	2.8	0.84	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
gamma-BHC (Lindane)	2.8	U	2.8	0.83	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
beta-BHC	2.8	U	2.8	0.90	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
delta-BHC	2.8	U	2.8	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Heptachlor	9.3	U	9.3	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Aldrin	9.3	U	9.3	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
gamma-Chlordane	9.3	U	9.3	2.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
alpha-Chlordane	9.3	U	9.3	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
4,4'-DDE	9.3	U	9.3	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Endosulfan I	9.3	U	9.3	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Dieldrin	2.8	U	2.8	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Endrin	9.3	U	9.3	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
4,4'-DDD	9.3	U	9.3	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Endosulfan II	9.3	U	9.3	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
4,4'-DDT	9.3	U	9.3	0.95	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Endosulfan sulfate	9.3	U	9.3	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Chlordane (technical)	93	U	93	41	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1
Mirex	9.3	U	9.3	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:28*	*1*
Tetrachloro-m-xylene	*124*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:28*	*1*
DCB Decachlorobiphenyl	*124*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:28*	*1*
DCB Decachlorobiphenyl	*122*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:28*	*1*

Client Sample ID: RXR5C/-10.4--10.9/14082015

Date Collected: 08/14/15 09:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-4

Matrix: Solid
Percent Solids: 72.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	22	U *	22	1.8	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1221	22	U	22	1.8	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1232	22	U	22	1.8	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1242	**180**	**p**	22	1.8	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1248	22	U	22	1.8	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1254	**220**		22	3.3	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1
PCB-1260	22	U *	22	3.3	ug/Kg	☼	08/25/15 10:45	09/22/15 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 10:45*	*09/22/15 17:03*	*1*
Tetrachloro-m-xylene	*49*		*30 - 130*	*08/25/15 10:45*	*09/22/15 17:03*	*1*
DCB Decachlorobiphenyl	*44*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 17:03*	*1*
DCB Decachlorobiphenyl	*38*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 17:03*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	23	U	23	16	ug/Kg	☼	08/26/15 11:22	09/02/15 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*170*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:15*	*1*
2,4-Dichlorophenylacetic acid	*306*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:15*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**30.8**		2.6	0.46	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Arsenic	**13.1**		3.9	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Barium	**43.3**	**J**	52.1	1.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Beryllium	0.52	U	0.52	0.44	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Cadmium	**5.9**		1.0	0.54	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Chromium	**33.8**		2.6	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Copper	**230**		6.5	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Manganese	**137**		3.9	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Nickel	**19.7**		10.4	1.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Lead	**147**		2.6	1.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Selenium	5.2	U	5.2	1.8	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4
Zinc	**125**		7.8	1.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:49	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.022	0.015	mg/Kg	☼	09/10/15 05:11	09/10/15 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.8	U	2.8	1.1	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	2.8	U	2.8	1.1	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**33.8**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**0.35**		0.14	0.023	mg/Kg	☼	08/27/15 13:30	08/27/15 19:20	1
Percent Solids	**72.4**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR5C/-10.4--10.9/14082015

Date Collected: 08/14/15 09:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-4

Matrix: Solid
Percent Solids: 72.4

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.931**		0.231	0.249	0.160	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Bismuth-212	0.000	U	0.704	0.704	1.98	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Bismuth-214	**0.494**		0.181	0.188	0.173	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Lead-210	0.350	U	1.47	1.47	2.77	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Lead-212	**0.778**		0.195	0.220	0.192	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Lead-214	**0.605**		0.174	0.185	0.166	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Potassium-40	**6.94**		1.75	1.89	1.64	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Protactinium-231	0.756	U	1.18	1.18	1.98	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Radium-226	**0.494**		0.181	0.188	0.173	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Radium-228	**0.931**		0.231	0.249	0.160	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Thallium-208	**0.344**		0.118	0.123	0.104	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Thorium-234	0.352	U	0.594	0.595	2.60	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Uranium-235	0.000187	U	0.353	0.353	0.619	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Uranium-238	0.352	U	0.594	0.595	2.60	pCi/g	08/27/15 10:12	09/17/15 11:04	1
Protactinium-234m	0.458	U	6.06	6.07	12.0	pCi/g	08/27/15 10:12	09/17/15 11:04	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.557**		0.158	0.164	0.0944	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.516**		0.148	0.155	0.0640	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.464**		0.141	0.146	0.0694	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*95.4*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.863**		0.198	0.210	0.0844	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0386	U	0.0478	0.0479	0.0624	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.839**		0.195	0.207	0.0842	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*91.4*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.425**		0.293	0.312	0.173	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR7A/-8.7--9.9/14082015
Date Collected: 08/14/15 11:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-8
Matrix: Solid
Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	13	U	13	1.7	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,1-Dichloroethene	13	U	13	0.71	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Acetone	**170**		13	10	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Methylene Chloride	13	U	13	1.4	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
trans-1,2-Dichloroethene	13	U	13	0.21	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Methyl tert-butyl ether	13	U	13	0.86	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,3-Dichlorobenzene	13	U *	13	0.28	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,1-Dichloroethane	13	U	13	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
cis-1,2-Dichloroethene	13	U	13	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
2-Butanone (MEK)	**65**		13	5.5	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Chloroform	13	U	13	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,1,1-Trichloroethane	13	U	13	0.78	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Carbon tetrachloride	13	U	13	0.14	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Benzene	13	U	13	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,2-Dichloroethane	13	U	13	2.2	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Trichloroethene	13	U	13	1.4	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,4-Dioxane	250	U	250	35	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Toluene	**7.7**	**J**	13	0.48	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Tetrachloroethene	13	U	13	0.73	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Chlorobenzene	**6.8**	**J**	13	0.28	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Ethylbenzene	**11**	**J**	13	0.17	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
m-Xylene & p-Xylene	**54**		13	0.96	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
o-Xylene	**11**	**J**	13	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
Xylenes, Total	**65**		25	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
N-Propylbenzene	**130**	*****	13	0.78	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,3,5-Trimethylbenzene	**19**	*****	13	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
tert-Butylbenzene	13	U *	13	0.63	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,2,4-Trimethylbenzene	**170**	*****	13	0.30	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
sec-Butylbenzene	**18**	*****	13	0.28	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,4-Dichlorobenzene	**5.9**	**J ***	13	0.96	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
1,2-Dichlorobenzene	13	U *	13	0.33	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1
n-Butylbenzene	**26**	*****	13	0.66	ug/Kg	☼	08/17/15 15:42	08/26/15 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*35 - 145*	*08/17/15 15:42*	*08/26/15 19:12*	*1*
Toluene-d8 (Surr)	*120*		*40 - 175*	*08/17/15 15:42*	*08/26/15 19:12*	*1*
4-Bromofluorobenzene	*136*		*30 - 200*	*08/17/15 15:42*	*08/26/15 19:12*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*08/17/15 15:42*	*08/26/15 19:12*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.8	U H *	7.8	1.0	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,1-Dichloroethene	7.8	U H *	7.8	0.44	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Acetone	**1100**	**H ***	7.8	6.4	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Methylene Chloride	7.8	U H *	7.8	0.87	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
trans-1,2-Dichloroethene	7.8	U H *	7.8	0.13	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Methyl tert-butyl ether	7.8	U H *	7.8	0.53	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,3-Dichlorobenzene	7.8	U H *	7.8	0.17	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,1-Dichloroethane	7.8	U H *	7.8	0.70	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
cis-1,2-Dichloroethene	**2.7**	**J H ***	7.8	0.67	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1

Client Sample ID: RXR7A/-8.7--9.9/14082015
Date Collected: 08/14/15 11:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-8
Matrix: Solid
Percent Solids: 58.5

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**400**	**H ***	7.8	3.4	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Chloroform	7.8	U H *	7.8	0.69	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,1,1-Trichloroethane	7.8	U H *	7.8	0.48	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Carbon tetrachloride	7.8	U H *	7.8	0.084	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Benzene	**1.3**	**J H ***	7.8	0.67	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,2-Dichloroethane	7.8	U H *	7.8	1.4	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Trichloroethene	7.8	U H *	7.8	0.89	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,4-Dioxane	160	U H	160	22	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Toluene	**6.8**	**J H ***	7.8	0.30	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Tetrachloroethene	7.8	U H *	7.8	0.45	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Chlorobenzene	7.8	U H *	7.8	0.17	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Ethylbenzene	**7.9**	**H ***	7.8	0.11	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
m-Xylene & p-Xylene	**15**	**H ***	7.8	0.59	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
o-Xylene	**4.6**	**J H ***	7.8	0.083	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
Xylenes, Total	**20**	**H ***	16	0.083	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
N-Propylbenzene	**50**	**H ***	7.8	0.48	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,3,5-Trimethylbenzene	7.8	U H *	7.8	0.34	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
tert-Butylbenzene	7.8	U H *	7.8	0.39	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,2,4-Trimethylbenzene	7.8	U H *	7.8	0.19	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
sec-Butylbenzene	**8.6**	**H ***	7.8	0.17	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,4-Dichlorobenzene	**6.8**	**J H ***	7.8	0.59	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
1,2-Dichlorobenzene	7.8	U H *	7.8	0.20	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1
n-Butylbenzene	7.8	U H *	7.8	0.41	ug/Kg	☼	08/17/15 14:55	09/08/15 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*		*35 - 145*	*08/17/15 14:55*	*09/08/15 17:03*	*1*
Toluene-d8 (Surr)	*113*		*40 - 175*	*08/17/15 14:55*	*09/08/15 17:03*	*1*
4-Bromofluorobenzene	*105*		*30 - 200*	*08/17/15 14:55*	*09/08/15 17:03*	*1*
Dibromofluoromethane (Surr)	*123*		*50 - 150*	*08/17/15 14:55*	*09/08/15 17:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1100	U	1100	37	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
2-Methylphenol	1100	U	1100	49	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
3 & 4 Methylphenol	**190**	**J**	1100	30	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Naphthalene	**82**	**J**	1100	29	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
2-Methylnaphthalene	**57**	**J**	1100	25	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
2-Chloronaphthalene	1100	U	1100	26	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Acenaphthylene	**62**	**J**	1100	29	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Acenaphthene	**120**	**J**	1100	27	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Dibenzofuran	**48**	**J**	1100	34	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Fluorene	**100**	**J**	1100	25	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Hexachlorobenzene	110	U	110	46	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Pentachlorophenol	910	U	910	140	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Phenanthrene	**410**	**J**	1100	30	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Anthracene	**200**	**J**	1100	110	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Fluoranthene	**1800**		1100	33	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Pyrene	**1000**	**J**	1100	51	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Benzo[a]anthracene	**580**		110	94	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Chrysene	**840**	**J**	1100	31	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2

Client Sample ID: RXR7A/-8.7--9.9/14082015
Date Collected: 08/14/15 11:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-8
Matrix: Solid
Percent Solids: 58.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**950**		110	44	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Benzo[k]fluoranthene	**330**		110	49	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Benzo[a]pyrene	**530**		110	34	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Indeno[1,2,3-cd]pyrene	**350**		110	75	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Dibenz(a,h)anthracene	**130**		110	59	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2
Benzo[g,h,i]perylene	**250**	**J**	1100	65	ug/Kg	☼	08/26/15 08:36	09/04/15 05:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*42*		*28 - 92*	*08/26/15 08:36*	*09/04/15 05:52*	*2*
2-Fluorobiphenyl	*49*		*27 - 84*	*08/26/15 08:36*	*09/04/15 05:52*	*2*
Terphenyl-d14 (Surr)	*34*		*16 - 114*	*08/26/15 08:36*	*09/04/15 05:52*	*2*
2,4,6-Tribromophenol (Surr)	*47*		*10 - 95*	*08/26/15 08:36*	*09/04/15 05:52*	*2*
2-Fluorophenol (Surr)	*42*		*21 - 84*	*08/26/15 08:36*	*09/04/15 05:52*	*2*
Phenol-d5 (Surr)	*42*		*22 - 88*	*08/26/15 08:36*	*09/04/15 05:52*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.4	U	3.4	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
gamma-BHC (Lindane)	3.4	U	3.4	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
beta-BHC	3.4	U	3.4	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
delta-BHC	3.4	U	3.4	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Heptachlor	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Aldrin	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
gamma-Chlordane	11	U	11	2.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
alpha-Chlordane	11	U	11	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
4,4'-DDE	11	U	11	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Endosulfan I	11	U	11	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Dieldrin	3.4	U	3.4	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Endrin	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
4,4'-DDD	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Endosulfan II	11	U	11	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
4,4'-DDT	11	U	11	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Endosulfan sulfate	11	U	11	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Chlordane (technical)	110	U	110	50	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1
Mirex	11	U	11	2.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:41*	*1*
Tetrachloro-m-xylene	*116*		*55 - 139*	*08/27/15 06:30*	*08/30/15 16:41*	*1*
DCB Decachlorobiphenyl	*119*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:41*	*1*
DCB Decachlorobiphenyl	*114*		*55 - 148*	*08/27/15 06:30*	*08/30/15 16:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2
PCB-1221	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2
PCB-1232	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2
PCB-1242	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2
PCB-1248	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2
PCB-1254	**670**		57	8.4	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2

Client Sample ID: RXR7A/-8.7--9.9/14082015
Date Collected: 08/14/15 11:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-8
Matrix: Solid
Percent Solids: 58.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	270		57	8.4	ug/Kg	☼	08/25/15 10:45	09/28/15 17:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 10:45*	*09/28/15 17:48*	*2*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 10:45*	*09/28/15 17:48*	*2*
DCB Decachlorobiphenyl	*53*		*45 - 125*	*08/25/15 10:45*	*09/28/15 17:48*	*2*
DCB Decachlorobiphenyl	*55*		*45 - 125*	*08/25/15 10:45*	*09/28/15 17:48*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	29	U	29	19	ug/Kg	☼	08/26/15 11:22	09/02/15 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*224*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:29*	*1*
2,4-Dichlorophenylacetic acid	*728*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	40.6		3.1	0.54	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Arsenic	174		4.6	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Barium	49.7	J	61.6	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Beryllium	0.80		0.62	0.52	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Cadmium	9.2		1.2	0.64	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Chromium	55.8		3.1	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Copper	638		7.7	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Manganese	217		4.6	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Nickel	73.9		12.3	2.3	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Lead	534		3.1	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Selenium	4.5	J	6.2	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4
Zinc	487		9.2	2.3	mg/Kg	☼	08/31/15 07:54	09/02/15 22:53	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.45		0.026	0.019	mg/Kg	☼	09/10/15 05:11	09/10/15 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.4	U	3.4	1.4	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	3.4	U	3.4	1.4	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	55.8		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	7.6		0.16	0.026	mg/Kg	☼	08/27/15 13:30	08/28/15 12:01	1
Percent Solids	58.5		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.818		0.281	0.293	0.177	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Bismuth-212	0.583	U	0.859	0.861	1.44	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Bismuth-214	0.579		0.197	0.206	0.199	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Lead-210	2.59	U	1.90	1.92	2.66	pCi/g	08/27/15 10:12	09/17/15 13:33	1

Client Sample ID: RXR7A/-8.7--9.9/14082015

Lab Sample ID: 200-29296-8

Date Collected: 08/14/15 11:35
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 58.5

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**0.794**		0.180	0.208	0.168	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Lead-214	**0.594**		0.184	0.194	0.227	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Potassium-40	**5.83**		1.65	1.75	1.52	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Protactinium-231	0.299	U	0.445	0.447	2.60	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Radium-226	**0.579**		0.197	0.206	0.199	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Radium-228	**0.818**		0.281	0.293	0.177	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Thallium-208	**0.224**		0.0821	0.0853	0.0834	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Thorium-234	0.767	U	0.881	0.884	2.75	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Uranium-235	0.115	U	0.297	0.298	0.516	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Uranium-238	0.767	U	0.881	0.884	2.75	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Protactinium-234m	3.86	U	7.96	7.96	14.5	pCi/g	08/27/15 10:12	09/17/15 13:33	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.440**		0.139	0.144	0.0968	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.952**		0.197	0.213	0.0651	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.568**		0.152	0.159	0.0550	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*97.5*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.809**		0.196	0.207	0.119	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.113**		0.0830	0.0835	0.0838	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.689**		0.183	0.192	0.125	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.6*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.397**		0.343	0.358	0.199	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR7B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-9

Date Collected: 08/14/15 11:45
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 51.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	250	U	250	21	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,1-Dichloroethene	250	U	250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1

Client Sample ID: RXR7B/-9.9--10.4/14082015
Date Collected: 08/14/15 11:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-9
Matrix: Solid
Percent Solids: 51.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5100**		1300	310	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Methylene Chloride	**97**	**J B**	250	59	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
trans-1,2-Dichloroethene	250	U	250	25	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Methyl tert-butyl ether	250	U	250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,3-Dichlorobenzene	250	U	250	24	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,1-Dichloroethane	250	U	250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
cis-1,2-Dichloroethene	250	U	250	25	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
2-Butanone (MEK)	1300	U	1300	150	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Chloroform	250	U	250	31	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,1,1-Trichloroethane	250	U	250	22	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Carbon tetrachloride	250	U	250	51	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Benzene	250	U	250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,2-Dichloroethane	250	U	250	33	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Trichloroethene	250	U	250	21	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,4-Dioxane	10000	U	10000	1700	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Toluene	**100**	**J**	250	54	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Tetrachloroethene	250	U	250	51	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Chlorobenzene	**160**	**J**	250	23	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Ethylbenzene	**380**		250	24	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
m-Xylene & p-Xylene	**600**		250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
o-Xylene	250	U	250	25	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
Xylenes, Total	**600**		510	25	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
N-Propylbenzene	**530**		250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,3,5-Trimethylbenzene	**51**	**J**	250	51	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
tert-Butylbenzene	**43**	**J**	250	36	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,2,4-Trimethylbenzene	**410**		250	25	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
sec-Butylbenzene	**150**	**J**	250	51	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,4-Dichlorobenzene	**200**	**J**	250	36	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
1,2-Dichlorobenzene	250	U	250	28	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1
n-Butylbenzene	250	U	250	23	ug/Kg	☼	08/17/15 12:14	08/27/15 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*	*08/17/15 12:14*	*08/27/15 15:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*	*08/17/15 12:14*	*08/27/15 15:53*	*1*
4-Bromofluorobenzene	*108*		*80 - 125*	*08/17/15 12:14*	*08/27/15 15:53*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*	*08/17/15 12:14*	*08/27/15 15:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	640	U	640	21	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
2-Methylphenol	640	U	640	28	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
3 & 4 Methylphenol	**58**	**J**	640	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Naphthalene	**150**	**J**	640	16	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
2-Methylnaphthalene	**56**	**J**	640	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
2-Chloronaphthalene	640	U	640	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Acenaphthylene	**28**	**J**	640	16	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Acenaphthene	**47**	**J**	640	15	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Dibenzofuran	**38**	**J**	640	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Fluorene	**87**	**J**	640	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Hexachlorobenzene	64	U	64	26	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1

Client Sample ID: RXR7B/-9.9--10.4/14082015
Date Collected: 08/14/15 11:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-9
Matrix: Solid
Percent Solids: 51.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	510	U	510	77	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Phenanthrene	**330**	**J**	640	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Anthracene	**140**	**J**	640	61	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Fluoranthene	**840**		640	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Pyrene	**1000**		640	29	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Benzo[a]anthracene	**440**		64	53	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Chrysene	640	U	640	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Benzo[b]fluoranthene	**710**		64	25	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Benzo[k]fluoranthene	**280**		64	28	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Benzo[a]pyrene	**460**		64	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Indeno[1,2,3-cd]pyrene	**560**	*	64	42	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Dibenz(a,h)anthracene	**150**		64	33	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1
Benzo[g,h,i]perylene	**530**	**J**	640	37	ug/Kg	☼	08/26/15 22:47	09/01/15 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*28 - 92*	*08/26/15 22:47*	*09/01/15 01:05*	*1*
2-Fluorobiphenyl	*80*		*27 - 84*	*08/26/15 22:47*	*09/01/15 01:05*	*1*
Terphenyl-d14 (Surr)	*89*		*16 - 114*	*08/26/15 22:47*	*09/01/15 01:05*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 95*	*08/26/15 22:47*	*09/01/15 01:05*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 84*	*08/26/15 22:47*	*09/01/15 01:05*	*1*
Phenol-d5 (Surr)	*62*		*22 - 88*	*08/26/15 22:47*	*09/01/15 01:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.9	U	3.9	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
gamma-BHC (Lindane)	3.9	U	3.9	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
beta-BHC	3.9	U	3.9	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
delta-BHC	3.9	U	3.9	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Heptachlor	13	U	13	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Aldrin	13	U	13	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
gamma-Chlordane	13	U	13	2.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
alpha-Chlordane	13	U	13	2.1	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
4,4'-DDE	13	U	13	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Endosulfan I	13	U	13	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Dieldrin	3.9	U	3.9	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Endrin	13	U	13	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
4,4'-DDD	13	U	13	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Endosulfan II	13	U	13	2.0	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
4,4'-DDT	13	U	13	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Endosulfan sulfate	13	U	13	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Chlordane (technical)	130	U	130	57	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1
Mirex	13	U	13	2.5	ug/Kg	☼	08/27/15 06:30	08/30/15 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*167*	*X*	*55 - 139*	*08/27/15 06:30*	*08/30/15 16:53*	*1*
Tetrachloro-m-xylene	*172*	*X*	*55 - 139*	*08/27/15 06:30*	*08/30/15 16:53*	*1*
DCB Decachlorobiphenyl	*180*	*X*	*55 - 148*	*08/27/15 06:30*	*08/30/15 16:53*	*1*
DCB Decachlorobiphenyl	*174*	*X*	*55 - 148*	*08/27/15 06:30*	*08/30/15 16:53*	*1*

Client Sample ID: RXR7B/-9.9--10.4/14082015

Date Collected: 08/14/15 11:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-9

Matrix: Solid
Percent Solids: 51.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	330	U *	330	27	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1221	330	U	330	27	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1232	330	U	330	27	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1242	**1800**		330	27	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1248	330	U	330	27	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1254	**1200**		330	49	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10
PCB-1260	330	U *	330	49	ug/Kg	☼	08/25/15 10:45	09/24/15 15:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*30 - 130*	*08/25/15 10:45*	*09/24/15 15:37*	*10*
Tetrachloro-m-xylene	*45*		*30 - 130*	*08/25/15 10:45*	*09/24/15 15:37*	*10*
DCB Decachlorobiphenyl	*57*		*45 - 125*	*08/25/15 10:45*	*09/24/15 15:37*	*10*
DCB Decachlorobiphenyl	*62*		*45 - 125*	*08/25/15 10:45*	*09/24/15 15:37*	*10*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	33	U	33	22	ug/Kg	☼	08/26/15 11:22	09/02/15 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*1189*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:44*	*1*
2,4-Dichlorophenylacetic acid	*471*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**67.0**		3.6	0.63	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Arsenic	**232**		5.4	1.8	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Barium	**73.1**		71.7	2.6	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Beryllium	**1.4**		0.72	0.61	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Cadmium	**15.0**		1.4	0.75	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Chromium	**76.2**		3.6	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Copper	**899**		9.0	2.3	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Manganese	**243**		5.4	1.9	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Nickel	**77.2**		14.3	2.6	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Lead	**1070**		3.6	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Selenium	**8.0**		7.2	2.5	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4
Zinc	**640**		10.8	2.6	mg/Kg	☼	08/31/15 07:54	09/02/15 22:57	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.031	0.022	mg/Kg	☼	09/10/15 05:11	09/10/15 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.9	U	3.9	1.6	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	3.9	U	3.9	1.6	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**76.2**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**0.37**		0.36	0.057	mg/Kg	☼	08/27/15 13:30	08/28/15 12:02	2
Percent Solids	**51.7**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR7B/-9.9--10.4/14082015

Date Collected: 08/14/15 11:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-9

Matrix: Solid
Percent Solids: 51.7

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**1.38**		0.301	0.333	0.148	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Bismuth-212	0.725	U	0.910	0.913	1.49	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Bismuth-214	**0.798**		0.205	0.221	0.198	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Lead-210	2.26	U	2.57	2.58	3.71	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Lead-212	**1.07**		0.209	0.250	0.212	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Lead-214	**1.04**		0.208	0.234	0.211	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Potassium-40	**11.0**		1.91	2.22	1.33	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Protactinium-231	0.595	U	0.535	0.539	3.04	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Radium-226	**0.798**		0.205	0.221	0.198	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Radium-228	**1.38**		0.301	0.333	0.148	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Thallium-208	**0.330**		0.100	0.106	0.103	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Thorium-234	0.574	U	1.03	1.04	3.14	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Uranium-235	0.180	U	0.205	0.206	0.559	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Uranium-238	0.574	U	1.03	1.04	3.14	pCi/g	08/27/15 10:12	09/17/15 13:34	1
Protactinium-234m	6.01	U	8.23	8.25	13.9	pCi/g	08/27/15 10:12	09/17/15 13:34	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.717**		0.194	0.203	0.114	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**1.74**		0.295	0.329	0.0841	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.643**		0.179	0.187	0.0751	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*77.1*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.20**		0.232	0.253	0.0510	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0531	U	0.0560	0.0562	0.0634	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.969**		0.210	0.225	0.0794	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*87.6*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**2.178**		0.364	0.400	0.198	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR7C/-10.4--10.9/14082015
Date Collected: 08/14/15 11:55
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-10
Matrix: Solid
Percent Solids: 62.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.2	U	7.2	0.95	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,1-Dichloroethene	7.2	U	7.2	0.40	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Acetone	**120**		7.2	5.9	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Methylene Chloride	7.2	U	7.2	0.80	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
trans-1,2-Dichloroethene	7.2	U	7.2	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Methyl tert-butyl ether	7.2	U	7.2	0.49	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,3-Dichlorobenzene	7.2	U	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,1-Dichloroethane	7.2	U	7.2	0.65	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
cis-1,2-Dichloroethene	7.2	U	7.2	0.62	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
2-Butanone (MEK)	**51**		7.2	3.2	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Chloroform	7.2	U	7.2	0.63	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,1,1-Trichloroethane	7.2	U	7.2	0.44	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Carbon tetrachloride	7.2	U	7.2	0.077	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Benzene	7.2	U	7.2	0.62	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,2-Dichloroethane	7.2	U	7.2	1.2	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Trichloroethene	7.2	U	7.2	0.82	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,4-Dioxane	140	U	140	20	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Toluene	7.2	U	7.2	0.27	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Tetrachloroethene	**0.53**	**J**	7.2	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Chlorobenzene	7.2	U	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Ethylbenzene	**0.68**	**J**	7.2	0.098	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
m-Xylene & p-Xylene	7.2	U	7.2	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
o-Xylene	**0.80**	**J**	7.2	0.076	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
Xylenes, Total	**0.80**	**J**	14	0.076	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
N-Propylbenzene	**1.7**	**J**	7.2	0.44	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,3,5-Trimethylbenzene	**2.2**	**J**	7.2	0.32	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
tert-Butylbenzene	7.2	U	7.2	0.36	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,2,4-Trimethylbenzene	**6.1**	**J**	7.2	0.17	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
sec-Butylbenzene	7.2	U	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,4-Dichlorobenzene	7.2	U	7.2	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
1,2-Dichlorobenzene	7.2	U	7.2	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1
n-Butylbenzene	7.2	U	7.2	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*35 - 145*	*08/17/15 15:42*	*08/26/15 19:43*	*1*
Toluene-d8 (Surr)	*118*		*40 - 175*	*08/17/15 15:42*	*08/26/15 19:43*	*1*
4-Bromofluorobenzene	*138*		*30 - 200*	*08/17/15 15:42*	*08/26/15 19:43*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*08/17/15 15:42*	*08/26/15 19:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	530	U	530	17	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
2-Methylphenol	530	U	530	23	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
3 & 4 Methylphenol	**40**	**J**	530	14	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Naphthalene	**150**	**J**	530	13	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
2-Methylnaphthalene	**61**	**J**	530	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
2-Chloronaphthalene	530	U	530	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Acenaphthylene	**24**	**J**	530	14	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Acenaphthene	**41**	**J**	530	13	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Dibenzofuran	**40**	**J**	530	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1

Client Sample ID: RXR7C/-10.4--10.9/14082015
Date Collected: 08/14/15 11:55
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-10
Matrix: Solid
Percent Solids: 62.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**83**	**J**	530	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Hexachlorobenzene	53	U	53	21	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Pentachlorophenol	430	U	430	64	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Phenanthrene	**270**	**J**	530	14	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Anthracene	**82**	**J**	530	50	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Fluoranthene	**620**		530	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Pyrene	**890**		530	24	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Benzo[a]anthracene	**330**		53	44	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Chrysene	**400**	**J**	530	14	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Benzo[b]fluoranthene	**660**		53	21	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Benzo[k]fluoranthene	**210**		53	23	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Benzo[a]pyrene	**380**		53	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Indeno[1,2,3-cd]pyrene	**420**	*****	53	35	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Dibenz(a,h)anthracene	**96**		53	28	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1
Benzo[g,h,i]perylene	**400**	**J**	530	30	ug/Kg	☼	08/26/15 22:47	08/31/15 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*28 - 92*	*08/26/15 22:47*	*08/31/15 23:56*	*1*
2-Fluorobiphenyl	*72*		*27 - 84*	*08/26/15 22:47*	*08/31/15 23:56*	*1*
Terphenyl-d14 (Surr)	*84*		*16 - 114*	*08/26/15 22:47*	*08/31/15 23:56*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 95*	*08/26/15 22:47*	*08/31/15 23:56*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 84*	*08/26/15 22:47*	*08/31/15 23:56*	*1*
Phenol-d5 (Surr)	*57*		*22 - 88*	*08/26/15 22:47*	*08/31/15 23:56*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.2	U	3.2	0.98	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
gamma-BHC (Lindane)	3.2	U	3.2	0.96	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
beta-BHC	3.2	U	3.2	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
delta-BHC	3.2	U	3.2	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Heptachlor	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Aldrin	11	U	11	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
gamma-Chlordane	11	U	11	2.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
alpha-Chlordane	11	U	11	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
4,4'-DDE	11	U	11	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Endosulfan I	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Dieldrin	3.2	U	3.2	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Endrin	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
4,4'-DDD	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Endosulfan II	11	U	11	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
4,4'-DDT	11	U	11	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Endosulfan sulfate	11	U	11	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Chlordane (technical)	110	U	110	47	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1
Mirex	11	U	11	2.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*114*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:06*	*1*
Tetrachloro-m-xylene	*118*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:06*	*1*
DCB Decachlorobiphenyl	*119*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:06*	*1*
DCB Decachlorobiphenyl	*117*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:06*	*1*

Client Sample ID: RXR7C/-10.4--10.9/14082015

Date Collected: 08/14/15 11:55
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-10

Matrix: Solid
Percent Solids: 62.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	54	U *	54	4.4	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1221	54	U	54	4.4	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1232	54	U	54	4.4	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1242	**280**	**p**	54	4.4	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1248	54	U	54	4.4	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1254	**420**		54	7.9	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2
PCB-1260	54	U *	54	7.9	ug/Kg	☼	08/25/15 10:45	09/22/15 17:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 130*	*08/25/15 10:45*	*09/22/15 17:52*	*2*
Tetrachloro-m-xylene	*44*		*30 - 130*	*08/25/15 10:45*	*09/22/15 17:52*	*2*
DCB Decachlorobiphenyl	*42*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 17:52*	*2*
DCB Decachlorobiphenyl	*37*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 17:52*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	27	U	27	18	ug/Kg	☼	08/26/15 11:22	09/02/15 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*585*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:59*	*1*
2,4-Dichlorophenylacetic acid	*672*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 20:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**58.1**		3.1	0.54	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Arsenic	**154**		4.6	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Barium	**60.2**	**J**	61.3	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Beryllium	**1.0**		0.61	0.52	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Cadmium	**12.8**		1.2	0.64	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Chromium	**58.3**		3.1	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Copper	**607**		7.7	2.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Manganese	**198**		4.6	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Nickel	**62.9**		12.3	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Lead	**600**		3.1	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Selenium	**5.5**	**J**	6.1	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4
Zinc	**404**		9.2	2.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:12	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.027	0.019	mg/Kg	☼	09/10/15 05:11	09/10/15 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.2	U	3.2	1.3	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	3.2	U	3.2	1.3	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**58.3**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**1.1**		0.30	0.049	mg/Kg	☼	08/27/15 13:30	08/27/15 19:52	2
Percent Solids	**62.2**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR7C/-10.4--10.9/14082015
Date Collected: 08/14/15 11:55
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-10
Matrix: Solid
Percent Solids: 62.2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.532**		0.178	0.187	0.174	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Bismuth-212	0.503	U	0.658	0.660	1.08	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Bismuth-214	**0.590**		0.202	0.211	0.194	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Lead-210	0.406	U	1.48	1.48	2.57	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Lead-212	**0.681**		0.143	0.168	0.144	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Lead-214	**0.249**		0.129	0.131	0.191	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Potassium-40	**6.81**		1.38	1.54	0.937	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Protactinium-231	0.436	U	0.995	0.996	1.73	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Radium-226	**0.590**		0.202	0.211	0.194	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Radium-228	**0.532**		0.178	0.187	0.174	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Thallium-208	**0.212**		0.0732	0.0764	0.0645	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Thorium-234	2.11	U	1.61	1.63	2.21	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Uranium-235	0.0199	U	0.0772	0.0772	0.457	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Uranium-238	2.11	U	1.61	1.63	2.21	pCi/g	08/27/15 10:12	09/17/15 13:35	1
Protactinium-234m	-0.498	U	11.3	11.3	13.4	pCi/g	08/27/15 10:12	09/17/15 13:35	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.384**		0.140	0.143	0.104	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**1.24**		0.240	0.262	0.0658	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.439**		0.144	0.149	0.0723	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*83.5*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.740**		0.182	0.192	0.0859	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0490	U	0.0545	0.0547	0.0702	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.650**		0.168	0.177	0.0325	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*93.8*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.122**		0.269	0.282	0.194	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR8A/-9.3--9.9/14082015
Date Collected: 08/14/15 12:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-11
Matrix: Solid
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U *	5.0	0.66	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,1-Dichloroethene	5.0	U *	5.0	0.28	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Acetone	**32**		5.0	4.1	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Methylene Chloride	5.0	U *	5.0	0.56	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
trans-1,2-Dichloroethene	5.0	U *	5.0	0.083	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Methyl tert-butyl ether	5.0	U *	5.0	0.34	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,3-Dichlorobenzene	5.0	U *	5.0	0.11	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,1-Dichloroethane	5.0	U *	5.0	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
cis-1,2-Dichloroethene	5.0	U *	5.0	0.43	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
2-Butanone (MEK)	**12**		5.0	2.2	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Chloroform	5.0	U *	5.0	0.44	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,1,1-Trichloroethane	5.0	U *	5.0	0.31	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Carbon tetrachloride	5.0	U *	5.0	0.054	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Benzene	5.0	U *	5.0	0.43	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,2-Dichloroethane	5.0	U *	5.0	0.87	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Trichloroethene	5.0	U *	5.0	0.57	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,4-Dioxane	100	U	100	14	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Toluene	**2.1**	**J ***	5.0	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Tetrachloroethene	5.0	U *	5.0	0.29	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Chlorobenzene	5.0	U *	5.0	0.11	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Ethylbenzene	5.0	U *	5.0	0.068	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
m-Xylene & p-Xylene	5.0	U *	5.0	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
o-Xylene	5.0	U *	5.0	0.053	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
Xylenes, Total	10	U *	10	0.053	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
N-Propylbenzene	5.0	U *	5.0	0.31	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,3,5-Trimethylbenzene	5.0	U *	5.0	0.22	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
tert-Butylbenzene	5.0	U *	5.0	0.25	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,2,4-Trimethylbenzene	5.0	U *	5.0	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
sec-Butylbenzene	5.0	U *	5.0	0.11	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,4-Dichlorobenzene	5.0	U *	5.0	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
1,2-Dichlorobenzene	5.0	U *	5.0	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1
n-Butylbenzene	5.0	U *	5.0	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*35 - 145*	*08/17/15 15:42*	*08/26/15 23:18*	*1*
Toluene-d8 (Surr)	*129*		*40 - 175*	*08/17/15 15:42*	*08/26/15 23:18*	*1*
4-Bromofluorobenzene	*165*		*30 - 200*	*08/17/15 15:42*	*08/26/15 23:18*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*	*08/17/15 15:42*	*08/26/15 23:18*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.7	U H *	4.7	0.62	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,1-Dichloroethene	4.7	U H *	4.7	0.26	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Acetone	**82**	**H ***	4.7	3.8	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Methylene Chloride	**1.3**	**J H ***	4.7	0.53	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
trans-1,2-Dichloroethene	4.7	U H *	4.7	0.078	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Methyl tert-butyl ether	4.7	U H *	4.7	0.32	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,3-Dichlorobenzene	4.7	U H *	4.7	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,1-Dichloroethane	4.7	U H *	4.7	0.42	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
cis-1,2-Dichloroethene	4.7	U H *	4.7	0.40	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1

Client Sample ID: RXR8A/-9.3--9.9/14082015
Date Collected: 08/14/15 12:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-11
Matrix: Solid
Percent Solids: 83.9

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**28**	**H ***	4.7	2.1	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Chloroform	4.7	U H *	4.7	0.41	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,1,1-Trichloroethane	4.7	U H *	4.7	0.29	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Carbon tetrachloride	4.7	U H *	4.7	0.051	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Benzene	4.7	U H *	4.7	0.40	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,2-Dichloroethane	4.7	U H *	4.7	0.82	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Trichloroethene	4.7	U H *	4.7	0.54	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,4-Dioxane	94	U H	94	13	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Toluene	**2.9**	**J H ***	4.7	0.18	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Tetrachloroethene	**0.71**	**J H ***	4.7	0.27	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Chlorobenzene	4.7	U H *	4.7	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Ethylbenzene	**0.65**	**J H ***	4.7	0.064	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
m-Xylene & p-Xylene	**2.6**	**J H ***	4.7	0.36	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
o-Xylene	**1.2**	**J H ***	4.7	0.050	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
Xylenes, Total	**3.8**	**J H ***	9.4	0.050	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
N-Propylbenzene	4.7	U H *	4.7	0.29	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,3,5-Trimethylbenzene	4.7	U H *	4.7	0.21	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
tert-Butylbenzene	4.7	U H *	4.7	0.23	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,2,4-Trimethylbenzene	**1.0**	**J H ***	4.7	0.11	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
sec-Butylbenzene	4.7	U H *	4.7	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,4-Dichlorobenzene	**1.1**	**J H ***	4.7	0.36	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
1,2-Dichlorobenzene	4.7	U H *	4.7	0.12	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1
n-Butylbenzene	4.7	U H *	4.7	0.24	ug/Kg	☼	08/17/15 14:55	09/08/15 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*35 - 145*	*08/17/15 14:55*	*09/08/15 17:35*	*1*
Toluene-d8 (Surr)	*108*		*40 - 175*	*08/17/15 14:55*	*09/08/15 17:35*	*1*
4-Bromofluorobenzene	*125*		*30 - 200*	*08/17/15 14:55*	*09/08/15 17:35*	*1*
Dibromofluoromethane (Surr)	*127*		*50 - 150*	*08/17/15 14:55*	*09/08/15 17:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	390	U	390	13	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
2-Methylphenol	390	U	390	17	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
3 & 4 Methylphenol	**15**	**J**	390	10	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Naphthalene	**27**	**J**	390	10	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
2-Methylnaphthalene	**22**	**J**	390	8.7	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
2-Chloronaphthalene	390	U	390	8.9	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Acenaphthylene	**17**	**J**	390	10	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Acenaphthene	390	U	390	9.5	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Dibenzofuran	**12**	**J**	390	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Fluorene	**11**	**J**	390	8.6	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Hexachlorobenzene	39	U	39	16	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Pentachlorophenol	320	U	320	48	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Phenanthrene	**92**	**J**	390	10	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Anthracene	**39**	**J**	390	37	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Fluoranthene	**290**	**J**	390	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Pyrene	**490**		390	18	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Benzo[a]anthracene	**190**		39	33	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Chrysene	**190**	**J**	390	11	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1

Client Sample ID: RXR8A/-9.3--9.9/14082015
Date Collected: 08/14/15 12:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-11
Matrix: Solid
Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**280**		39	15	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Benzo[k]fluoranthene	**120**		39	17	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Benzo[a]pyrene	**210**		39	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Indeno[1,2,3-cd]pyrene	**220**	*	39	26	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Dibenz(a,h)anthracene	**59**		39	20	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1
Benzo[g,h,i]perylene	**230**	J	390	23	ug/Kg	☼	08/26/15 22:47	09/01/15 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*60*		*28 - 92*	*08/26/15 22:47*	*09/01/15 00:19*	*1*
2-Fluorobiphenyl	*71*		*27 - 84*	*08/26/15 22:47*	*09/01/15 00:19*	*1*
Terphenyl-d14 (Surr)	*91*		*16 - 114*	*08/26/15 22:47*	*09/01/15 00:19*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 95*	*08/26/15 22:47*	*09/01/15 00:19*	*1*
2-Fluorophenol (Surr)	*55*		*21 - 84*	*08/26/15 22:47*	*09/01/15 00:19*	*1*
Phenol-d5 (Surr)	*58*		*22 - 88*	*08/26/15 22:47*	*09/01/15 00:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.4	U	2.4	0.73	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
gamma-BHC (Lindane)	2.4	U	2.4	0.72	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
beta-BHC	2.4	U	2.4	0.77	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
delta-BHC	2.4	U	2.4	0.87	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Heptachlor	8.0	U	8.0	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Aldrin	8.0	U	8.0	0.97	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
gamma-Chlordane	8.0	U	8.0	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
alpha-Chlordane	8.0	U	8.0	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
4,4'-DDE	8.0	U	8.0	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Endosulfan I	8.0	U	8.0	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Endrin	8.0	U	8.0	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
4,4'-DDD	8.0	U	8.0	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Endosulfan II	8.0	U	8.0	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
4,4'-DDT	8.0	U	8.0	0.82	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Endosulfan sulfate	8.0	U	8.0	0.93	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Chlordane (technical)	80	U	80	35	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1
Mirex	8.0	U	8.0	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:19*	*1*
Tetrachloro-m-xylene	*117*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:19*	*1*
DCB Decachlorobiphenyl	*119*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:19*	*1*
DCB Decachlorobiphenyl	*116*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	41	U *	41	3.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2
PCB-1221	41	U	41	3.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2
PCB-1232	41	U	41	3.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2
PCB-1242	**98**		41	3.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2
PCB-1248	41	U	41	3.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2
PCB-1254	**110**	p	41	6.0	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2

Client Sample ID: RXR8A/-9.3--9.9/14082015
Date Collected: 08/14/15 12:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-11
Matrix: Solid
Percent Solids: 83.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	41	U *	41	6.0	ug/Kg	☼	08/25/15 10:45	09/23/15 16:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 130*	*08/25/15 10:45*	*09/23/15 16:21*	*2*
Tetrachloro-m-xylene	*46*		*30 - 130*	*08/25/15 10:45*	*09/23/15 16:21*	*2*
DCB Decachlorobiphenyl	*37*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 16:21*	*2*
DCB Decachlorobiphenyl	*39*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 16:21*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	14	ug/Kg	☼	08/26/15 11:22	09/02/15 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*372*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:14*	*1*
2,4-Dichlorophenylacetic acid	*352*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**49.0**		2.1	0.38	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Arsenic	**8.3**		3.2	1.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Barium	**22.2**	**J**	42.6	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Beryllium	0.43	U	0.43	0.36	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Cadmium	**10.4**		0.85	0.44	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Chromium	**20.2**		2.1	1.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Copper	**175**		5.3	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Manganese	**85.4**		3.2	1.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Nickel	**12.0**		8.5	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Lead	**101**		2.1	0.84	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Selenium	4.3	U	4.3	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4
Zinc	**86.3**		6.4	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:15	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.019	0.013	mg/Kg	☼	09/10/15 05:11	09/10/15 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.97	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	2.4	U	2.4	0.97	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**20.2**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	0.12	U	0.12	0.019	mg/Kg	☼	08/27/15 13:30	08/27/15 19:27	1
Percent Solids	**83.9**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.308**		0.146	0.149	0.202	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Bismuth-212	0.0305	U	0.597	0.597	1.10	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Bismuth-214	**0.375**		0.133	0.138	0.134	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Lead-210	0.867	U	1.14	1.15	1.74	pCi/g	08/27/15 10:12	09/17/15 13:33	1

Client Sample ID: RXR8A/-9.3--9.9/14082015

Lab Sample ID: 200-29296-11

Date Collected: 08/14/15 12:15
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 83.9

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**0.575**		0.112	0.135	0.0970	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Lead-214	**0.402**		0.119	0.126	0.104	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Potassium-40	**6.81**		1.27	1.45	0.697	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Protactinium-231	0.512	U	0.678	0.681	1.56	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Radium-226	**0.375**		0.133	0.138	0.134	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Radium-228	**0.308**		0.146	0.149	0.202	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Thallium-208	**0.207**		0.0647	0.0681	0.0505	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Thorium-234	0.507	U	0.463	0.466	1.39	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Uranium-235	0.0897	U	0.197	0.198	0.344	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Uranium-238	0.507	U	0.463	0.466	1.39	pCi/g	08/27/15 10:12	09/17/15 13:33	1
Protactinium-234m	-0.230	U	4.88	4.88	9.40	pCi/g	08/27/15 10:12	09/17/15 13:33	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.279**		0.115	0.117	0.0875	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.341**		0.122	0.125	0.0559	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.262**		0.107	0.110	0.0609	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*95.4*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.514**		0.150	0.156	0.0328	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0110	U	0.0277	0.0277	0.0619	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.323**		0.120	0.123	0.0567	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*88.3*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.683**		0.197	0.203	0.202	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR8B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-12

Date Collected: 08/14/15 12:25
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 74.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.5	U	8.5	1.1	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,1-Dichloroethene	8.5	U	8.5	0.47	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1

Client Sample ID: RXR8B/-9.9--10.4/14082015
Date Collected: 08/14/15 12:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-12
Matrix: Solid
Percent Solids: 74.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**43**		8.5	6.9	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Methylene Chloride	**1.1**	**J B**	8.5	0.95	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
trans-1,2-Dichloroethene	8.5	U	8.5	0.14	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Methyl tert-butyl ether	8.5	U	8.5	0.58	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,3-Dichlorobenzene	8.5	U	8.5	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,1-Dichloroethane	8.5	U	8.5	0.76	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
cis-1,2-Dichloroethene	8.5	U	8.5	0.73	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
2-Butanone (MEK)	**15**		8.5	3.7	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Chloroform	8.5	U	8.5	0.75	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,1,1-Trichloroethane	8.5	U	8.5	0.53	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Carbon tetrachloride	8.5	U	8.5	0.092	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Benzene	8.5	U	8.5	0.73	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,2-Dichloroethane	8.5	U	8.5	1.5	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Trichloroethene	8.5	U	8.5	0.97	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,4-Dioxane	170	U	170	24	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Toluene	**2.1**	**J**	8.5	0.32	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Tetrachloroethene	8.5	U	8.5	0.49	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Chlorobenzene	**1.9**	**J**	8.5	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Ethylbenzene	8.5	U	8.5	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
m-Xylene & p-Xylene	8.5	U	8.5	0.64	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
o-Xylene	8.5	U	8.5	0.090	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
Xylenes, Total	17	U	17	0.090	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
N-Propylbenzene	8.5	U	8.5	0.53	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,3,5-Trimethylbenzene	8.5	U	8.5	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
tert-Butylbenzene	8.5	U	8.5	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,2,4-Trimethylbenzene	8.5	U	8.5	0.20	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
sec-Butylbenzene	8.5	U	8.5	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,4-Dichlorobenzene	**8.6**		8.5	0.64	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
1,2-Dichlorobenzene	8.5	U	8.5	0.22	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1
n-Butylbenzene	8.5	U	8.5	0.44	ug/Kg	☼	08/17/15 15:42	08/26/15 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*08/17/15 15:42*	*08/26/15 20:13*	*1*
Toluene-d8 (Surr)	*116*		*40 - 175*	*08/17/15 15:42*	*08/26/15 20:13*	*1*
4-Bromofluorobenzene	*144*		*30 - 200*	*08/17/15 15:42*	*08/26/15 20:13*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*08/17/15 15:42*	*08/26/15 20:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	440	U	440	14	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
2-Methylphenol	440	U	440	19	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
3 & 4 Methylphenol	440	U	440	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Naphthalene	**34**	**J**	440	11	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
2-Methylnaphthalene	**27**	**J**	440	9.8	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
2-Chloronaphthalene	440	U	440	10	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Acenaphthylene	**14**	**J**	440	11	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Acenaphthene	**11**	**J**	440	11	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Dibenzofuran	**16**	**J**	440	13	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Fluorene	**20**	**J**	440	9.6	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Hexachlorobenzene	44	U	44	18	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1

Client Sample ID: RXR8B/-9.9--10.4/14082015
Date Collected: 08/14/15 12:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-12
Matrix: Solid
Percent Solids: 74.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	360	U	360	54	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Phenanthrene	**130**	**J**	440	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Anthracene	**51**	**J**	440	42	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Fluoranthene	**400**	**J**	440	13	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Pyrene	**560**		440	20	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Benzo[a]anthracene	**230**		44	37	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Chrysene	**220**	**J**	440	12	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Benzo[b]fluoranthene	**360**		44	17	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Benzo[k]fluoranthene	**100**		44	19	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Benzo[a]pyrene	**230**		44	13	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Indeno[1,2,3-cd]pyrene	**270**	*	44	29	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Dibenz(a,h)anthracene	**68**		44	23	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1
Benzo[g,h,i]perylene	**280**	**J**	440	25	ug/Kg	☼	08/26/15 22:47	09/01/15 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*57*		*28 - 92*	*08/26/15 22:47*	*09/01/15 00:42*	*1*
2-Fluorobiphenyl	*68*		*27 - 84*	*08/26/15 22:47*	*09/01/15 00:42*	*1*
Terphenyl-d14 (Surr)	*81*		*16 - 114*	*08/26/15 22:47*	*09/01/15 00:42*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 95*	*08/26/15 22:47*	*09/01/15 00:42*	*1*
2-Fluorophenol (Surr)	*51*		*21 - 84*	*08/26/15 22:47*	*09/01/15 00:42*	*1*
Phenol-d5 (Surr)	*55*		*22 - 88*	*08/26/15 22:47*	*09/01/15 00:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.7	U	2.7	0.82	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
gamma-BHC (Lindane)	2.7	U	2.7	0.80	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
beta-BHC	2.7	U	2.7	0.87	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
delta-BHC	2.7	U	2.7	0.98	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Heptachlor	9.0	U	9.0	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Aldrin	9.0	U	9.0	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
gamma-Chlordane	9.0	U	9.0	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
alpha-Chlordane	9.0	U	9.0	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
4,4'-DDE	9.0	U	9.0	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Endosulfan I	9.0	U	9.0	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Dieldrin	2.7	U	2.7	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Endrin	9.0	U	9.0	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
4,4'-DDD	9.0	U	9.0	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Endosulfan II	9.0	U	9.0	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
4,4'-DDT	9.0	U	9.0	0.92	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Endosulfan sulfate	9.0	U	9.0	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Chlordane (technical)	90	U	90	40	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1
Mirex	9.0	U	9.0	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*138*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:32*	*1*
Tetrachloro-m-xylene	*144*	*X*	*55 - 139*	*08/27/15 06:30*	*08/30/15 17:32*	*1*
DCB Decachlorobiphenyl	*143*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:32*	*1*
DCB Decachlorobiphenyl	*137*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:32*	*1*

Client Sample ID: RXR8B/-9.9--10.4/14082015

Date Collected: 08/14/15 12:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-12

Matrix: Solid
Percent Solids: 74.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	46	U *	46	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1221	46	U	46	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1232	46	U	46	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1242	**170**	**p**	46	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1248	46	U	46	3.8	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1254	**350**		46	6.7	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2
PCB-1260	46	U *	46	6.7	ug/Kg	☼	08/25/15 10:45	09/22/15 18:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*31*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:26*	*2*
Tetrachloro-m-xylene	*30*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:26*	*2*
DCB Decachlorobiphenyl	*25*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 18:26*	*2*
DCB Decachlorobiphenyl	*24*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 18:26*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	23	U	23	15	ug/Kg	☼	08/26/15 11:22	09/02/15 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*248*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:29*	*1*
2,4-Dichlorophenylacetic acid	*454*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**58.0**		2.4	0.43	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Arsenic	**16.0**		3.7	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Barium	**42.1**	**J**	48.7	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Beryllium	0.49	U	0.49	0.41	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Cadmium	**12.4**		0.97	0.51	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Chromium	**30.3**		2.4	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Copper	**441**		6.1	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Manganese	**184**		3.7	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Nickel	**19.3**		9.7	1.8	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Lead	**156**		2.4	0.96	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Selenium	**1.7**	**J**	4.9	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4
Zinc	**170**		7.3	1.8	mg/Kg	☼	08/31/15 07:54	09/02/15 23:19	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.022	0.016	mg/Kg	☼	09/10/15 05:11	09/10/15 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.7	U	2.7	1.1	mg/Kg	☼	08/27/15 11:00	08/28/15 19:19	1
Chromium (hexavalent)	2.7	U	2.7	1.1	mg/Kg	☼	08/27/15 11:00	08/29/15 18:54	1
Cr (III)	**30.3**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**0.074**	**J**	0.14	0.022	mg/Kg	☼	08/27/15 13:30	08/27/15 19:28	1
Percent Solids	**74.6**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR8B/-9.9--10.4/14082015
Date Collected: 08/14/15 12:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-12
Matrix: Solid
Percent Solids: 74.6

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.269**		0.143	0.146	0.237	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Bismuth-212	0.335	U	0.470	0.471	0.782	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Bismuth-214	**0.171**		0.0943	0.0960	0.140	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Lead-210	0.239	U	1.33	1.33	2.06	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Lead-212	**0.387**		0.109	0.120	0.118	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Lead-214	**0.368**		0.121	0.127	0.124	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Potassium-40	**7.93**		1.26	1.50	0.691	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Protactinium-231	0.177	U	0.604	0.605	1.32	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Radium-226	**0.171**		0.0943	0.0960	0.140	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Radium-228	**0.269**		0.143	0.146	0.237	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Thallium-208	**0.208**		0.0589	0.0627	0.0476	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Thorium-234	0.824	U	0.872	0.876	1.54	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Uranium-235	0.135	U	0.186	0.186	0.319	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Uranium-238	0.824	U	0.872	0.876	1.54	pCi/g	08/27/15 10:12	09/17/15 14:33	1
Protactinium-234m	0.334	U	4.65	4.65	9.26	pCi/g	08/27/15 10:12	09/17/15 14:33	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.285**		0.121	0.123	0.0964	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.487**		0.151	0.157	0.0703	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.420**		0.140	0.144	0.0595	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*82.0*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.343**		0.123	0.126	0.0746	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0188	U	0.0379	0.0380	0.0743	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.380**		0.128	0.132	0.0640	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*95.9*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.440**		0.171	0.175	0.237	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR8C/-10.4--10.9/14082015
Date Collected: 08/14/15 12:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-13
Matrix: Solid
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.0	U	6.0	0.79	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,1-Dichloroethene	6.0	U	6.0	0.33	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Acetone	**51**		6.0	4.9	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Methylene Chloride	6.0	U	6.0	0.67	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
trans-1,2-Dichloroethene	6.0	U	6.0	0.099	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Methyl tert-butyl ether	6.0	U	6.0	0.41	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,3-Dichlorobenzene	**7.1**	*	6.0	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,1-Dichloroethane	6.0	U	6.0	0.54	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
cis-1,2-Dichloroethene	6.0	U	6.0	0.51	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
2-Butanone (MEK)	**18**		6.0	2.6	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Chloroform	6.0	U	6.0	0.53	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,1,1-Trichloroethane	6.0	U	6.0	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Carbon tetrachloride	6.0	U	6.0	0.064	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Benzene	6.0	U	6.0	0.51	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,2-Dichloroethane	6.0	U	6.0	1.0	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Trichloroethene	6.0	U	6.0	0.68	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,4-Dioxane	120	U	120	17	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Toluene	**3.0**	**J**	6.0	0.23	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Tetrachloroethene	6.0	U	6.0	0.35	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Chlorobenzene	**4.2**	**J**	6.0	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Ethylbenzene	6.0	U	6.0	0.081	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
m-Xylene & p-Xylene	**1.9**	**J**	6.0	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
o-Xylene	**1.3**	**J**	6.0	0.063	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
Xylenes, Total	**3.2**	**J**	12	0.063	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
N-Propylbenzene	6.0	U *	6.0	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,3,5-Trimethylbenzene	6.0	U *	6.0	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
tert-Butylbenzene	6.0	U *	6.0	0.30	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,2,4-Trimethylbenzene	**2.4**	**J ***	6.0	0.14	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
sec-Butylbenzene	6.0	U *	6.0	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,4-Dichlorobenzene	**14**	*	6.0	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
1,2-Dichlorobenzene	6.0	U *	6.0	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1
n-Butylbenzene	6.0	U *	6.0	0.31	ug/Kg	☼	08/17/15 15:42	08/26/15 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*35 - 145*	*08/17/15 15:42*	*08/26/15 20:44*	*1*
Toluene-d8 (Surr)	*121*		*40 - 175*	*08/17/15 15:42*	*08/26/15 20:44*	*1*
4-Bromofluorobenzene	*139*		*30 - 200*	*08/17/15 15:42*	*08/26/15 20:44*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*08/17/15 15:42*	*08/26/15 20:44*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.8	U H *	5.8	0.77	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,1-Dichloroethene	5.8	U H *	5.8	0.33	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Acetone	**250**	**H ***	5.8	4.8	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Methylene Chloride	**1.6**	**J H ***	5.8	0.65	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
trans-1,2-Dichloroethene	5.8	U H *	5.8	0.097	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Methyl tert-butyl ether	5.8	U H *	5.8	0.40	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,3-Dichlorobenzene	5.8	U H *	5.8	0.13	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,1-Dichloroethane	5.8	U H *	5.8	0.52	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
cis-1,2-Dichloroethene	5.8	U H *	5.8	0.50	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1

Client Sample ID: RXR8C/-10.4--10.9/14082015
Date Collected: 08/14/15 12:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-13
Matrix: Solid
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**97**	**H ***	5.8	2.6	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Chloroform	5.8	U H *	5.8	0.51	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,1,1-Trichloroethane	5.8	U H *	5.8	0.36	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Carbon tetrachloride	5.8	U H *	5.8	0.063	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Benzene	5.8	U H *	5.8	0.50	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,2-Dichloroethane	5.8	U H *	5.8	1.0	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Trichloroethene	5.8	U H *	5.8	0.66	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,4-Dioxane	120	U H	120	16	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Toluene	**5.0**	**J H ***	5.8	0.22	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Tetrachloroethene	5.8	U H *	5.8	0.34	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Chlorobenzene	**5.5**	**J H ***	5.8	0.13	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Ethylbenzene	**1.0**	**J H ***	5.8	0.079	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
m-Xylene & p-Xylene	**2.6**	**J H ***	5.8	0.44	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
o-Xylene	**1.7**	**J H ***	5.8	0.062	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
Xylenes, Total	**4.3**	**J H ***	12	0.062	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
N-Propylbenzene	5.8	U H *	5.8	0.36	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,3,5-Trimethylbenzene	5.8	U H *	5.8	0.26	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
tert-Butylbenzene	5.8	U H *	5.8	0.29	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,2,4-Trimethylbenzene	5.8	U H *	5.8	0.14	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
sec-Butylbenzene	5.8	U H *	5.8	0.13	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,4-Dichlorobenzene	**28**	**H ***	5.8	0.44	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
1,2-Dichlorobenzene	5.8	U H *	5.8	0.15	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1
n-Butylbenzene	5.8	U H *	5.8	0.30	ug/Kg	☼	08/17/15 14:55	09/08/15 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*35 - 145*	*08/17/15 14:55*	*09/08/15 18:06*	*1*
Toluene-d8 (Surr)	*121*		*40 - 175*	*08/17/15 14:55*	*09/08/15 18:06*	*1*
4-Bromofluorobenzene	*153*		*30 - 200*	*08/17/15 14:55*	*09/08/15 18:06*	*1*
Dibromofluoromethane (Surr)	*121*		*50 - 150*	*08/17/15 14:55*	*09/08/15 18:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	430	U	430	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
2-Methylphenol	430	U	430	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
3 & 4 Methylphenol	430	U	430	11	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Naphthalene	**22**	**J**	430	11	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
2-Methylnaphthalene	**18**	**J**	430	9.5	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
2-Chloronaphthalene	430	U	430	9.7	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Acenaphthylene	**13**	**J**	430	11	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Acenaphthene	430	U	430	10	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Dibenzofuran	430	U	430	13	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Fluorene	430	U	430	9.4	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Hexachlorobenzene	43	U	43	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Pentachlorophenol	350	U	350	52	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Phenanthrene	**87**	**J**	430	11	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Anthracene	430	U	430	41	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Fluoranthene	**280**	**J**	430	13	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Pyrene	**410**	**J**	430	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Benzo[a]anthracene	**160**		43	36	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Chrysene	**180**	**J**	430	12	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1

Client Sample ID: RXR8C/-10.4--10.9/14082015
Date Collected: 08/14/15 12:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-13
Matrix: Solid
Percent Solids: 76.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**240**		43	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Benzo[k]fluoranthene	**85**		43	19	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Benzo[a]pyrene	**170**		43	13	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Indeno[1,2,3-cd]pyrene	**210**	*	43	29	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Dibenz(a,h)anthracene	**45**		43	22	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1
Benzo[g,h,i]perylene	**190**	**J**	430	25	ug/Kg	☼	08/26/15 22:47	09/01/15 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*28 - 92*	*08/26/15 22:47*	*09/01/15 01:28*	*1*
2-Fluorobiphenyl	*73*		*27 - 84*	*08/26/15 22:47*	*09/01/15 01:28*	*1*
Terphenyl-d14 (Surr)	*84*		*16 - 114*	*08/26/15 22:47*	*09/01/15 01:28*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 95*	*08/26/15 22:47*	*09/01/15 01:28*	*1*
2-Fluorophenol (Surr)	*54*		*21 - 84*	*08/26/15 22:47*	*09/01/15 01:28*	*1*
Phenol-d5 (Surr)	*59*		*22 - 88*	*08/26/15 22:47*	*09/01/15 01:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.6	U	2.6	0.79	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
gamma-BHC (Lindane)	2.6	U	2.6	0.78	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
beta-BHC	2.6	U	2.6	0.85	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
delta-BHC	2.6	U	2.6	0.95	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Heptachlor	8.7	U	8.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Aldrin	8.7	U	8.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
gamma-Chlordane	8.7	U	8.7	1.9	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
alpha-Chlordane	8.7	U	8.7	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
4,4'-DDE	8.7	U	8.7	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Endosulfan I	8.7	U	8.7	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Dieldrin	2.6	U	2.6	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Endrin	8.7	U	8.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
4,4'-DDD	8.7	U	8.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Endosulfan II	8.7	U	8.7	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
4,4'-DDT	8.7	U	8.7	0.90	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Endosulfan sulfate	8.7	U	8.7	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Chlordane (technical)	87	U	87	38	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1
Mirex	8.7	U	8.7	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:45*	*1*
Tetrachloro-m-xylene	*119*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:45*	*1*
DCB Decachlorobiphenyl	*120*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:45*	*1*
DCB Decachlorobiphenyl	*115*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	83	U *	83	6.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4
PCB-1221	83	U	83	6.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4
PCB-1232	83	U	83	6.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4
PCB-1242	**310**	**p**	83	6.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4
PCB-1248	83	U	83	6.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4
PCB-1254	**590**		83	12	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4

Client Sample ID: RXR8C/-10.4--10.9/14082015
Date Collected: 08/14/15 12:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-13
Matrix: Solid
Percent Solids: 76.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	83	U *	83	12	ug/Kg	☼	08/25/15 10:45	09/22/15 18:42	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:42*	*4*
Tetrachloro-m-xylene	*45*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:42*	*4*
DCB Decachlorobiphenyl	*41*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 18:42*	*4*
DCB Decachlorobiphenyl	*40*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 18:42*	*4*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	22	U	22	15	ug/Kg	☼	08/26/15 11:22	09/02/15 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*209*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:44*	*1*
2,4-Dichlorophenylacetic acid	*436*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 21:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**31.9**		2.3	0.41	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Arsenic	**8.5**		3.5	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Barium	**24.2**	**J**	46.9	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Beryllium	0.47	U	0.47	0.40	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Cadmium	**6.8**		0.94	0.49	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Chromium	**17.8**		2.3	1.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Copper	**162**		5.9	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Manganese	**129**		3.5	1.2	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Nickel	**22.0**		9.4	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Lead	**96.2**		2.3	0.92	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Selenium	4.7	U	4.7	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4
Zinc	**177**		7.0	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:23	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.30**		0.021	0.015	mg/Kg	☼	09/10/15 05:11	09/10/15 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.6	U	2.6	1.1	mg/Kg	☼	09/03/15 05:30	09/03/15 17:52	1
Chromium (hexavalent)	2.6	U	2.6	1.0	mg/Kg	☼	09/03/15 19:00	09/03/15 23:43	1
Cr (III)	**17.8**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**2.4**		0.12	0.019	mg/Kg	☼	08/27/15 13:30	08/27/15 19:29	1
Percent Solids	**76.8**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.338**		0.145	0.149	0.278	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Bismuth-212	0.0102	U	0.406	0.406	0.777	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Bismuth-214	**0.479**		0.105	0.116	0.0421	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Lead-210	0.587	U	0.908	0.911	1.43	pCi/g	08/27/15 10:28	09/17/15 07:08	1

Client Sample ID: RXR8C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-13

Date Collected: 08/14/15 12:35
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 76.8

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**0.452**		0.0942	0.111	0.0901	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Lead-214	**0.461**		0.0933	0.105	0.0496	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Potassium-40	**7.80**		1.31	1.54	0.584	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Protactinium-231	0.188	U	0.390	0.390	1.49	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Radium-226	**0.479**		0.105	0.116	0.0421	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Radium-228	**0.338**		0.145	0.149	0.278	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Thallium-208	**0.0732**		0.0472	0.0478	0.0710	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Thorium-234	0.642	U	0.446	0.451	1.23	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Uranium-235	0.0731	U	0.152	0.152	0.245	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Uranium-238	0.642	U	0.446	0.451	1.23	pCi/g	08/27/15 10:28	09/17/15 07:08	1
Protactinium-234m	2.96	U	3.97	3.98	9.94	pCi/g	08/27/15 10:28	09/17/15 07:08	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.360**		0.130	0.133	0.0818	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.564**		0.160	0.167	0.0753	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.291**		0.115	0.117	0.0627	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*86.9*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.559**		0.156	0.163	0.0653	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	**0.0533**		0.0533	0.0535	0.0400	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.470**		0.142	0.147	0.0320	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*88.2*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.817**		0.179	0.189	0.278	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR4A/-6.2--10.9/14082015

Lab Sample ID: 200-29296-14

Date Collected: 08/14/15 14:40
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.3	U	5.3	0.70	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,1-Dichloroethene	5.3	U	5.3	0.30	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1

Client Sample ID: RXR4A/-6.2--10.9/14082015
Date Collected: 08/14/15 14:40
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-14
Matrix: Solid
Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**35**		5.3	4.3	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Methylene Chloride	5.3	U	5.3	0.59	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
trans-1,2-Dichloroethene	5.3	U	5.3	0.088	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Methyl tert-butyl ether	5.3	U	5.3	0.36	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,3-Dichlorobenzene	5.3	U	5.3	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,1-Dichloroethane	5.3	U	5.3	0.48	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
cis-1,2-Dichloroethene	5.3	U	5.3	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
2-Butanone (MEK)	5.3	U	5.3	2.3	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Chloroform	5.3	U	5.3	0.46	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,1,1-Trichloroethane	5.3	U	5.3	0.33	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Carbon tetrachloride	5.3	U	5.3	0.057	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Benzene	5.3	U	5.3	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,2-Dichloroethane	5.3	U	5.3	0.92	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Trichloroethene	5.3	U	5.3	0.60	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,4-Dioxane	110	U	110	15	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Toluene	**1.4**	**J**	5.3	0.20	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Tetrachloroethene	**0.39**	**J**	5.3	0.31	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Chlorobenzene	5.3	U	5.3	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Ethylbenzene	**0.22**	**J**	5.3	0.072	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
m-Xylene & p-Xylene	**1.0**	**J**	5.3	0.40	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
o-Xylene	**0.32**	**J**	5.3	0.056	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
Xylenes, Total	**1.3**	**J**	11	0.056	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
N-Propylbenzene	5.3	U	5.3	0.33	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,3,5-Trimethylbenzene	5.3	U	5.3	0.23	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
tert-Butylbenzene	5.3	U	5.3	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,2,4-Trimethylbenzene	5.3	U	5.3	0.13	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
sec-Butylbenzene	5.3	U	5.3	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,4-Dichlorobenzene	5.3	U	5.3	0.40	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
1,2-Dichlorobenzene	5.3	U	5.3	0.14	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1
n-Butylbenzene	5.3	U	5.3	0.27	ug/Kg	☼	08/17/15 15:42	08/26/15 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*	*08/17/15 15:42*	*08/26/15 21:15*	*1*
Toluene-d8 (Surr)	*114*		*40 - 175*	*08/17/15 15:42*	*08/26/15 21:15*	*1*
4-Bromofluorobenzene	*130*		*30 - 200*	*08/17/15 15:42*	*08/26/15 21:15*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*08/17/15 15:42*	*08/26/15 21:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	400	U	400	13	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
2-Methylphenol	400	U	400	18	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
3 & 4 Methylphenol	400	U	400	11	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Naphthalene	400	U	400	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
2-Methylnaphthalene	400	U	400	8.9	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
2-Chloronaphthalene	400	U	400	9.1	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Acenaphthylene	400	U	400	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Acenaphthene	400	U	400	9.7	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Dibenzofuran	400	U	400	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Fluorene	400	U	400	8.8	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Hexachlorobenzene	40	U	40	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1

Client Sample ID: RXR4A/-6.2--10.9/14082015
Date Collected: 08/14/15 14:40
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-14
Matrix: Solid
Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	320	U	320	49	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Phenanthrene	400	U	400	11	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Anthracene	400	U	400	38	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Fluoranthene	**26**	**J**	400	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Pyrene	**35**	**J**	400	18	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Benzo[a]anthracene	40	U	40	34	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Chrysene	**21**	**J**	400	11	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Benzo[b]fluoranthene	**36**	**J**	40	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Benzo[k]fluoranthene	**18**	**J**	40	18	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Benzo[a]pyrene	**36**	**J**	40	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Indeno[1,2,3-cd]pyrene	**27**	**J ***	40	27	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Dibenz(a,h)anthracene	40	U	40	21	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1
Benzo[g,h,i]perylene	**24**	**J**	400	23	ug/Kg	☼	08/26/15 22:47	08/31/15 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*28 - 92*	*08/26/15 22:47*	*08/31/15 23:33*	*1*
2-Fluorobiphenyl	*71*		*27 - 84*	*08/26/15 22:47*	*08/31/15 23:33*	*1*
Terphenyl-d14 (Surr)	*120*	*X*	*16 - 114*	*08/26/15 22:47*	*08/31/15 23:33*	*1*
2,4,6-Tribromophenol (Surr)	*115*	*X*	*10 - 95*	*08/26/15 22:47*	*08/31/15 23:33*	*1*
2-Fluorophenol (Surr)	*61*		*21 - 84*	*08/26/15 22:47*	*08/31/15 23:33*	*1*
Phenol-d5 (Surr)	*64*		*22 - 88*	*08/26/15 22:47*	*08/31/15 23:33*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.4	U	2.4	0.74	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
gamma-BHC (Lindane)	2.4	U	2.4	0.73	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
beta-BHC	2.4	U	2.4	0.79	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
delta-BHC	2.4	U	2.4	0.89	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Heptachlor	8.2	U	8.2	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Aldrin	8.2	U	8.2	0.99	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
gamma-Chlordane	8.2	U	8.2	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
alpha-Chlordane	8.2	U	8.2	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
4,4'-DDE	8.2	U	8.2	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Endosulfan I	8.2	U	8.2	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Dieldrin	2.4	U	2.4	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Endrin	8.2	U	8.2	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
4,4'-DDD	8.2	U	8.2	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Endosulfan II	8.2	U	8.2	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
4,4'-DDT	8.2	U	8.2	0.84	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Endosulfan sulfate	8.2	U	8.2	0.95	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Chlordane (technical)	82	U	82	36	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1
Mirex	8.2	U	8.2	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*126*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:58*	*1*
Tetrachloro-m-xylene	*129*		*55 - 139*	*08/27/15 06:30*	*08/30/15 17:58*	*1*
DCB Decachlorobiphenyl	*130*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:58*	*1*
DCB Decachlorobiphenyl	*126*		*55 - 148*	*08/27/15 06:30*	*08/30/15 17:58*	*1*

Client Sample ID: RXR4A/-6.2--10.9/14082015

Date Collected: 08/14/15 14:40
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-14

Matrix: Solid
Percent Solids: 82.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	20	U *	20	1.6	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1221	20	U	20	1.6	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1232	20	U	20	1.6	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1242	**13**	**J p**	20	1.6	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1248	20	U	20	1.6	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1254	**16**	**J**	20	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1
PCB-1260	20	U *	20	2.9	ug/Kg	☼	08/25/15 10:45	09/22/15 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:59*	*1*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 10:45*	*09/22/15 18:59*	*1*
DCB Decachlorobiphenyl	*51*		*45 - 125*	*08/25/15 10:45*	*09/22/15 18:59*	*1*
DCB Decachlorobiphenyl	*46*		*45 - 125*	*08/25/15 10:45*	*09/22/15 18:59*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	21	U	21	14	ug/Kg	☼	08/26/15 11:22	09/02/15 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*428*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 22:43*	*1*
2,4-Dichlorophenylacetic acid	*380*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 22:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**1.7**	**J**	2.1	0.38	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Arsenic	**2.7**	**J**	3.2	1.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Barium	**6.5**	**J**	42.7	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Beryllium	0.43	U	0.43	0.36	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Cadmium	0.85	U	0.85	0.45	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Chromium	**9.7**		2.1	1.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Copper	**23.9**		5.3	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Manganese	**37.0**		3.2	1.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Nickel	**3.7**	**J**	8.5	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Lead	**13.6**		2.1	0.84	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Selenium	4.3	U	4.3	1.5	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4
Zinc	**25.6**		6.4	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:26	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.019	0.013	mg/Kg	☼	09/10/15 05:11	09/10/15 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.99	mg/Kg	☼	09/03/15 05:30	09/03/15 17:52	1
Chromium (hexavalent)	2.5	U	2.5	1.0	mg/Kg	☼	09/03/15 19:00	09/03/15 23:43	1
Cr (III)	**9.7**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	0.12	U	0.12	0.019	mg/Kg	☼	08/27/15 13:30	08/27/15 19:30	1
Percent Solids	**82.1**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR4A/-6.2--10.9/14082015

Date Collected: 08/14/15 14:40
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-14

Matrix: Solid
Percent Solids: 82.1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.316**		0.134	0.138	0.263	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Bismuth-212	0.421	U	0.628	0.629	1.05	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Bismuth-214	**0.478**		0.123	0.133	0.0930	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Lead-210	0.563	U	1.03	1.03	1.64	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Lead-212	**0.366**		0.120	0.129	0.125	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Lead-214	**0.341**		0.0953	0.102	0.121	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Potassium-40	**4.17**		1.19	1.27	1.20	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Protactinium-231	0.178	U	0.547	0.547	1.76	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Radium-226	**0.478**		0.123	0.133	0.0930	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Radium-228	**0.316**		0.134	0.138	0.263	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Thallium-208	0.0468	U	0.0620	0.0622	0.0879	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Thorium-234	0.198	U	0.415	0.416	1.32	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Uranium-235	0.0450	U	0.0919	0.0920	0.314	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Uranium-238	0.198	U	0.415	0.416	1.32	pCi/g	08/27/15 10:28	09/17/15 07:07	1
Protactinium-234m	-2.07	U	18.3	18.3	11.0	pCi/g	08/27/15 10:28	09/17/15 07:07	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.190**		0.100	0.101	0.103	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.525**		0.153	0.159	0.0766	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.170**		0.0859	0.0871	0.0488	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*87.7*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.450**		0.142	0.147	0.0767	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0378	U	0.0468	0.0469	0.0612	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.494**		0.146	0.152	0.0490	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.8*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.794**		0.182	0.192	0.263	pCi/g		09/21/15 22:06	1

Client Sample ID: DUP003

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17

Matrix: Solid
Percent Solids: 86.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.3	U	4.3	0.56	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,1-Dichloroethene	4.3	U	4.3	0.24	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Acetone	**44**		4.3	3.5	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Methylene Chloride	4.3	U	4.3	0.48	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
trans-1,2-Dichloroethene	4.3	U	4.3	0.071	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Methyl tert-butyl ether	4.3	U	4.3	0.29	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,3-Dichlorobenzene	4.3	U	4.3	0.094	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,1-Dichloroethane	4.3	U	4.3	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
cis-1,2-Dichloroethene	4.3	U	4.3	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
2-Butanone (MEK)	**9.7**		4.3	1.9	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Chloroform	4.3	U	4.3	0.38	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,1,1-Trichloroethane	4.3	U	4.3	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Carbon tetrachloride	4.3	U	4.3	0.046	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Benzene	4.3	U	4.3	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,2-Dichloroethane	4.3	U	4.3	0.74	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Trichloroethene	4.3	U	4.3	0.49	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,4-Dioxane	85	U	85	12	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Toluene	**1.5**	**J**	4.3	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Tetrachloroethene	4.3	U	4.3	0.25	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Chlorobenzene	4.3	U	4.3	0.094	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Ethylbenzene	4.3	U	4.3	0.058	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
m-Xylene & p-Xylene	4.3	U	4.3	0.32	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
o-Xylene	**0.21**	**J**	4.3	0.045	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
Xylenes, Total	**0.21**	**J**	8.5	0.045	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
N-Propylbenzene	4.3	U	4.3	0.26	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,3,5-Trimethylbenzene	4.3	U	4.3	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
tert-Butylbenzene	4.3	U	4.3	0.21	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,2,4-Trimethylbenzene	**0.22**	**J**	4.3	0.10	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
sec-Butylbenzene	4.3	U	4.3	0.094	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,4-Dichlorobenzene	4.3	U	4.3	0.32	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
1,2-Dichlorobenzene	4.3	U	4.3	0.11	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1
n-Butylbenzene	4.3	U	4.3	0.22	ug/Kg	☼	08/17/15 15:42	08/26/15 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/17/15 15:42*	*08/26/15 21:46*	*1*
Toluene-d8 (Surr)	*107*		*40 - 175*	*08/17/15 15:42*	*08/26/15 21:46*	*1*
4-Bromofluorobenzene	*116*		*30 - 200*	*08/17/15 15:42*	*08/26/15 21:46*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*08/17/15 15:42*	*08/26/15 21:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	380	U	380	12	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
2-Methylphenol	380	U	380	17	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
3 & 4 Methylphenol	380	U	380	10	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Naphthalene	380	U	380	9.7	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
2-Methylnaphthalene	380	U	380	8.4	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
2-Chloronaphthalene	380	U	380	8.6	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Acenaphthylene	380	U	380	9.8	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Acenaphthene	380	U	380	9.2	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Dibenzofuran	380	U	380	11	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1

Client Sample ID: DUP003
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	380	U	380	8.3	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Hexachlorobenzene	38	U	38	15	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Pentachlorophenol	310	U	310	46	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Phenanthrene	**23**	**J**	380	10	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Anthracene	380	U	380	36	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Fluoranthene	**34**	**J**	380	11	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Pyrene	**35**	**J**	380	17	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Benzo[a]anthracene	38	U	38	32	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Chrysene	**19**	**J**	380	10	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Benzo[b]fluoranthene	**31**	**J**	38	15	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Benzo[k]fluoranthene	38	U	38	17	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Benzo[a]pyrene	**34**	**J**	38	11	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Indeno[1,2,3-cd]pyrene	38	U *	38	25	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Dibenz(a,h)anthracene	38	U	38	20	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1
Benzo[g,h,i]perylene	380	U	380	22	ug/Kg	☼	08/26/15 22:47	08/31/15 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*28 - 92*	*08/26/15 22:47*	*08/31/15 22:47*	*1*
2-Fluorobiphenyl	*71*		*27 - 84*	*08/26/15 22:47*	*08/31/15 22:47*	*1*
Terphenyl-d14 (Surr)	*108*		*16 - 114*	*08/26/15 22:47*	*08/31/15 22:47*	*1*
2,4,6-Tribromophenol (Surr)	*117*	*X*	*10 - 95*	*08/26/15 22:47*	*08/31/15 22:47*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 84*	*08/26/15 22:47*	*08/31/15 22:47*	*1*
Phenol-d5 (Surr)	*62*		*22 - 88*	*08/26/15 22:47*	*08/31/15 22:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.3	U	2.3	0.70	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
gamma-BHC (Lindane)	2.3	U	2.3	0.69	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
beta-BHC	2.3	U	2.3	0.75	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
delta-BHC	2.3	U	2.3	0.84	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Heptachlor	7.7	U	7.7	0.99	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Aldrin	7.7	U	7.7	0.93	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
gamma-Chlordane	7.7	U	7.7	1.7	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
alpha-Chlordane	7.7	U	7.7	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
4,4'-DDE	7.7	U	7.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Endosulfan I	7.7	U	7.7	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Dieldrin	2.3	U	2.3	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Endrin	7.7	U	7.7	0.98	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
4,4'-DDD	7.7	U	7.7	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Endosulfan II	7.7	U	7.7	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
4,4'-DDT	7.7	U	7.7	0.79	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Endosulfan sulfate	7.7	U	7.7	0.90	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Chlordane (technical)	77	U	77	34	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1
Mirex	7.7	U	7.7	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:10*	*1*
Tetrachloro-m-xylene	*114*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:10*	*1*
DCB Decachlorobiphenyl	*115*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:10*	*1*
DCB Decachlorobiphenyl	*105*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:10*	*1*

Client Sample ID: DUP003

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17

Matrix: Solid
Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	20	U *	20	1.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1221	20	U	20	1.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1232	20	U	20	1.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1242	20	U	20	1.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1248	20	U	20	1.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1254	**8.1**	**J**	20	3.0	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1
PCB-1260	20	U *	20	3.0	ug/Kg	☼	08/25/15 10:45	09/23/15 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 130*	*08/25/15 10:45*	*09/23/15 16:37*	*1*
Tetrachloro-m-xylene	*65*		*30 - 130*	*08/25/15 10:45*	*09/23/15 16:37*	*1*
DCB Decachlorobiphenyl	*54*		*45 - 125*	*08/25/15 10:45*	*09/23/15 16:37*	*1*
DCB Decachlorobiphenyl	*56*		*45 - 125*	*08/25/15 10:45*	*09/23/15 16:37*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	13	ug/Kg	☼	08/26/15 11:22	09/02/15 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*540*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 22:58*	*1*
2,4-Dichlorophenylacetic acid	*369*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 22:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.82**	**J**	2.0	0.34	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Arsenic	**1.8**	**J**	2.9	0.96	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Barium	**5.6**	**J**	39.0	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Beryllium	0.39	U	0.39	0.33	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Cadmium	0.78	U	0.78	0.41	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Chromium	**9.7**		2.0	0.94	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Copper	**16.9**		4.9	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Manganese	**36.2**		2.9	1.0	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Nickel	**3.8**	**J**	7.8	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Lead	**8.5**		2.0	0.77	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Selenium	3.9	U	3.9	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4
Zinc	**19.1**		5.9	1.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:30	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.019	0.014	mg/Kg	☼	09/10/15 05:11	09/10/15 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.3	U	2.3	0.93	mg/Kg	☼	09/03/15 05:30	09/03/15 17:52	1
Chromium (hexavalent)	2.2	U	2.2	0.90	mg/Kg	☼	09/03/15 19:00	09/03/15 23:43	1
Cr (III)	**9.7**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	0.12	U	0.12	0.018	mg/Kg	☼	08/27/15 13:30	08/27/15 19:33	1
Percent Solids	**86.9**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: DUP003
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17
Matrix: Solid
Percent Solids: 86.9

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.547**		0.152	0.162	0.0793	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Bismuth-212	0.125	U	0.435	0.435	0.778	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Bismuth-214	**0.512**		0.116	0.127	0.103	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Lead-210	**1.61**		1.13	1.14	1.51	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Lead-212	**0.419**		0.0962	0.110	0.0976	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Lead-214	**0.576**		0.116	0.131	0.133	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Potassium-40	**4.14**		0.929	1.02	0.893	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Protactinium-231	0.174	U	0.458	0.459	1.54	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Radium-226	**0.512**		0.116	0.127	0.103	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Radium-228	**0.547**		0.152	0.162	0.0793	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Thallium-208	**0.211**		0.0568	0.0608	0.0471	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Thorium-234	0.0652	U	0.0940	0.0942	1.46	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Uranium-235	0.169	U	0.194	0.194	0.315	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Uranium-238	0.0652	U	0.0940	0.0942	1.46	pCi/g	08/27/15 10:28	09/17/15 07:05	1
Protactinium-234m	-1.33	U	4.49	4.49	8.08	pCi/g	08/27/15 10:28	09/17/15 07:05	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.336**		0.126	0.130	0.0918	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.650**		0.170	0.178	0.0623	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.399**		0.133	0.137	0.0566	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*87.7*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.597**		0.168	0.176	0.0820	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0287	U	0.0406	0.0407	0.0431	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.495**		0.151	0.157	0.0346	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*89.4*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.059**		0.191	0.206	0.103	pCi/g		09/21/15 22:06	1

Client Sample ID: DUP005
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19
Matrix: Solid
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.2	U	7.2	0.95	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,1-Dichloroethene	7.2	U	7.2	0.40	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Acetone	**100**		7.2	5.9	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Methylene Chloride	**0.82**	**J B**	7.2	0.80	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
trans-1,2-Dichloroethene	7.2	U	7.2	0.12	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Methyl tert-butyl ether	7.2	U	7.2	0.49	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,3-Dichlorobenzene	7.2	U *	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,1-Dichloroethane	7.2	U	7.2	0.65	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
cis-1,2-Dichloroethene	7.2	U	7.2	0.62	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
2-Butanone (MEK)	**39**		7.2	3.2	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Chloroform	7.2	U	7.2	0.63	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,1,1-Trichloroethane	7.2	U	7.2	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Carbon tetrachloride	7.2	U	7.2	0.078	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Benzene	**0.81**	**J**	7.2	0.62	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,2-Dichloroethane	7.2	U	7.2	1.3	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Trichloroethene	7.2	U	7.2	0.82	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,4-Dioxane	140	U	140	20	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Toluene	**2.9**	**J**	7.2	0.27	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Tetrachloroethene	7.2	U	7.2	0.42	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Chlorobenzene	**4.7**	**J**	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Ethylbenzene	**8.6**		7.2	0.098	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
m-Xylene & p-Xylene	**31**		7.2	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
o-Xylene	**6.9**	**J**	7.2	0.076	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
Xylenes, Total	**38**		14	0.076	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
N-Propylbenzene	**93**	*****	7.2	0.45	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,3,5-Trimethylbenzene	**14**	*****	7.2	0.32	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
tert-Butylbenzene	7.2	U *	7.2	0.36	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,2,4-Trimethylbenzene	**60**	*****	7.2	0.17	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
sec-Butylbenzene	**12**	*****	7.2	0.16	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,4-Dichlorobenzene	**5.5**	**J ***	7.2	0.55	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
1,2-Dichlorobenzene	7.2	U *	7.2	0.19	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1
n-Butylbenzene	**15**	*****	7.2	0.37	ug/Kg	☼	08/17/15 15:42	08/26/15 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*35 - 145*	*08/17/15 15:42*	*08/26/15 22:17*	*1*
Toluene-d8 (Surr)	*132*		*40 - 175*	*08/17/15 15:42*	*08/26/15 22:17*	*1*
4-Bromofluorobenzene	*149*		*30 - 200*	*08/17/15 15:42*	*08/26/15 22:17*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*08/17/15 15:42*	*08/26/15 22:17*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	9.7	U H	9.7	1.3	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,1-Dichloroethene	9.7	U H	9.7	0.54	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Acetone	**1000**	**H ***	9.7	7.9	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Methylene Chloride	**1.2**	**J H**	9.7	1.1	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
trans-1,2-Dichloroethene	9.7	U H	9.7	0.16	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Methyl tert-butyl ether	9.7	U H	9.7	0.66	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,3-Dichlorobenzene	9.7	U H *	9.7	0.21	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,1-Dichloroethane	9.7	U H	9.7	0.87	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
cis-1,2-Dichloroethene	9.7	U H	9.7	0.83	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1

Client Sample ID: DUP005
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19
Matrix: Solid
Percent Solids: 59.2

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**400**	**H ***	9.7	4.3	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Chloroform	9.7	U H	9.7	0.85	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,1,1-Trichloroethane	9.7	U H	9.7	0.60	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Carbon tetrachloride	9.7	U H	9.7	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Benzene	9.7	U H	9.7	0.83	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,2-Dichloroethane	9.7	U H	9.7	1.7	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Trichloroethene	9.7	U H	9.7	1.1	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,4-Dioxane	190	U H	190	27	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Toluene	**2.6**	**J H ***	9.7	0.37	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Tetrachloroethene	9.7	U H *	9.7	0.56	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Chlorobenzene	**3.6**	**J H ***	9.7	0.21	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Ethylbenzene	**5.5**	**J H ***	9.7	0.13	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
m-Xylene & p-Xylene	**13**	**H ***	9.7	0.74	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
o-Xylene	**3.6**	**J H ***	9.7	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
Xylenes, Total	**17**	**J H ***	19	0.10	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
N-Propylbenzene	**46**	**H ***	9.7	0.60	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,3,5-Trimethylbenzene	9.7	U H *	9.7	0.43	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
tert-Butylbenzene	9.7	U H *	9.7	0.48	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,2,4-Trimethylbenzene	**36**	**H ***	9.7	0.23	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
sec-Butylbenzene	**6.9**	**J H ***	9.7	0.21	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,4-Dichlorobenzene	**5.1**	**J H ***	9.7	0.74	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
1,2-Dichlorobenzene	9.7	U H *	9.7	0.25	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1
n-Butylbenzene	9.7	U H *	9.7	0.50	ug/Kg	☼	08/17/15 14:55	09/08/15 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*	*08/17/15 14:55*	*09/08/15 18:38*	*1*
Toluene-d8 (Surr)	*123*		*40 - 175*	*08/17/15 14:55*	*09/08/15 18:38*	*1*
4-Bromofluorobenzene	*142*		*30 - 200*	*08/17/15 14:55*	*09/08/15 18:38*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*08/17/15 14:55*	*09/08/15 18:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**56**	**J**	560	18	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
2-Methylphenol	560	U	560	24	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
3 & 4 Methylphenol	**46**	**J**	560	15	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Naphthalene	**27**	**J**	560	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
2-Methylnaphthalene	**20**	**J**	560	12	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
2-Chloronaphthalene	560	U	560	13	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Acenaphthylene	**20**	**J**	560	14	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Acenaphthene	**15**	**J**	560	13	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Dibenzofuran	**20**	**J**	560	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Fluorene	**22**	**J**	560	12	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Hexachlorobenzene	56	U	56	23	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Pentachlorophenol	450	U	450	67	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Phenanthrene	**220**	**J**	560	15	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Anthracene	**87**	**J**	560	53	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Fluoranthene	**640**		560	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Pyrene	**780**		560	25	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Benzo[a]anthracene	**360**		56	47	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Chrysene	**500**	**J**	560	15	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1

Client Sample ID: DUP005
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19
Matrix: Solid
Percent Solids: 59.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**680**		56	22	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Benzo[k]fluoranthene	**240**		56	24	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Benzo[a]pyrene	**390**		56	17	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Indeno[1,2,3-cd]pyrene	**460**	*	56	37	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Dibenz(a,h)anthracene	**120**		56	29	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1
Benzo[g,h,i]perylene	**430**	**J**	560	32	ug/Kg	☼	08/26/15 22:47	09/01/15 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*57*		*28 - 92*	*08/26/15 22:47*	*09/01/15 01:51*	*1*
2-Fluorobiphenyl	*66*		*27 - 84*	*08/26/15 22:47*	*09/01/15 01:51*	*1*
Terphenyl-d14 (Surr)	*81*		*16 - 114*	*08/26/15 22:47*	*09/01/15 01:51*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 95*	*08/26/15 22:47*	*09/01/15 01:51*	*1*
2-Fluorophenol (Surr)	*50*		*21 - 84*	*08/26/15 22:47*	*09/01/15 01:51*	*1*
Phenol-d5 (Surr)	*53*		*22 - 88*	*08/26/15 22:47*	*09/01/15 01:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.4	U	3.4	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
gamma-BHC (Lindane)	3.4	U	3.4	1.0	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
beta-BHC	3.4	U	3.4	1.1	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
delta-BHC	3.4	U	3.4	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Heptachlor	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Aldrin	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
gamma-Chlordane	11	U	11	2.4	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
alpha-Chlordane	11	U	11	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
4,4'-DDE	11	U	11	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Endosulfan I	11	U	11	1.6	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Dieldrin	3.4	U	3.4	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Endrin	11	U	11	1.4	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
4,4'-DDD	11	U	11	1.5	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Endosulfan II	11	U	11	1.8	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
4,4'-DDT	11	U	11	1.2	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Endosulfan sulfate	11	U	11	1.3	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Chlordane (technical)	110	U	110	50	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1
Mirex	11	U	11	2.2	ug/Kg	☼	08/27/15 06:30	08/30/15 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:23*	*1*
Tetrachloro-m-xylene	*137*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:23*	*1*
DCB Decachlorobiphenyl	*136*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:23*	*1*
DCB Decachlorobiphenyl	*127*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:23*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	57	U *	57	4.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2
PCB-1221	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2
PCB-1232	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2
PCB-1242	**450**		57	4.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2
PCB-1248	57	U	57	4.7	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2
PCB-1254	**380**		57	8.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2

Client Sample ID: DUP005
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19
Matrix: Solid
Percent Solids: 59.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	57	U *	57	8.4	ug/Kg	☼	08/25/15 10:45	09/23/15 16:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*27*	*X*	*30 - 130*	*08/25/15 10:45*	*09/23/15 16:54*	*2*
Tetrachloro-m-xylene	*26*	*X*	*30 - 130*	*08/25/15 10:45*	*09/23/15 16:54*	*2*
DCB Decachlorobiphenyl	*20*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 16:54*	*2*
DCB Decachlorobiphenyl	*22*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 16:54*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	29	U	29	19	ug/Kg	☼	08/26/15 11:22	09/02/15 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*129*	*p*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:13*	*1*
2,4-Dichlorophenylacetic acid	*307*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**14.5**		3.3	0.58	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Arsenic	**43.7**		4.9	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Barium	**20.0**	**J**	65.6	2.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Beryllium	0.66	U	0.66	0.56	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Cadmium	**2.9**		1.3	0.68	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Chromium	**24.1**		3.3	1.6	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Copper	**244**		8.2	2.1	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Manganese	**97.5**		4.9	1.7	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Nickel	**39.1**		13.1	2.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Lead	**172**		3.3	1.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Selenium	6.6	U	6.6	2.3	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4
Zinc	**179**		9.8	2.4	mg/Kg	☼	08/31/15 07:54	09/02/15 23:34	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.026	0.018	mg/Kg	☼	09/10/15 05:11	09/10/15 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	**4.2**		3.4	1.4	mg/Kg	☼	09/03/15 05:30	09/03/15 17:52	1
Chromium (hexavalent)	3.5	U	3.5	1.4	mg/Kg	☼	09/03/15 19:00	09/03/15 23:43	1
Cr (III)	**19.8**		2.0	2.0	mg/Kg			08/31/15 07:17	1
Cyanide, Total	**0.92**		0.33	0.053	mg/Kg	☼	08/27/15 13:30	08/27/15 19:53	2
Percent Solids	**59.2**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.458**		0.174	0.180	0.283	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-212	0.646	U	0.618	0.622	0.969	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-214	**0.492**		0.156	0.164	0.150	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-210	**2.14**		1.50	1.52	2.05	pCi/g	08/27/15 10:28	09/17/15 07:40	1

Client Sample ID: DUP005

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19

Matrix: Solid
Percent Solids: 59.2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**0.726**		0.134	0.163	0.127	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-214	**0.635**		0.128	0.144	0.126	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Potassium-40	**6.91**		1.30	1.48	0.910	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-231	0.212	U	0.219	0.220	2.52	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-226	**0.492**		0.156	0.164	0.150	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-228	**0.458**		0.174	0.180	0.283	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thallium-208	**0.278**		0.0653	0.0713	0.0489	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thorium-234	0.808	U	0.573	0.579	1.76	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-235	0.242	U	0.227	0.228	0.315	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-238	0.808	U	0.573	0.579	1.76	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-234m	0.739	U	4.15	4.15	11.4	pCi/g	08/27/15 10:28	09/17/15 07:40	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.497**		0.149	0.154	0.0863	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	**0.951**		0.201	0.216	0.0482	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	**0.452**		0.138	0.143	0.0427	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*95.0*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.761**		0.195	0.205	0.0863	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.00661	U	0.0318	0.0318	0.0859	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	**0.907**		0.212	0.225	0.0824	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.5*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.950**		0.234	0.244	0.283	pCi/g		09/21/15 22:06	1

Client Sample ID: TB1

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 20:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 20:06	1

Client Sample ID: TB1

Lab Sample ID: 200-29296-20

Date Collected: 08/14/15 00:00

Matrix: Water

Date Received: 08/15/15 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U	5.0	1.7	ug/L			08/27/15 20:06	1
Methylene Chloride	**0.38**	**J B**	1.0	0.23	ug/L			08/27/15 20:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 20:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 20:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 20:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 20:06	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 20:06	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 20:06	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 20:06	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 20:06	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 20:06	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 20:06	1
Toluene	1.0	U	1.0	0.22	ug/L			08/27/15 20:06	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 20:06	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 20:06	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 20:06	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 20:06	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 20:06	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 20:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 20:06	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 20:06	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 20:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 20:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 20:06	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/27/15 20:06*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*08/27/15 20:06*	*1*
4-Bromofluorobenzene	*107*		*80 - 125*		*08/27/15 20:06*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*08/27/15 20:06*	*1*

Client Sample ID: TB2

Lab Sample ID: 200-29296-21

Date Collected: 08/14/15 00:00

Matrix: Water

Date Received: 08/15/15 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 20:37	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 20:37	1
Acetone	**2.1**	**J**	5.0	1.7	ug/L			08/27/15 20:37	1
Methylene Chloride	1.0	U	1.0	0.23	ug/L			08/27/15 20:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 20:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 20:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1

Client Sample ID: TB2
Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-21
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 20:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 20:37	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 20:37	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 20:37	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 20:37	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 20:37	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 20:37	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 20:37	1
Toluene	1.0	U	1.0	0.22	ug/L			08/27/15 20:37	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 20:37	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 20:37	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 20:37	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 20:37	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 20:37	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 20:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 20:37	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 20:37	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 20:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 20:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 20:37	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/27/15 20:37*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*08/27/15 20:37*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/27/15 20:37*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*08/27/15 20:37*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(35-145)	(40-175)	(30-200)	(50-150)
200-29296-2	RXR5A/-9.6--9.9/14082015	100	118	154	104
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	105	135	171	111
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	107	122	150	111
200-29296-3	RXR5B/-9.9--10.4/14082015	95	143	163	108
200-29296-3 - RE	RXR5B/-9.9--10.4/14082015	96	137	203 X	108
200-29296-4	RXR5C/-10.4--10.9/14082015	88	114	121	99
200-29296-8	RXR7A/-8.7--9.9/14082015	96	120	136	104
200-29296-8 - RE	RXR7A/-8.7--9.9/14082015	135	113	105	123
200-29296-10	RXR7C/-10.4--10.9/14082015	100	118	138	105
200-29296-11	RXR8A/-9.3--9.9/14082015	110	129	165	111
200-29296-11 - RE	RXR8A/-9.3--9.9/14082015	109	108	125	127
200-29296-12	RXR8B/-9.9--10.4/14082015	94	116	144	103
200-29296-13	RXR8C/-10.4--10.9/14082015	100	121	139	107
200-29296-13 - RE	RXR8C/-10.4--10.9/14082015	104	121	153	121
200-29296-14	RXR4A/-6.2--10.9/14082015	97	114	130	105
200-29296-17	DUP003	99	107	116	106
200-29296-19	DUP005	96	132	149	105
200-29296-19 - RE	DUP005	97	123	142	109
LCS 200-93214/5	Lab Control Sample	107	108	107	109
LCS 200-93273/3	Lab Control Sample	106	111	106	109
LCS 200-93681/4	Lab Control Sample	97	100	96	98
MB 200-93214/7	Method Blank	102	105	107	106
MB 200-93273/5	Method Blank	89	94	95	94
MB 200-93681/6	Method Blank	97	101	103	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
200-29296-9	RXR7B/-9.9--10.4/14082015	108	109	108	110
LCS 200-93259/3-A	Lab Control Sample	103	111	103	111
MB 200-93259/1-A	Method Blank	107	111	105	109

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
200-29296-1	FB001_14082015	109	108	106	111
200-29296-20	TB1	110	110	107	112
200-29296-21	TB2	111	108	105	112
LCS 200-93257/4	Lab Control Sample	104	108	100	109
MB 200-93257/8	Method Blank	108	110	105	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	TBP	2FP	PHL
Lab Sample ID	Client Sample ID	(28-92)	(27-84)	(16-114)	(10-95)	(21-84)	(22-88)
200-29296-2	RXR5A/-9.6--9.9/14082015	80	79 *	45	62 *	67	61
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	73	72 *	40	61 *	62	56
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	71	71 *	39	55 *	58	52
200-29296-3	RXR5B/-9.9--10.4/14082015	48	52	39	55	46	44
200-29296-4	RXR5C/-10.4--10.9/14082015	63	69	57	32	53	53
200-29296-8	RXR7A/-8.7--9.9/14082015	42	49	34	47	42	42
200-29296-9	RXR7B/-9.9--10.4/14082015	67	80	89	77	57	62
200-29296-10	RXR7C/-10.4--10.9/14082015	61	72	84	75	56	57
200-29296-11	RXR8A/-9.3--9.9/14082015	60	71	91	79	55	58
200-29296-12	RXR8B/-9.9--10.4/14082015	57	68	81	73	51	55
200-29296-13	RXR8C/-10.4--10.9/14082015	61	73	84	74	54	59
200-29296-14	RXR4A/-6.2--10.9/14082015	66	71	120 X	115 X	61	64
200-29296-17	DUP003	63	71	108	117 X	60	62
200-29296-19	DUP005	57	66	81	73	50	53
LCS 460-318882/3-A	Lab Control Sample	77	80	77	85	70	73
LCS 460-319090/2-A	Lab Control Sample	82	86 X	87	77	77	77
MB 460-318882/1-A	Method Blank	79	74	81	75	72	71
MB 460-319090/1-A	Method Blank	80	81	94	70	77	74

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		FBP	TPH								
Lab Sample ID	Client Sample ID	(45-115)	(35-140)								
200-29296-1	FB001_14082015	98	99								
LCS 200-92841/2-A	Lab Control Sample	93	88								
MB 200-92841/1-A	Method Blank	91	93								

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(55-139)	(55-139)	(55-148)	(55-148)						
200-29296-2	RXR5A/-9.6--9.9/14082015	108	118	119	116						
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	113	123	124	121						
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	108	111	111	107						
200-29296-3	RXR5B/-9.9--10.4/14082015	103	103	106	103						
200-29296-4	RXR5C/-10.4--10.9/14082015	116	124	124	122						
200-29296-8	RXR7A/-8.7--9.9/14082015	112	116	119	114						
200-29296-9	RXR7B/-9.9--10.4/14082015	167 X	172 X	180 X	174 X						
200-29296-10	RXR7C/-10.4--10.9/14082015	114	118	119	117						
200-29296-11	RXR8A/-9.3--9.9/14082015	116	117	119	116						
200-29296-12	RXR8B/-9.9--10.4/14082015	138	144 X	143	137						
200-29296-13	RXR8C/-10.4--10.9/14082015	117	119	120	115						
200-29296-14	RXR4A/-6.2--10.9/14082015	126	129	130	126						
200-29296-17	DUP003	112	114	115	105						
200-29296-19	DUP005	133	137	136	127						
LCS 460-319136/2-A	Lab Control Sample	112	117	118	115						
LCS 460-319136/2-A - RA	Lab Control Sample	115	120	119	117						
MB 460-319136/1-A	Method Blank	114	118	117	115						
MB 460-319136/1-A - RA	Method Blank	115	119	120	117						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(45-115)	(45-115)						
200-29296-1	FB001_14082015	87	86	63	61						
LCS 200-92797/2-A	Lab Control Sample	87	89	95	95						
MB 200-92797/1-A	Method Blank	78	78	90	88						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-29296-2	RXR5A/-9.6--9.9/14082015	52	51	59	60
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	51	50	46	48
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	57	56	53	55
200-29296-3	RXR5B/-9.9--10.4/14082015	36	33	34 X	33 X
200-29296-4	RXR5C/-10.4--10.9/14082015	57	49	44 X	38 X
200-29296-8	RXR7A/-8.7--9.9/14082015	57	57	53	55
200-29296-9	RXR7B/-9.9--10.4/14082015	54	45	57	62
200-29296-10	RXR7C/-10.4--10.9/14082015	50	44	42 X	37 X
200-29296-11	RXR8A/-9.3--9.9/14082015	48	46	37 X	39 X
200-29296-12	RXR8B/-9.9--10.4/14082015	31	30	25 X	24 X
200-29296-13	RXR8C/-10.4--10.9/14082015	48	45	41 X	40 X
200-29296-14	RXR4A/-6.2--10.9/14082015	61	57	51	46
200-29296-17	DUP003	66	65	54	56
200-29296-19	DUP005	27 X	26 X	20 X	22 X
LCS 200-93141/2-B	Lab Control Sample	44	43	46	45
MB 200-93141/1-B	Method Blank	46	43	34 X	29 X
MB 200-93141/1-B	Method Blank	45	44	33 X	32 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-29296-1	FB001_14082015	62	61	22 X	21 X
LCS 200-92796/2-A	Lab Control Sample	65	63	64	65
MB 200-92796/1-A	Method Blank	40 X	58	40 p	70

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(83-150)	(83-150)
200-29296-2	RXR5A/-9.6--9.9/14082015	838 p X	3947 X
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	2584 p X	4206 X
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	1232 p X	4102 X
200-29296-3	RXR5B/-9.9--10.4/14082015	223 p X	457 X
200-29296-4	RXR5C/-10.4--10.9/14082015	170 p X	306 X
200-29296-8	RXR7A/-8.7--9.9/14082015	224 p X	728 X
200-29296-9	RXR7B/-9.9--10.4/14082015	1189 X	471 p X
200-29296-10	RXR7C/-10.4--10.9/14082015	585 X	672 X

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (83-150)	DCPA2 (83-150)
200-29296-11	RXR8A/-9.3--9.9/14082015	372 X	352 X
200-29296-12	RXR8B/-9.9--10.4/14082015	248 p X	454 X
200-29296-13	RXR8C/-10.4--10.9/14082015	209 p X	436 X
200-29296-14	RXR4A/-6.2--10.9/14082015	428 X	380 X
200-29296-17	DUP003	540 X	369 X
200-29296-19	DUP005	129 p	307 X
LCS 460-318962/2-A	Lab Control Sample	93	85
MB 460-318962/1-A	Method Blank	99	86

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (44-150)	DCPA2 (44-150)
200-29296-1	FB001_14082015	102	89
LCS 460-317297/2-A	Lab Control Sample	111	112
LCSD 460-317297/3-A	Lab Control Sample Dup	99	100
MB 460-317297/1-A	Method Blank	99	93

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Tracer/Carrier Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29296-2	RXR5A/-9.6--9.9/14082015	86.7
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	83.7
200-29296-3	RXR5B/-9.9--10.4/14082015	100
200-29296-4	RXR5C/-10.4--10.9/14082015	95.4
200-29296-8	RXR7A/-8.7--9.9/14082015	97.5
200-29296-9	RXR7B/-9.9--10.4/14082015	77.1
200-29296-10	RXR7C/-10.4--10.9/14082015	83.5
200-29296-11	RXR8A/-9.3--9.9/14082015	95.4
200-29296-12	RXR8B/-9.9--10.4/14082015	82.0
200-29296-13	RXR8C/-10.4--10.9/14082015	86.9
200-29296-14	RXR4A/-6.2--10.9/14082015	87.7
200-29296-17	DUP003	87.7
200-29296-19	DUP005	95.0
LCS 160-211086/2-A	Lab Control Sample	92.1
MB 160-211086/1-A	Method Blank	100

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29296-1	FB001_14082015	83.6
LCS 160-206670/2-A	Lab Control Sample	93.7
MB 160-206670/1-A	Method Blank	88.5

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29296-2	RXR5A/-9.6--9.9/14082015	89.9
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	82.1
200-29296-3	RXR5B/-9.9--10.4/14082015	86.3
200-29296-4	RXR5C/-10.4--10.9/14082015	91.4
200-29296-8	RXR7A/-8.7--9.9/14082015	84.6
200-29296-9	RXR7B/-9.9--10.4/14082015	87.6
200-29296-10	RXR7C/-10.4--10.9/14082015	93.8
200-29296-11	RXR8A/-9.3--9.9/14082015	88.3
200-29296-12	RXR8B/-9.9--10.4/14082015	95.9
200-29296-13	RXR8C/-10.4--10.9/14082015	88.2
200-29296-14	RXR4A/-6.2--10.9/14082015	89.8
200-29296-17	DUP003	89.4

Tracer/Carrier Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
200-29296-19	DUP005	86.5							
LCS 160-208695/2-A	Lab Control Sample	76.2							
MB 160-208695/1-A	Method Blank	86.9							

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)							
Lab Sample ID	Client Sample ID	U-232 (30-110)							
200-29296-1	FB001_14082015	80.9							
LCS 160-206674/2-A	Lab Control Sample	78.5							
MB 160-206674/1-A	Method Blank	83.1							

Tracer/Carrier Legend

U-232 = Uranium-232

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 92821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	8.6	U F2	134	134		ug/Kg	☼	100	75 - 120
1,1-Dichloroethene	8.6	U F2	134	115		ug/Kg	☼	86	80 - 120
Acetone	140	F2 F1	669	888		ug/Kg	☼	111	70 - 120
Methylene Chloride	8.6	U F2	134	117		ug/Kg	☼	87	75 - 120
trans-1,2-Dichloroethene	8.6	U F2	134	104		ug/Kg	☼	78	75 - 125
Methyl tert-butyl ether	8.6	U F2	134	129		ug/Kg	☼	97	70 - 120
1,3-Dichlorobenzene	5.3	J F2 F1 *	134	169	*	ug/Kg	☼	122	80 - 125
1,1-Dichloroethane	8.6	U F2	134	136		ug/Kg	☼	102	70 - 120
cis-1,2-Dichloroethene	8.6	U F2	134	121		ug/Kg	☼	91	75 - 120
2-Butanone (MEK)	61	F2	669	777		ug/Kg	☼	107	60 - 130
Chloroform	8.6	U F2	134	136		ug/Kg	☼	102	80 - 120
1,1,1-Trichloroethane	8.6	U F2	134	128		ug/Kg	☼	96	70 - 120
Carbon tetrachloride	8.6	U F2 F1	134	39.6	F1	ug/Kg	☼	30	70 - 120
Benzene	8.6	U F2	134	133		ug/Kg	☼	99	75 - 125
1,2-Dichloroethane	8.6	U F2	134	123		ug/Kg	☼	92	70 - 120
Trichloroethene	8.6	U F2	134	119		ug/Kg	☼	89	75 - 120
1,4-Dioxane	170	U F2	2680	2550		ug/Kg	☼	95	75 - 120
Toluene	8.6	U F2	134	162	*	ug/Kg	☼	121	80 - 125
Tetrachloroethene	8.6	U F2 F1	134	103	F1 *	ug/Kg	☼	77	80 - 125
Chlorobenzene	4.5	J F2	134	148	*	ug/Kg	☼	107	80 - 125
Ethylbenzene	8.6	U F2	134	111	*	ug/Kg	☼	83	80 - 125
m-Xylene & p-Xylene	3.7	J F2	134	114	*	ug/Kg	☼	83	80 - 125
o-Xylene	8.6	U F2	134	110	*	ug/Kg	☼	82	80 - 125
N-Propylbenzene	8.6	U F2 *	134	137	*	ug/Kg	☼	102	80 - 125
1,3,5-Trimethylbenzene	8.6	U F2 *	134	124	*	ug/Kg	☼	93	80 - 125
tert-Butylbenzene	8.6	U F2 *	134	107	*	ug/Kg	☼	80	75 - 120
1,2,4-Trimethylbenzene	8.6	U F2 *	134	133	*	ug/Kg	☼	100	80 - 125
sec-Butylbenzene	8.6	U F2 F1 *	134	87.2	F1 *	ug/Kg	☼	65	80 - 125
1,4-Dichlorobenzene	7.8	J F2 F1 *	134	185	F1 *	ug/Kg	☼	133	80 - 120
1,2-Dichlorobenzene	8.6	U F2 *	134	136	*	ug/Kg	☼	101	80 - 125
n-Butylbenzene	8.6	U F2 F1 *	134	74.9	F1 *	ug/Kg	☼	56	80 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*35 - 145*
Toluene-d8 (Surr)	*135*		*40 - 175*
4-Bromofluorobenzene	*171*		*30 - 200*
Dibromofluoromethane (Surr)	*111*		*50 - 150*

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 92821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	8.6	U F2	192	196	F2	ug/Kg	☼	102	75 - 120	38	30
1,1-Dichloroethene	8.6	U F2	192	170	F2	ug/Kg	☼	89	80 - 120	39	30
Acetone	140	F2 F1	959	1340	F1 F2	ug/Kg	☼	124	70 - 120	40	30
Methylene Chloride	8.6	U F2	192	180	F2	ug/Kg	☼	94	75 - 120	42	30
trans-1,2-Dichloroethene	8.6	U F2	192	164	F2	ug/Kg	☼	85	75 - 125	44	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 92821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	8.6	U F2	192	200	F2	ug/Kg	☼	104	70 - 120	43	30
1,3-Dichlorobenzene	5.3	J F2 F1 *	192	253	F1 * F2	ug/Kg	☼	129	80 - 125	40	30
1,1-Dichloroethane	8.6	U F2	192	202	F2	ug/Kg	☼	105	70 - 120	39	30
cis-1,2-Dichloroethene	8.6	U F2	192	190	F2	ug/Kg	☼	99	75 - 120	44	30
2-Butanone (MEK)	61	F2	959	1210	F2	ug/Kg	☼	120	60 - 130	43	30
Chloroform	8.6	U F2	192	205	F2	ug/Kg	☼	107	80 - 120	40	30
1,1,1-Trichloroethane	8.6	U F2	192	203	F2	ug/Kg	☼	106	70 - 120	45	30
Carbon tetrachloride	8.6	U F2 F1	192	111	F1 F2	ug/Kg	☼	58	70 - 120	95	30
Benzene	8.6	U F2	192	198	F2	ug/Kg	☼	103	75 - 125	39	30
1,2-Dichloroethane	8.6	U F2	192	192	F2	ug/Kg	☼	100	70 - 120	43	30
Trichloroethene	8.6	U F2	192	184	F2	ug/Kg	☼	96	75 - 120	43	30
1,4-Dioxane	170	U F2	3840	3950	F2	ug/Kg	☼	103	75 - 120	43	30
Toluene	8.6	U F2	192	221	F2	ug/Kg	☼	115	80 - 125	31	30
Tetrachloroethene	8.6	U F2 F1	192	165	F2	ug/Kg	☼	86	80 - 125	46	30
Chlorobenzene	4.5	J F2	192	214	F2	ug/Kg	☼	109	80 - 125	37	30
Ethylbenzene	8.6	U F2	192	169	F2	ug/Kg	☼	88	80 - 125	42	30
m-Xylene & p-Xylene	3.7	J F2	192	176	F2	ug/Kg	☼	90	80 - 125	42	30
o-Xylene	8.6	U F2	192	173	F2	ug/Kg	☼	90	80 - 125	45	30
N-Propylbenzene	8.6	U F2 *	192	218	* F2	ug/Kg	☼	113	80 - 125	46	30
1,3,5-Trimethylbenzene	8.6	U F2 *	192	191	* F2	ug/Kg	☼	100	80 - 125	42	30
tert-Butylbenzene	8.6	U F2 *	192	167	* F2	ug/Kg	☼	87	75 - 120	44	30
1,2,4-Trimethylbenzene	8.6	U F2 *	192	194	* F2	ug/Kg	☼	101	80 - 125	37	30
sec-Butylbenzene	8.6	U F2 F1 *	192	154	* F2	ug/Kg	☼	80	80 - 125	56	30
1,4-Dichlorobenzene	7.8	J F2 F1 *	192	270	F1 * F2	ug/Kg	☼	137	80 - 120	37	30
1,2-Dichlorobenzene	8.6	U F2 *	192	206	* F2	ug/Kg	☼	107	80 - 125	41	30
n-Butylbenzene	8.6	U F2 F1 *	192	119	* F1 F2	ug/Kg	☼	62	80 - 125	45	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*35 - 145*
Toluene-d8 (Surr)	*122*		*40 - 175*
4-Bromofluorobenzene	*150*		*30 - 200*
Dibromofluoromethane (Surr)	*111*		*50 - 150*

Lab Sample ID: MB 200-93214/7
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			08/26/15 17:38	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			08/26/15 17:38	1
Acetone	5.0	U	5.0	4.1	ug/Kg			08/26/15 17:38	1
Methylene Chloride	1.54	J	5.0	0.56	ug/Kg			08/26/15 17:38	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			08/26/15 17:38	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			08/26/15 17:38	1
1,3-Dichlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			08/26/15 17:38	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			08/26/15 17:38	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			08/26/15 17:38	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93214/7
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	5.0	U	5.0	0.44	ug/Kg			08/26/15 17:38	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			08/26/15 17:38	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			08/26/15 17:38	1
Benzene	5.0	U	5.0	0.43	ug/Kg			08/26/15 17:38	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			08/26/15 17:38	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			08/26/15 17:38	1
1,4-Dioxane	100	U	100	14	ug/Kg			08/26/15 17:38	1
Toluene	5.0	U	5.0	0.19	ug/Kg			08/26/15 17:38	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			08/26/15 17:38	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			08/26/15 17:38	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			08/26/15 17:38	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			08/26/15 17:38	1
Xylenes, Total	10	U	10	0.053	ug/Kg			08/26/15 17:38	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			08/26/15 17:38	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			08/26/15 17:38	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			08/26/15 17:38	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			08/26/15 17:38	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			08/26/15 17:38	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			08/26/15 17:38	1
1,2-Dichlorobenzene	5.0	U	5.0	0.13	ug/Kg			08/26/15 17:38	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			08/26/15 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*35 - 145*		*08/26/15 17:38*	*1*
Toluene-d8 (Surr)	*105*		*40 - 175*		*08/26/15 17:38*	*1*
4-Bromofluorobenzene	*107*		*30 - 200*		*08/26/15 17:38*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*		*08/26/15 17:38*	*1*

Lab Sample ID: LCS 200-93214/5
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	51.6		ug/Kg		103	75 - 120
1,1-Dichloroethene	50.0	41.2		ug/Kg		82	80 - 120
Acetone	250	235		ug/Kg		94	70 - 120
Methylene Chloride	50.0	45.5		ug/Kg		91	75 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	75 - 125
Methyl tert-butyl ether	50.0	46.3		ug/Kg		93	70 - 120
1,3-Dichlorobenzene	50.0	53.1		ug/Kg		106	80 - 125
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 120
cis-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	75 - 120
2-Butanone (MEK)	250	258		ug/Kg		103	60 - 130
Chloroform	50.0	49.8		ug/Kg		100	80 - 120
1,1,1-Trichloroethane	50.0	49.4		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	50.6		ug/Kg		101	70 - 120
Benzene	50.0	49.7		ug/Kg		99	75 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93214/5
Matrix: Solid
Analysis Batch: 93214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 120
Trichloroethene	50.0	52.1		ug/Kg		104	75 - 120
1,4-Dioxane	1000	1120		ug/Kg		112	75 - 120
Toluene	50.0	51.1		ug/Kg		102	80 - 125
Tetrachloroethene	50.0	52.1		ug/Kg		104	80 - 125
Chlorobenzene	50.0	52.1		ug/Kg		104	80 - 125
Ethylbenzene	50.0	51.9		ug/Kg		104	80 - 125
m-Xylene & p-Xylene	50.0	52.7		ug/Kg		105	80 - 125
o-Xylene	50.0	53.1		ug/Kg		106	80 - 125
N-Propylbenzene	50.0	52.3		ug/Kg		105	80 - 125
1,3,5-Trimethylbenzene	50.0	51.8		ug/Kg		104	80 - 125
tert-Butylbenzene	50.0	52.1		ug/Kg		104	75 - 120
1,2,4-Trimethylbenzene	50.0	51.3		ug/Kg		103	80 - 125
sec-Butylbenzene	50.0	52.5		ug/Kg		105	80 - 125
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	80 - 120
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	80 - 125
n-Butylbenzene	50.0	52.3		ug/Kg		105	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*35 - 145*
Toluene-d8 (Surr)	*108*		*40 - 175*
4-Bromofluorobenzene	*107*		*30 - 200*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: MB 200-93257/8
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
Acetone	5.0	U	5.0	1.7	ug/L			08/27/15 14:49	1
Methylene Chloride	0.408	J	1.0	0.23	ug/L			08/27/15 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/27/15 14:49	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
Benzene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/27/15 14:49	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/27/15 14:49	1
Toluene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93257/8
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/27/15 14:49	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/27/15 14:49	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/27/15 14:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/27/15 14:49	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/27/15 14:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/27/15 14:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/27/15 14:49	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/27/15 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/27/15 14:49*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*08/27/15 14:49*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/27/15 14:49*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*08/27/15 14:49*	*1*

Lab Sample ID: LCS 200-93257/4
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	24.8	25.7		ug/L		104	80 - 130
1,1-Dichloroethene	24.8	24.0		ug/L		97	80 - 120
Acetone	124	153		ug/L		123	15 - 200
Methylene Chloride	24.8	23.6		ug/L		95	80 - 120
trans-1,2-Dichloroethene	24.8	27.2		ug/L		110	80 - 125
Methyl tert-butyl ether	24.8	27.1		ug/L		109	80 - 120
1,3-Dichlorobenzene	24.8	26.9		ug/L		108	80 - 125
1,1-Dichloroethane	24.8	27.2		ug/L		110	80 - 120
cis-1,2-Dichloroethene	24.8	27.3		ug/L		110	80 - 125
2-Butanone (MEK)	124	149		ug/L		120	60 - 170
Chloroform	24.8	27.1		ug/L		109	75 - 120
1,1,1-Trichloroethane	24.8	27.0		ug/L		109	75 - 120
Carbon tetrachloride	24.8	28.4		ug/L		115	75 - 120
Benzene	24.8	27.2		ug/L		110	80 - 125
1,2-Dichloroethane	24.8	26.8		ug/L		108	70 - 120
Trichloroethene	24.8	27.8		ug/L		112	75 - 120
1,4-Dioxane	496	572		ug/L		115	75 - 140
Toluene	24.8	27.4		ug/L		111	80 - 120
Tetrachloroethene	24.8	27.5		ug/L		111	80 - 120
Chlorobenzene	24.8	26.8		ug/L		108	80 - 120
Ethylbenzene	24.8	27.0		ug/L		109	80 - 125
m-Xylene & p-Xylene	24.8	27.3		ug/L		110	80 - 125
o-Xylene	24.8	27.5		ug/L		111	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93257/4
Matrix: Water
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	24.8	27.3		ug/L		110	80 - 120
1,3,5-Trimethylbenzene	24.8	27.1		ug/L		109	80 - 120
tert-Butylbenzene	24.8	27.1		ug/L		109	75 - 120
1,2,4-Trimethylbenzene	24.8	26.6		ug/L		107	80 - 120
sec-Butylbenzene	24.8	27.0		ug/L		109	80 - 120
1,4-Dichlorobenzene	24.8	26.1		ug/L		105	80 - 125
1,2-Dichlorobenzene	24.8	26.5		ug/L		107	80 - 125
n-Butylbenzene	24.8	26.8		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: MB 200-93259/1-A
Matrix: Solid
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	100	U	100	8.3	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,1-Dichloroethene	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Acetone	500	U	500	120	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Methylene Chloride	36.7	J	100	23	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
trans-1,2-Dichloroethene	100	U	100	9.9	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Methyl tert-butyl ether	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,3-Dichlorobenzene	100	U	100	9.5	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,1-Dichloroethane	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
cis-1,2-Dichloroethene	100	U	100	10	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
2-Butanone (MEK)	500	U	500	59	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Chloroform	100	U	100	12	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,1,1-Trichloroethane	100	U	100	8.5	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Carbon tetrachloride	100	U	100	20	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Benzene	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,2-Dichloroethane	100	U	100	13	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Trichloroethene	100	U	100	8.3	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,4-Dioxane	4000	U	4000	650	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Toluene	100	U	100	21	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Tetrachloroethene	100	U	100	20	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Chlorobenzene	100	U	100	9.1	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Ethylbenzene	100	U	100	9.4	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
m-Xylene & p-Xylene	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
o-Xylene	100	U	100	10	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
Xylenes, Total	200	U	200	10	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
N-Propylbenzene	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,3,5-Trimethylbenzene	100	U	100	20	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
tert-Butylbenzene	100	U	100	14	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,2,4-Trimethylbenzene	100	U	100	10	ug/Kg		08/27/15 10:41	08/27/15 15:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93259/1-A
Matrix: Solid
Analysis Batch: 93257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	100	U	100	20	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
1,2-Dichlorobenzene	100	U	100	11	ug/Kg		08/27/15 10:41	08/27/15 15:21	1
n-Butylbenzene	100	U	100	9.0	ug/Kg		08/27/15 10:41	08/27/15 15:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*	*08/27/15 10:41*	*08/27/15 15:21*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*	*08/27/15 10:41*	*08/27/15 15:21*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*	*08/27/15 10:41*	*08/27/15 15:21*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*08/27/15 10:41*	*08/27/15 15:21*	*1*

Lab Sample ID: LCS 200-93259/3-A
Matrix: Solid
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	2480	2570		ug/Kg		103	80 - 130
1,1-Dichloroethene	2480	2450		ug/Kg		99	80 - 120
Acetone	12400	14900		ug/Kg		120	15 - 200
Methylene Chloride	2480	2390		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	2480	2730		ug/Kg		110	80 - 125
Methyl tert-butyl ether	2480	2670		ug/Kg		108	80 - 120
1,3-Dichlorobenzene	2480	2700		ug/Kg		109	80 - 125
1,1-Dichloroethane	2480	2760		ug/Kg		111	80 - 120
cis-1,2-Dichloroethene	2480	2720		ug/Kg		109	80 - 125
2-Butanone (MEK)	12400	14900		ug/Kg		120	60 - 170
Chloroform	2480	2700		ug/Kg		109	75 - 120
1,1,1-Trichloroethane	2480	2690		ug/Kg		108	75 - 120
Carbon tetrachloride	2480	2800		ug/Kg		113	75 - 120
Benzene	2480	2730		ug/Kg		110	80 - 125
1,2-Dichloroethane	2480	2610		ug/Kg		105	70 - 120
Trichloroethene	2480	2780		ug/Kg		112	75 - 120
1,4-Dioxane	49600	56300		ug/Kg		113	75 - 140
Toluene	2480	2770		ug/Kg		112	80 - 120
Tetrachloroethene	2480	2820		ug/Kg		114	80 - 120
Chlorobenzene	2480	2710		ug/Kg		109	80 - 120
Ethylbenzene	2480	2730		ug/Kg		110	80 - 125
m-Xylene & p-Xylene	2480	2730		ug/Kg		110	80 - 125
o-Xylene	2480	2760		ug/Kg		111	80 - 120
N-Propylbenzene	2480	2790		ug/Kg		112	80 - 120
1,3,5-Trimethylbenzene	2480	2740		ug/Kg		110	80 - 120
tert-Butylbenzene	2480	2740		ug/Kg		111	75 - 120
1,2,4-Trimethylbenzene	2480	2690		ug/Kg		108	80 - 120
sec-Butylbenzene	2480	2750		ug/Kg		111	80 - 120
1,4-Dichlorobenzene	2480	2690		ug/Kg		108	80 - 125
1,2-Dichlorobenzene	2480	2640		ug/Kg		106	80 - 125
n-Butylbenzene	2480	2700		ug/Kg		109	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93259/3-A
Matrix: Solid
Analysis Batch: 93257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93259

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene	*103*		*80 - 125*
Dibromofluoromethane (Surr)	*111*		*50 - 150*

Lab Sample ID: MB 200-93273/5
Matrix: Solid
Analysis Batch: 93273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			08/27/15 17:03	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			08/27/15 17:03	1
Acetone	5.0	U	5.0	4.1	ug/Kg			08/27/15 17:03	1
Methylene Chloride	0.906	J	5.0	0.56	ug/Kg			08/27/15 17:03	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			08/27/15 17:03	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			08/27/15 17:03	1
1,3-Dichlorobenzene	0.170	J	5.0	0.11	ug/Kg			08/27/15 17:03	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			08/27/15 17:03	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			08/27/15 17:03	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			08/27/15 17:03	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			08/27/15 17:03	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			08/27/15 17:03	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			08/27/15 17:03	1
Benzene	5.0	U	5.0	0.43	ug/Kg			08/27/15 17:03	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			08/27/15 17:03	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			08/27/15 17:03	1
1,4-Dioxane	100	U	100	14	ug/Kg			08/27/15 17:03	1
Toluene	5.0	U	5.0	0.19	ug/Kg			08/27/15 17:03	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			08/27/15 17:03	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/27/15 17:03	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			08/27/15 17:03	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			08/27/15 17:03	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			08/27/15 17:03	1
Xylenes, Total	10	U	10	0.053	ug/Kg			08/27/15 17:03	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			08/27/15 17:03	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			08/27/15 17:03	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			08/27/15 17:03	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			08/27/15 17:03	1
sec-Butylbenzene	0.122	J	5.0	0.11	ug/Kg			08/27/15 17:03	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			08/27/15 17:03	1
1,2-Dichlorobenzene	5.0	U	5.0	0.13	ug/Kg			08/27/15 17:03	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			08/27/15 17:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*35 - 145*		*08/27/15 17:03*	*1*
Toluene-d8 (Surr)	*94*		*40 - 175*		*08/27/15 17:03*	*1*
4-Bromofluorobenzene	*95*		*30 - 200*		*08/27/15 17:03*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93273/5
Matrix: Solid
Analysis Batch: 93273

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*94*		*50 - 150*		*08/27/15 17:03*	*1*

Lab Sample ID: LCS 200-93273/3
Matrix: Solid
Analysis Batch: 93273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	45.5		ug/Kg		91	75 - 120
1,1-Dichloroethene	50.0	41.4		ug/Kg		83	80 - 120
Acetone	250	249		ug/Kg		100	70 - 120
Methylene Chloride	50.0	45.3		ug/Kg		91	75 - 120
trans-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	75 - 125
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	70 - 120
1,3-Dichlorobenzene	50.0	53.2		ug/Kg		106	80 - 125
1,1-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 120
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	75 - 120
2-Butanone (MEK)	250	258		ug/Kg		103	60 - 130
Chloroform	50.0	49.8		ug/Kg		100	80 - 120
1,1,1-Trichloroethane	50.0	49.4		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	50.1		ug/Kg		100	70 - 120
Benzene	50.0	50.3		ug/Kg		101	75 - 125
1,2-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 120
Trichloroethene	50.0	53.2		ug/Kg		107	75 - 120
1,4-Dioxane	1000	1060		ug/Kg		106	75 - 120
Toluene	50.0	51.7		ug/Kg		103	80 - 125
Tetrachloroethene	50.0	52.7		ug/Kg		105	80 - 125
Chlorobenzene	50.0	53.8		ug/Kg		108	80 - 125
Ethylbenzene	50.0	55.1		ug/Kg		110	80 - 125
m-Xylene & p-Xylene	50.0	55.4		ug/Kg		111	80 - 125
o-Xylene	50.0	55.0		ug/Kg		110	80 - 125
N-Propylbenzene	50.0	54.9		ug/Kg		110	80 - 125
1,3,5-Trimethylbenzene	50.0	53.7		ug/Kg		107	80 - 125
tert-Butylbenzene	50.0	53.0		ug/Kg		106	75 - 120
1,2,4-Trimethylbenzene	50.0	53.6		ug/Kg		107	80 - 125
sec-Butylbenzene	50.0	55.6		ug/Kg		111	80 - 125
1,4-Dichlorobenzene	50.0	53.5		ug/Kg		107	80 - 120
1,2-Dichlorobenzene	50.0	52.2		ug/Kg		104	80 - 125
n-Butylbenzene	50.0	59.3		ug/Kg		119	80 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*35 - 145*
Toluene-d8 (Surr)	*111*		*40 - 175*
4-Bromofluorobenzene	*106*		*30 - 200*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93681/6
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			09/08/15 11:52	1
Acetone	5.0	U	5.0	4.1	ug/Kg			09/08/15 11:52	1
Methylene Chloride	5.0	U	5.0	0.56	ug/Kg			09/08/15 11:52	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			09/08/15 11:52	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			09/08/15 11:52	1
1,3-Dichlorobenzene	0.177	J	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			09/08/15 11:52	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			09/08/15 11:52	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			09/08/15 11:52	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			09/08/15 11:52	1
Benzene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			09/08/15 11:52	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			09/08/15 11:52	1
1,4-Dioxane	100	U	100	14	ug/Kg			09/08/15 11:52	1
Toluene	5.0	U	5.0	0.19	ug/Kg			09/08/15 11:52	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			09/08/15 11:52	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			09/08/15 11:52	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			09/08/15 11:52	1
Xylenes, Total	10	U	10	0.053	ug/Kg			09/08/15 11:52	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			09/08/15 11:52	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			09/08/15 11:52	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			09/08/15 11:52	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
1,2-Dichlorobenzene	0.206	J	5.0	0.13	ug/Kg			09/08/15 11:52	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			09/08/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*		*09/08/15 11:52*	*1*
Toluene-d8 (Surr)	*101*		*40 - 175*		*09/08/15 11:52*	*1*
4-Bromofluorobenzene	*103*		*30 - 200*		*09/08/15 11:52*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*09/08/15 11:52*	*1*

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	49.6		ug/Kg		99	75 - 120
1,1-Dichloroethene	50.0	50.6		ug/Kg		101	80 - 120
Acetone	250	185		ug/Kg		74	70 - 120
Methylene Chloride	50.0	46.4		ug/Kg		93	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	75 - 125
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	70 - 120
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 125
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 120
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	75 - 120
2-Butanone (MEK)	250	218		ug/Kg		87	60 - 130
Chloroform	50.0	48.8		ug/Kg		98	80 - 120
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	51.6		ug/Kg		103	70 - 120
Benzene	50.0	50.0		ug/Kg		100	75 - 125
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 120
Trichloroethene	50.0	52.0		ug/Kg		104	75 - 120
1,4-Dioxane	1000	1070		ug/Kg		107	75 - 120
Toluene	50.0	48.6		ug/Kg		97	80 - 125
Tetrachloroethene	50.0	49.6		ug/Kg		99	80 - 125
Chlorobenzene	50.0	48.6		ug/Kg		97	80 - 125
Ethylbenzene	50.0	50.1		ug/Kg		100	80 - 125
m-Xylene & p-Xylene	50.0	50.4		ug/Kg		101	80 - 125
o-Xylene	50.0	49.5		ug/Kg		99	80 - 125
N-Propylbenzene	50.0	49.0		ug/Kg		98	80 - 125
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	80 - 125
tert-Butylbenzene	50.0	47.8		ug/Kg		96	75 - 120
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	80 - 125
sec-Butylbenzene	50.0	49.8		ug/Kg		100	80 - 125
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	80 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/Kg		92	80 - 125
n-Butylbenzene	50.0	53.0		ug/Kg		106	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*
Toluene-d8 (Surr)	*100*		*40 - 175*
4-Bromofluorobenzene	*96*		*30 - 200*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-318882/1-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Methylphenol	330	U	330	14	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Naphthalene	330	U	330	8.4	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/26/15 08:36	08/27/15 14:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-318882/1-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	330	U	330	8.0	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Dibenzofuran	330	U	330	10	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Fluorene	330	U	330	7.2	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Anthracene	330	U	330	31	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Pyrene	330	U	330	15	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Chrysene	330	U	330	9.0	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/26/15 08:36	08/27/15 14:34	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/26/15 08:36	08/27/15 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*28 - 92*	*08/26/15 08:36*	*08/27/15 14:34*	*1*
2-Fluorobiphenyl	*74*		*27 - 84*	*08/26/15 08:36*	*08/27/15 14:34*	*1*
Terphenyl-d14 (Surr)	*81*		*16 - 114*	*08/26/15 08:36*	*08/27/15 14:34*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 95*	*08/26/15 08:36*	*08/27/15 14:34*	*1*
2-Fluorophenol (Surr)	*72*		*21 - 84*	*08/26/15 08:36*	*08/27/15 14:34*	*1*
Phenol-d5 (Surr)	*71*		*22 - 88*	*08/26/15 08:36*	*08/27/15 14:34*	*1*

Lab Sample ID: LCS 460-318882/3-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	2260		ug/Kg		68	55 - 99
2-Methylphenol	3330	2340		ug/Kg		70	56 - 99
3 & 4 Methylphenol	3330	2380		ug/Kg		71	51 - 105
Naphthalene	3330	2470		ug/Kg		74	64 - 99
2-Methylnaphthalene	3330	2550		ug/Kg		77	64 - 102
2-Chloronaphthalene	3330	2500		ug/Kg		75	63 - 102
Acenaphthylene	3330	2570		ug/Kg		77	63 - 102
Acenaphthene	3330	2630		ug/Kg		79	59 - 102
Dibenzofuran	3330	2600		ug/Kg		78	62 - 102
Fluorene	3330	2660		ug/Kg		80	65 - 108
Hexachlorobenzene	3330	2730		ug/Kg		82	65 - 117
Pentachlorophenol	6670	4880		ug/Kg		73	47 - 115
Phenanthrene	3330	2650		ug/Kg		80	66 - 105
Anthracene	3330	2640		ug/Kg		79	66 - 105
Fluoranthene	3330	2820		ug/Kg		85	59 - 109
Pyrene	3330	2440		ug/Kg		73	55 - 126
Benzo[a]anthracene	3330	2710		ug/Kg		81	65 - 106

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-318882/3-A
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	3330	2610		ug/Kg		78	64 - 105
Benzo[b]fluoranthene	3330	2770		ug/Kg		83	67 - 116
Benzo[k]fluoranthene	3330	2430		ug/Kg		73	65 - 114
Benzo[a]pyrene	3330	2690		ug/Kg		81	68 - 111
Indeno[1,2,3-cd]pyrene	3330	2820		ug/Kg		85	50 - 134
Dibenz(a,h)anthracene	3330	2810		ug/Kg		84	54 - 126
Benzo[g,h,i]perylene	3330	2670		ug/Kg		80	49 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*77*		*28 - 92*
2-Fluorobiphenyl	*80*		*27 - 84*
Terphenyl-d14 (Surr)	*77*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 95*
2-Fluorophenol (Surr)	*70*		*21 - 84*
Phenol-d5 (Surr)	*73*		*22 - 88*

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3500	U F1	7120	3570	F1	ug/Kg	☼	50	55 - 99
2-Methylphenol	3500	U F1	7120	3800	F1	ug/Kg	☼	53	56 - 99
3 & 4 Methylphenol	120	J	7120	3930		ug/Kg	☼	53	51 - 105
Naphthalene	180	J F1	7120	4590	F1	ug/Kg	☼	62	64 - 99
2-Methylnaphthalene	120	J F1	7120	4420	F1	ug/Kg	☼	60	64 - 102
2-Chloronaphthalene	3500	U * F1	7120	4480	*	ug/Kg	☼	63	63 - 102
Acenaphthylene	180	J * F1	7120	4680	*	ug/Kg	☼	63	63 - 102
Acenaphthene	110	J * F1	7120	4290	*	ug/Kg	☼	59	59 - 102
Dibenzofuran	3500	U * F1	7120	4430	*	ug/Kg	☼	62	62 - 102
Fluorene	3500	U * F1	7120	4420	* F1	ug/Kg	☼	62	65 - 108
Hexachlorobenzene	350	U * F1	7120	4640	*	ug/Kg	☼	65	65 - 117
Pentachlorophenol	2800	U *	14200	9950	*	ug/Kg	☼	70	47 - 115
Phenanthrene	920	J * F1	7120	5580	* F1	ug/Kg	☼	65	66 - 105
Anthracene	440	J * F1	7120	4680	* F1	ug/Kg	☼	60	66 - 105
Fluoranthene	3100	J *	7120	8770	*	ug/Kg	☼	80	59 - 109
Pyrene	1500	J F1	7120	4330	F1	ug/Kg	☼	40	55 - 126
Benzo[a]anthracene	950	F1	7120	5620		ug/Kg	☼	66	65 - 106
Chrysene	1300	J F1	7120	6150		ug/Kg	☼	68	64 - 105
Benzo[b]fluoranthene	1400	F1	7120	5120	F1	ug/Kg	☼	52	67 - 116
Benzo[k]fluoranthene	480	F1	7120	4580	F1	ug/Kg	☼	58	65 - 114
Benzo[a]pyrene	950	F1	7120	5340	F1	ug/Kg	☼	62	68 - 111
Indeno[1,2,3-cd]pyrene	690		7120	5200		ug/Kg	☼	63	50 - 134
Dibenz(a,h)anthracene	260	J F1	7120	4030	F1	ug/Kg	☼	53	54 - 126
Benzo[g,h,i]perylene	600	J F1	7120	4000	F1	ug/Kg	☼	48	49 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318882

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*73*		*28 - 92*
2-Fluorobiphenyl	*72*	*	*27 - 84*
Terphenyl-d14 (Surr)	*40*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*61*	*	*10 - 95*
2-Fluorophenol (Surr)	*62*		*21 - 84*
Phenol-d5 (Surr)	*56*		*22 - 88*

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 319220

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	3500	U F1	7110	3450	J F1	ug/Kg	☼	49	55 - 99	3	30
2-Methylphenol	3500	U F1	7110	3580	F1	ug/Kg	☼	50	56 - 99	6	30
3 & 4 Methylphenol	120	J	7110	3790		ug/Kg	☼	52	51 - 105	3	30
Naphthalene	180	J F1	7110	4260	F1	ug/Kg	☼	57	64 - 99	7	30
2-Methylnaphthalene	120	J F1	7110	4040	F1	ug/Kg	☼	55	64 - 102	9	30
2-Chloronaphthalene	3500	U * F1	7110	4400	* F1	ug/Kg	☼	62	63 - 102	2	30
Acenaphthylene	180	J * F1	7110	4450	* F1	ug/Kg	☼	60	63 - 102	5	30
Acenaphthene	110	J * F1	7110	4150	* F1	ug/Kg	☼	57	59 - 102	3	30
Dibenzofuran	3500	U * F1	7110	4240	* F1	ug/Kg	☼	60	62 - 102	4	30
Fluorene	3500	U * F1	7110	4200	* F1	ug/Kg	☼	59	65 - 108	5	30
Hexachlorobenzene	350	U * F1	7110	4470	* F1	ug/Kg	☼	63	65 - 117	4	30
Pentachlorophenol	2800	U *	14200	12000	*	ug/Kg	☼	84	47 - 115	19	30
Phenanthrene	920	J * F1	7110	4900	* F1	ug/Kg	☼	56	66 - 105	13	30
Anthracene	440	J * F1	7110	4520	* F1	ug/Kg	☼	57	66 - 105	3	30
Fluoranthene	3100	J *	7110	8500	*	ug/Kg	☼	77	59 - 109	3	30
Pyrene	1500	J F1	7110	3930	F1	ug/Kg	☼	35	55 - 126	10	30
Benzo[a]anthracene	950	F1	7110	5210	F1	ug/Kg	☼	60	65 - 106	8	30
Chrysene	1300	J F1	7110	5720	F1	ug/Kg	☼	62	64 - 105	7	30
Benzo[b]fluoranthene	1400	F1	7110	4920	F1	ug/Kg	☼	49	67 - 116	4	30
Benzo[k]fluoranthene	480	F1	7110	3890	F1	ug/Kg	☼	48	65 - 114	16	30
Benzo[a]pyrene	950	F1	7110	4860	F1	ug/Kg	☼	55	68 - 111	9	30
Indeno[1,2,3-cd]pyrene	690		7110	5010		ug/Kg	☼	61	50 - 134	4	30
Dibenz(a,h)anthracene	260	J F1	7110	3780	F1	ug/Kg	☼	49	54 - 126	7	30
Benzo[g,h,i]perylene	600	J F1	7110	3720	F1	ug/Kg	☼	44	49 - 124	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*71*		*28 - 92*
2-Fluorobiphenyl	*71*	*	*27 - 84*
Terphenyl-d14 (Surr)	*39*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*55*	*	*10 - 95*
2-Fluorophenol (Surr)	*58*		*21 - 84*
Phenol-d5 (Surr)	*52*		*22 - 88*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-319090/1-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Methylphenol	330	U	330	14	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Naphthalene	330	U	330	8.4	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Acenaphthene	330	U	330	8.0	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Dibenzofuran	330	U	330	10	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Fluorene	330	U	330	7.2	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Anthracene	330	U	330	31	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Pyrene	330	U	330	15	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Chrysene	330	U	330	9.0	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/26/15 22:47	08/27/15 06:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*28 - 92*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2-Fluorobiphenyl	*81*		*27 - 84*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
Terphenyl-d14 (Surr)	*94*		*16 - 114*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 95*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2-Fluorophenol (Surr)	*77*		*21 - 84*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
Phenol-d5 (Surr)	*74*		*22 - 88*	*08/26/15 22:47*	*08/27/15 06:23*	*1*

Lab Sample ID: LCS 460-319090/2-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	2800		ug/Kg		84	55 - 99
2-Methylphenol	3330	2770		ug/Kg		83	56 - 99
3 & 4 Methylphenol	3330	2840		ug/Kg		85	51 - 105
Naphthalene	3330	2890		ug/Kg		87	64 - 99
2-Methylnaphthalene	3330	2980		ug/Kg		89	64 - 102
2-Chloronaphthalene	3330	2950		ug/Kg		88	63 - 102
Acenaphthylene	3330	2900		ug/Kg		87	63 - 102
Acenaphthene	3330	2770		ug/Kg		83	59 - 102
Dibenzofuran	3330	2840		ug/Kg		85	62 - 102
Fluorene	3330	2870		ug/Kg		86	65 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-319090/2-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	3330	3350		ug/Kg		100	65 - 117
Pentachlorophenol	6670	5880		ug/Kg		88	47 - 115
Phenanthrene	3330	3050		ug/Kg		92	66 - 105
Anthracene	3330	3000		ug/Kg		90	66 - 105
Fluoranthene	3330	2780		ug/Kg		83	59 - 109
Pyrene	3330	2780		ug/Kg		83	55 - 126
Benzo[a]anthracene	3330	3000		ug/Kg		90	65 - 106
Chrysene	3330	3170		ug/Kg		95	64 - 105
Benzo[b]fluoranthene	3330	3010		ug/Kg		90	67 - 116
Benzo[k]fluoranthene	3330	3020		ug/Kg		91	65 - 114
Benzo[a]pyrene	3330	3190		ug/Kg		96	68 - 111
Indeno[1,2,3-cd]pyrene	3330	4480	*	ug/Kg		135	50 - 134
Dibenz(a,h)anthracene	3330	4190		ug/Kg		126	54 - 126
Benzo[g,h,i]perylene	3330	4080		ug/Kg		122	49 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*28 - 92*
2-Fluorobiphenyl	*86*	*X*	*27 - 84*
Terphenyl-d14 (Surr)	*87*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 95*
2-Fluorophenol (Surr)	*77*		*21 - 84*
Phenol-d5 (Surr)	*77*		*22 - 88*

Lab Sample ID: MB 200-92841/1-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	1.5	ug/L		08/18/15 12:14	09/02/15 09:38	1
2-Methylphenol	10	U	10	1.8	ug/L		08/18/15 12:14	09/02/15 09:38	1
3 & 4 Methylphenol	10	U	10	1.0	ug/L		08/18/15 12:14	09/02/15 09:38	1
Naphthalene	10	U	10	1.3	ug/L		08/18/15 12:14	09/02/15 09:38	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/18/15 12:14	09/02/15 09:38	1
2-Chloronaphthalene	10	U	10	1.3	ug/L		08/18/15 12:14	09/02/15 09:38	1
Acenaphthylene	10	U	10	0.92	ug/L		08/18/15 12:14	09/02/15 09:38	1
Acenaphthene	10	U	10	0.92	ug/L		08/18/15 12:14	09/02/15 09:38	1
Dibenzofuran	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1
Fluorene	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1
Hexachlorobenzene	10	U	10	1.0	ug/L		08/18/15 12:14	09/02/15 09:38	1
Pentachlorophenol	25	U	25	12	ug/L		08/18/15 12:14	09/02/15 09:38	1
Phenanthrene	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1
Anthracene	10	U	10	1.4	ug/L		08/18/15 12:14	09/02/15 09:38	1
Fluoranthene	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1
Pyrene	10	U	10	1.5	ug/L		08/18/15 12:14	09/02/15 09:38	1
Benzo[a]anthracene	10	U	10	1.3	ug/L		08/18/15 12:14	09/02/15 09:38	1
Chrysene	10	U	10	1.4	ug/L		08/18/15 12:14	09/02/15 09:38	1
Benzo[b]fluoranthene	10	U	10	2.0	ug/L		08/18/15 12:14	09/02/15 09:38	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-92841/1-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	10	U	10	0.87	ug/L		08/18/15 12:14	09/02/15 09:38	1
Indeno[1,2,3-cd]pyrene	10	U	10	0.89	ug/L		08/18/15 12:14	09/02/15 09:38	1
Dibenz(a,h)anthracene	10	U	10	1.2	ug/L		08/18/15 12:14	09/02/15 09:38	1
Benzo[g,h,i]perylene	10	U	10	1.3	ug/L		08/18/15 12:14	09/02/15 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*45 - 115*	*08/18/15 12:14*	*09/02/15 09:38*	*1*
Terphenyl-d14 (Surr)	*93*		*35 - 140*	*08/18/15 12:14*	*09/02/15 09:38*	*1*

Lab Sample ID: LCS 200-92841/2-A
Matrix: Water
Analysis Batch: 93507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	50.0	16.8		ug/L		34	20 - 70
2-Methylphenol	50.0	33.0		ug/L		66	55 - 110
3 & 4 Methylphenol	50.0	30.0		ug/L		60	50 - 100
Naphthalene	50.0	38.8		ug/L		78	60 - 115
2-Methylnaphthalene	50.0	38.5		ug/L		77	60 - 120
2-Chloronaphthalene	50.0	38.7		ug/L		77	55 - 115
Acenaphthylene	50.0	39.4		ug/L		79	60 - 115
Acenaphthene	50.0	39.5		ug/L		79	60 - 115
Dibenzofuran	50.0	39.5		ug/L		79	60 - 115
Fluorene	50.0	41.5		ug/L		83	65 - 120
Hexachlorobenzene	50.0	35.5		ug/L		71	60 - 120
Pentachlorophenol	100	69.4		ug/L		69	25 - 130
Phenanthrene	50.0	39.1		ug/L		78	60 - 115
Anthracene	50.0	39.5		ug/L		79	60 - 120
Fluoranthene	50.0	39.3		ug/L		79	55 - 125
Pyrene	50.0	36.9		ug/L		74	50 - 135
Benzo[a]anthracene	50.0	37.9		ug/L		76	60 - 120
Chrysene	50.0	38.4		ug/L		77	65 - 120
Benzo[b]fluoranthene	50.0	35.3		ug/L		71	35 - 150
Benzo[k]fluoranthene	50.0	38.6		ug/L		77	60 - 130
Benzo[a]pyrene	50.0	36.3		ug/L		73	50 - 130
Indeno[1,2,3-cd]pyrene	50.0	35.0		ug/L		70	30 - 140
Dibenz(a,h)anthracene	50.0	35.3		ug/L		71	30 - 145
Benzo[g,h,i]perylene	50.0	35.7		ug/L		71	35 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*93*		*45 - 115*
Terphenyl-d14 (Surr)	*88*		*35 - 140*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-319136/1-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.0	U	2.0	0.61	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
gamma-BHC (Lindane)	2.0	U	2.0	0.60	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
beta-BHC	2.0	U	2.0	0.65	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
delta-BHC	2.0	U	2.0	0.73	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Heptachlor	6.7	U	6.7	0.86	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Aldrin	6.7	U	6.7	0.81	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
gamma-Chlordane	6.7	U	6.7	1.5	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
alpha-Chlordane	6.7	U	6.7	1.1	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
4,4'-DDE	6.7	U	6.7	0.97	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Endosulfan I	6.7	U	6.7	0.93	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Dieldrin	2.0	U	2.0	0.87	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Endrin	6.7	U	6.7	0.85	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
4,4'-DDD	6.7	U	6.7	0.88	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Endosulfan II	6.7	U	6.7	1.1	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
4,4'-DDT	6.7	U	6.7	0.69	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Endosulfan sulfate	6.7	U	6.7	0.78	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Chlordane (technical)	67	U	67	30	ug/Kg		08/27/15 06:30	08/30/15 15:10	1
Mirex	6.7	U	6.7	1.3	ug/Kg		08/27/15 06:30	08/30/15 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*114*		*55 - 139*	*08/27/15 06:30*	*08/30/15 15:10*	*1*
Tetrachloro-m-xylene	*118*		*55 - 139*	*08/27/15 06:30*	*08/30/15 15:10*	*1*
DCB Decachlorobiphenyl	*117*		*55 - 148*	*08/27/15 06:30*	*08/30/15 15:10*	*1*
DCB Decachlorobiphenyl	*115*		*55 - 148*	*08/27/15 06:30*	*08/30/15 15:10*	*1*

Lab Sample ID: LCS 460-319136/2-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	133	149		ug/Kg		112	61 - 137
alpha-BHC	133	156		ug/Kg		117	61 - 137
gamma-BHC (Lindane)	133	155		ug/Kg		116	61 - 138
gamma-BHC (Lindane)	133	151		ug/Kg		113	61 - 138
beta-BHC	133	141		ug/Kg		106	59 - 136
beta-BHC	133	133		ug/Kg		100	59 - 136
delta-BHC	133	153		ug/Kg		115	60 - 139
delta-BHC	133	146		ug/Kg		110	60 - 139
Heptachlor	133	171		ug/Kg		128	61 - 135
Heptachlor	133	153		ug/Kg		114	61 - 135
Aldrin	133	151		ug/Kg		113	61 - 133
Aldrin	133	150		ug/Kg		113	61 - 133
gamma-Chlordane	133	153		ug/Kg		115	60 - 131
gamma-Chlordane	133	150		ug/Kg		113	60 - 131
alpha-Chlordane	133	147		ug/Kg		110	57 - 136
alpha-Chlordane	133	143		ug/Kg		107	57 - 136
4,4'-DDE	133	148		ug/Kg		111	61 - 135
4,4'-DDE	133	145		ug/Kg		109	61 - 135

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-319136/2-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I	133	149		ug/Kg		111	60 - 135
Endosulfan I	133	148		ug/Kg		111	60 - 135
Dieldrin	133	155		ug/Kg		116	61 - 137
Dieldrin	133	154		ug/Kg		116	61 - 137
Endrin	133	149		ug/Kg		112	59 - 133
Endrin	133	147		ug/Kg		110	59 - 133
4,4'-DDD	133	159		ug/Kg		119	61 - 140
4,4'-DDD	133	156		ug/Kg		117	61 - 140
Endosulfan II	133	150		ug/Kg		112	61 - 130
Endosulfan II	133	148		ug/Kg		111	61 - 130
4,4'-DDT	133	191	*	ug/Kg		143	59 - 133
4,4'-DDT	133	172		ug/Kg		129	59 - 133
Endosulfan sulfate	133	154		ug/Kg		116	60 - 129
Endosulfan sulfate	133	144		ug/Kg		108	60 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*112*		*55 - 139*
Tetrachloro-m-xylene	*117*		*55 - 139*
DCB Decachlorobiphenyl	*118*		*55 - 148*
DCB Decachlorobiphenyl	*115*		*55 - 148*

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	4.3	U	285	343		ug/Kg	☼	120	61 - 137
alpha-BHC	4.3	U	285	361		ug/Kg	☼	127	61 - 137
gamma-BHC (Lindane)	4.3	U	285	356		ug/Kg	☼	125	61 - 138
gamma-BHC (Lindane)	4.3	U	285	359		ug/Kg	☼	126	61 - 138
beta-BHC	4.3	U	285	326		ug/Kg	☼	114	59 - 136
beta-BHC	4.3	U	285	318		ug/Kg	☼	112	59 - 136
delta-BHC	4.3	U	285	353		ug/Kg	☼	124	60 - 139
delta-BHC	4.3	U	285	347		ug/Kg	☼	122	60 - 139
Heptachlor	14	U	285	392	F1	ug/Kg	☼	138	61 - 135
Heptachlor	14	U F1	285	355		ug/Kg	☼	125	61 - 135
Aldrin	14	U	285	346		ug/Kg	☼	121	61 - 133
Aldrin	14	U	285	348		ug/Kg	☼	122	61 - 133
gamma-Chlordane	14	U	285	352		ug/Kg	☼	124	60 - 131
gamma-Chlordane	14	U	285	345		ug/Kg	☼	121	60 - 131
alpha-Chlordane	14	U	285	338		ug/Kg	☼	119	57 - 136
alpha-Chlordane	14	U	285	329		ug/Kg	☼	115	57 - 136
4,4'-DDE	14	U	285	343		ug/Kg	☼	120	61 - 135
4,4'-DDE	14	U	285	340		ug/Kg	☼	119	61 - 135
Endosulfan I	14	U	285	341		ug/Kg	☼	120	60 - 135
Endosulfan I	14	U	285	341		ug/Kg	☼	120	60 - 135
Dieldrin	4.3	U	285	359		ug/Kg	☼	126	61 - 137
Dieldrin	4.3	U	285	356		ug/Kg	☼	125	61 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29296-2 MS — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319777 — **Prep Batch: 319136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	14	U	285	344		ug/Kg	☼	121	59 - 133
Endrin	14	U	285	340		ug/Kg	☼	119	59 - 133
4,4'-DDD	14	U	285	365		ug/Kg	☼	128	61 - 140
4,4'-DDD	14	U	285	364		ug/Kg	☼	128	61 - 140
Endosulfan II	14	U	285	346		ug/Kg	☼	121	61 - 130
Endosulfan II	14	U	285	342		ug/Kg	☼	120	61 - 130
4,4'-DDT	14	U F1	285	451	F1	ug/Kg	☼	158	59 - 133
4,4'-DDT	14	U F1 *	285	406	F1	ug/Kg	☼	142	59 - 133
Endosulfan sulfate	14	U	285	356		ug/Kg	☼	125	60 - 129
Endosulfan sulfate	14	U	285	331		ug/Kg	☼	116	60 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*55 - 139*
Tetrachloro-m-xylene	*123*		*55 - 139*
DCB Decachlorobiphenyl	*124*		*55 - 148*
DCB Decachlorobiphenyl	*121*		*55 - 148*

Lab Sample ID: 200-29296-2 MSD — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319777 — **Prep Batch: 319136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	4.3	U	285	295		ug/Kg	☼	103	61 - 137	15	30
alpha-BHC	4.3	U	285	303		ug/Kg	☼	106	61 - 137	18	30
gamma-BHC (Lindane)	4.3	U	285	307		ug/Kg	☼	108	61 - 138	16	30
gamma-BHC (Lindane)	4.3	U	285	301		ug/Kg	☼	105	61 - 138	17	30
beta-BHC	4.3	U	285	283		ug/Kg	☼	99	59 - 136	14	30
beta-BHC	4.3	U	285	263		ug/Kg	☼	92	59 - 136	19	30
delta-BHC	4.3	U	285	295		ug/Kg	☼	103	60 - 139	18	30
delta-BHC	4.3	U	285	286		ug/Kg	☼	100	60 - 139	19	30
Heptachlor	14	U	285	342		ug/Kg	☼	120	61 - 135	14	30
Heptachlor	14	U F1	285	307		ug/Kg	☼	108	61 - 135	14	30
Aldrin	14	U	285	302		ug/Kg	☼	106	61 - 133	14	30
Aldrin	14	U	285	302		ug/Kg	☼	106	61 - 133	14	30
gamma-Chlordane	14	U	285	297		ug/Kg	☼	104	60 - 131	17	30
gamma-Chlordane	14	U	285	293		ug/Kg	☼	103	60 - 131	16	30
alpha-Chlordane	14	U	285	292		ug/Kg	☼	102	57 - 136	15	30
alpha-Chlordane	14	U	285	280		ug/Kg	☼	98	57 - 136	16	30
4,4'-DDE	14	U	285	299		ug/Kg	☼	105	61 - 135	14	30
4,4'-DDE	14	U	285	292		ug/Kg	☼	102	61 - 135	15	30
Endosulfan I	14	U	285	296		ug/Kg	☼	104	60 - 135	14	30
Endosulfan I	14	U	285	294		ug/Kg	☼	103	60 - 135	15	30
Dieldrin	4.3	U	285	307		ug/Kg	☼	108	61 - 137	16	30
Dieldrin	4.3	U	285	302		ug/Kg	☼	106	61 - 137	16	30
Endrin	14	U	285	297		ug/Kg	☼	104	59 - 133	15	30
Endrin	14	U	285	291		ug/Kg	☼	102	59 - 133	15	30
4,4'-DDD	14	U	285	309		ug/Kg	☼	108	61 - 140	17	30
4,4'-DDD	14	U	285	304		ug/Kg	☼	107	61 - 140	18	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	14	U	285	292		ug/Kg	☼	102	61 - 130	17	30
Endosulfan II	14	U	285	285		ug/Kg	☼	100	61 - 130	18	30
4,4'-DDT	14	U F1	285	389	F1	ug/Kg	☼	136	59 - 133	15	30
4,4'-DDT	14	U F1 *	285	346		ug/Kg	☼	121	59 - 133	16	30
Endosulfan sulfate	14	U	285	293		ug/Kg	☼	103	60 - 129	19	30
Endosulfan sulfate	14	U	285	271		ug/Kg	☼	95	60 - 129	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*108*		*55 - 139*
Tetrachloro-m-xylene	*111*		*55 - 139*
DCB Decachlorobiphenyl	*111*		*55 - 148*
DCB Decachlorobiphenyl	*107*		*55 - 148*

Lab Sample ID: MB 200-92797/1-A
Matrix: Water
Analysis Batch: 93421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.050	U	0.050	0.0016	ug/L		08/17/15 09:13	08/31/15 21:01	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0010	ug/L		08/17/15 09:13	08/31/15 21:01	1
beta-BHC	0.050	U	0.050	0.011	ug/L		08/17/15 09:13	08/31/15 21:01	1
delta-BHC	0.050	U	0.050	0.0015	ug/L		08/17/15 09:13	08/31/15 21:01	1
Heptachlor	0.050	U	0.050	0.0013	ug/L		08/17/15 09:13	08/31/15 21:01	1
Aldrin	0.050	U	0.050	0.00092	ug/L		08/17/15 09:13	08/31/15 21:01	1
gamma-Chlordane	0.050	U	0.050	0.0011	ug/L		08/17/15 09:13	08/31/15 21:01	1
alpha-Chlordane	0.050	U	0.050	0.0010	ug/L		08/17/15 09:13	08/31/15 21:01	1
4,4'-DDE	0.050	U	0.050	0.0016	ug/L		08/17/15 09:13	08/31/15 21:01	1
Endosulfan I	0.050	U	0.050	0.00086	ug/L		08/17/15 09:13	08/31/15 21:01	1
Dieldrin	0.050	U	0.050	0.0016	ug/L		08/17/15 09:13	08/31/15 21:01	1
Endrin	0.050	U	0.050	0.0022	ug/L		08/17/15 09:13	08/31/15 21:01	1
4,4'-DDD	0.050	U	0.050	0.0013	ug/L		08/17/15 09:13	08/31/15 21:01	1
Endosulfan II	0.050	U	0.050	0.0016	ug/L		08/17/15 09:13	08/31/15 21:01	1
4,4'-DDT	0.050	U	0.050	0.0026	ug/L		08/17/15 09:13	08/31/15 21:01	1
Endosulfan sulfate	0.050	U	0.050	0.0017	ug/L		08/17/15 09:13	08/31/15 21:01	1
Chlordane (technical)	0.50	U	0.50	0.0041	ug/L		08/17/15 09:13	08/31/15 21:01	1
Mirex	0.10	U	0.10	0.10	ug/L		08/17/15 09:13	08/31/15 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*50 - 120*	*08/17/15 09:13*	*08/31/15 21:01*	*1*
Tetrachloro-m-xylene	*78*		*50 - 120*	*08/17/15 09:13*	*08/31/15 21:01*	*1*
DCB Decachlorobiphenyl	*90*		*45 - 115*	*08/17/15 09:13*	*08/31/15 21:01*	*1*
DCB Decachlorobiphenyl	*88*		*45 - 115*	*08/17/15 09:13*	*08/31/15 21:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 200-92797/2-A
Matrix: Water
Analysis Batch: 93421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.200	0.183		ug/L		91	80 - 110
gamma-BHC (Lindane)	0.200	0.176		ug/L		88	85 - 115
beta-BHC	0.200	0.183		ug/L		92	70 - 135
delta-BHC	0.200	0.179		ug/L		90	85 - 115
Heptachlor	0.200	0.166		ug/L		83	70 - 110
Aldrin	0.200	0.163		ug/L		82	55 - 115
gamma-Chlordane	0.200	0.179		ug/L		89	80 - 115
alpha-Chlordane	0.200	0.181		ug/L		90	75 - 120
4,4'-DDE	0.200	0.176		ug/L		88	80 - 110
Endosulfan I	0.200	0.127		ug/L		64	60 - 125
Dieldrin	0.200	0.177		ug/L		88	50 - 140
Endrin	0.200	0.193		ug/L		96	40 - 150
4,4'-DDD	0.200	0.190		ug/L		95	80 - 115
Endosulfan II	0.200	0.145		ug/L		72	55 - 125
4,4'-DDT	0.200	0.196		ug/L		98	80 - 120
Endosulfan sulfate	0.200	0.181		ug/L		90	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*50 - 120*
Tetrachloro-m-xylene	*89*		*50 - 120*
DCB Decachlorobiphenyl	*95*		*45 - 115*
DCB Decachlorobiphenyl	*95*		*45 - 115*

Method: 8081B - Organochlorine Pesticides (GC) - RA

Lab Sample ID: MB 460-319136/1-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC - RA	2.0	U	2.0	0.61	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
gamma-BHC (Lindane) - RA	2.0	U	2.0	0.60	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
beta-BHC - RA	2.0	U	2.0	0.65	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
delta-BHC - RA	2.0	U	2.0	0.73	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Heptachlor - RA	6.7	U	6.7	0.86	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Aldrin - RA	6.7	U	6.7	0.81	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
gamma-Chlordane - RA	6.7	U	6.7	1.5	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
alpha-Chlordane - RA	6.7	U	6.7	1.1	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
4,4'-DDE - RA	6.7	U	6.7	0.97	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Endosulfan I - RA	6.7	U	6.7	0.93	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Dieldrin - RA	2.0	U	2.0	0.87	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Endrin - RA	6.7	U	6.7	0.85	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
4,4'-DDD - RA	6.7	U	6.7	0.88	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Endosulfan II - RA	6.7	U	6.7	1.1	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
4,4'-DDT - RA	6.7	U	6.7	0.69	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Endosulfan sulfate - RA	6.7	U	6.7	0.78	ug/Kg		08/27/15 06:30	08/30/15 18:49	1
Chlordane (technical) - RA	67	U	67	30	ug/Kg		08/27/15 06:30	08/30/15 18:49	1

Method: 8081B - Organochlorine Pesticides (GC) - RA (Continued)

Lab Sample ID: MB 460-319136/1-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mirex - RA	6.7	U	6.7	1.3	ug/Kg		08/27/15 06:30	08/30/15 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene - RA	*115*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:49*	*1*
Tetrachloro-m-xylene - RA	*119*		*55 - 139*	*08/27/15 06:30*	*08/30/15 18:49*	*1*
DCB Decachlorobiphenyl - RA	*120*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:49*	*1*
DCB Decachlorobiphenyl - RA	*117*		*55 - 148*	*08/27/15 06:30*	*08/30/15 18:49*	*1*

Lab Sample ID: LCS 460-319136/2-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC - RA	133	145		ug/Kg		109	61 - 137
alpha-BHC - RA	133	151		ug/Kg		113	61 - 137
gamma-BHC (Lindane) - RA	133	152		ug/Kg		114	61 - 138
gamma-BHC (Lindane) - RA	133	151		ug/Kg		113	61 - 138
beta-BHC - RA	133	141		ug/Kg		105	59 - 136
beta-BHC - RA	133	134		ug/Kg		101	59 - 136
delta-BHC - RA	133	148		ug/Kg		111	60 - 139
delta-BHC - RA	133	145		ug/Kg		109	60 - 139
Heptachlor - RA	133	166		ug/Kg		124	61 - 135
Heptachlor - RA	133	149		ug/Kg		112	61 - 135
Aldrin - RA	133	146		ug/Kg		110	61 - 133
Aldrin - RA	133	146		ug/Kg		110	61 - 133
gamma-Chlordane - RA	133	148		ug/Kg		111	60 - 131
gamma-Chlordane - RA	133	145		ug/Kg		109	60 - 131
alpha-Chlordane - RA	133	143		ug/Kg		107	57 - 136
alpha-Chlordane - RA	133	138		ug/Kg		103	57 - 136
4,4'-DDE - RA	133	144		ug/Kg		108	61 - 135
4,4'-DDE - RA	133	141		ug/Kg		106	61 - 135
Endosulfan I - RA	133	144		ug/Kg		108	60 - 135
Endosulfan I - RA	133	142		ug/Kg		107	60 - 135
Dieldrin - RA	133	150		ug/Kg		113	61 - 137
Dieldrin - RA	133	148		ug/Kg		111	61 - 137
Endrin - RA	133	144		ug/Kg		108	59 - 133
Endrin - RA	133	141		ug/Kg		106	59 - 133
4,4'-DDD - RA	133	155		ug/Kg		116	61 - 140
4,4'-DDD - RA	133	151		ug/Kg		113	61 - 140
Endosulfan II - RA	133	145		ug/Kg		109	61 - 130
Endosulfan II - RA	133	143		ug/Kg		107	61 - 130
4,4'-DDT - RA	133	186	*	ug/Kg		140	59 - 133
4,4'-DDT - RA	133	166		ug/Kg		124	59 - 133
Endosulfan sulfate - RA	133	149		ug/Kg		111	60 - 129
Endosulfan sulfate - RA	133	142		ug/Kg		106	60 - 129

Method: 8081B - Organochlorine Pesticides (GC) - RA (Continued)

Lab Sample ID: LCS 460-319136/2-A
Matrix: Solid
Analysis Batch: 319777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene - RA	*115*		*55 - 139*
Tetrachloro-m-xylene - RA	*120*		*55 - 139*
DCB Decachlorobiphenyl - RA	*119*		*55 - 148*
DCB Decachlorobiphenyl - RA	*117*		*55 - 148*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-92796/1-A
Matrix: Water
Analysis Batch: 93005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.057	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1221	0.50	U	0.50	0.057	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1232	0.50	U	0.50	0.057	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1242	0.50	U	0.50	0.057	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1248	0.50	U	0.50	0.057	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1254	0.50	U	0.50	0.024	ug/L		08/17/15 09:09	08/21/15 08:52	1
PCB-1260	0.50	U	0.50	0.024	ug/L		08/17/15 09:09	08/21/15 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*40*	*X*	*55 - 120*	*08/17/15 09:09*	*08/21/15 08:52*	*1*
Tetrachloro-m-xylene	*58*		*55 - 120*	*08/17/15 09:09*	*08/21/15 08:52*	*1*
DCB Decachlorobiphenyl	*40*	*p*	*30 - 150*	*08/17/15 09:09*	*08/21/15 08:52*	*1*
DCB Decachlorobiphenyl	*70*		*30 - 150*	*08/17/15 09:09*	*08/21/15 08:52*	*1*

Lab Sample ID: LCS 200-92796/2-A
Matrix: Water
Analysis Batch: 93005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	3.48		ug/L		70	55 - 120
PCB-1260	5.00	3.29		ug/L		66	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*55 - 120*
Tetrachloro-m-xylene	*63*		*55 - 120*
DCB Decachlorobiphenyl	*64*		*30 - 150*
DCB Decachlorobiphenyl	*65*		*30 - 150*

Lab Sample ID: MB 200-93141/1-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1221	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 200-93141/1-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1242	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1248	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1254	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/22/15 14:50	1
PCB-1260	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/22/15 14:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*30 - 130*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
Tetrachloro-m-xylene	*43*		*30 - 130*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
DCB Decachlorobiphenyl	*34*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 14:50*	*1*
DCB Decachlorobiphenyl	*29*	*X*	*45 - 125*	*08/25/15 10:45*	*09/22/15 14:50*	*1*

Lab Sample ID: MB 200-93141/1-B
Matrix: Solid
Analysis Batch: 94400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1221	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1232	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1242	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1248	17	U	17	1.4	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1254	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/23/15 17:10	1
PCB-1260	17	U	17	2.5	ug/Kg		08/25/15 10:45	09/23/15 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 130*	*08/25/15 10:45*	*09/23/15 17:10*	*1*
Tetrachloro-m-xylene	*44*		*30 - 130*	*08/25/15 10:45*	*09/23/15 17:10*	*1*
DCB Decachlorobiphenyl	*33*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 17:10*	*1*
DCB Decachlorobiphenyl	*32*	*X*	*45 - 125*	*08/25/15 10:45*	*09/23/15 17:10*	*1*

Lab Sample ID: LCS 200-93141/2-B
Matrix: Solid
Analysis Batch: 94400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	74.7	*	ug/Kg		45	55 - 120		
PCB-1260			167	79.0	*	ug/Kg		47	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*44*		*30 - 130*
Tetrachloro-m-xylene	*43*		*30 - 130*
DCB Decachlorobiphenyl	*46*		*45 - 125*
DCB Decachlorobiphenyl	*45*		*45 - 125*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 94400

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 93141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	74	U * F1	374	530	F1	ug/Kg	☼	142	55 - 120
PCB-1260	74	U * F1	374	522	F1	ug/Kg	☼	140	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*51*		*30 - 130*
Tetrachloro-m-xylene	*50*		*30 - 130*
DCB Decachlorobiphenyl	*46*		*45 - 125*
DCB Decachlorobiphenyl	*48*		*45 - 125*

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 94400

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 93141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	74	U * F1	339	647	E F1	ug/Kg	☼	191	55 - 120	20	30
PCB-1260	74	U * F1	339	602	F1	ug/Kg	☼	178	55 - 125	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 130*
Tetrachloro-m-xylene	*56*		*30 - 130*
DCB Decachlorobiphenyl	*53*		*45 - 125*
DCB Decachlorobiphenyl	*55*		*45 - 125*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-317297/1-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.60	U	0.60	0.11	ug/L		08/18/15 11:10	08/19/15 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*44 - 150*	*08/18/15 11:10*	*08/19/15 14:54*	*1*
2,4-Dichlorophenylacetic acid	*93*		*44 - 150*	*08/18/15 11:10*	*08/19/15 14:54*	*1*

Lab Sample ID: LCS 460-317297/2-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)	10.0	9.29		ug/L		93	79 - 150
Silvex (2,4,5-TP)	10.0	12.1		ug/L		121	79 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*111*		*44 - 150*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 460-317297/2-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317297

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	112		44 - 150

Lab Sample ID: LCSD 460-317297/3-A
Matrix: Water
Analysis Batch: 317534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)			10.0	8.45		ug/L		85	79 - 150	9	30
Silvex (2,4,5-TP)			10.0	9.53		ug/L		95	79 - 150	23	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	99		44 - 150
2,4-Dichlorophenylacetic acid	100		44 - 150

Lab Sample ID: MB 460-318962/1-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	11	ug/Kg		08/26/15 11:22	08/27/15 08:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	99		83 - 150	08/26/15 11:22	08/27/15 08:00	1
2,4-Dichlorophenylacetic acid	86		83 - 150	08/26/15 11:22	08/27/15 08:00	1

Lab Sample ID: LCS 460-318962/2-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318962

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)			167	182		ug/Kg		109	73 - 150
Silvex (2,4,5-TP)			167	186		ug/Kg		112	73 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	93		83 - 150
2,4-Dichlorophenylacetic acid	85		83 - 150

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318962

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)	36	U F1	356	36	U F1	ug/Kg	☼	0	73 - 150
Silvex (2,4,5-TP)	36	U F1	356	36	U F1	ug/Kg	☼	0	73 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	2584	p X	83 - 150

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318962

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	4206	X	83 - 150

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 318962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	36	U F1	356	36	U F1	ug/Kg	☼	0	73 - 150	NC	30
Silvex (2,4,5-TP)	36	U F1	356	36	U F1	ug/Kg	☼	0	73 - 150	NC	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	1232	p X	83 - 150
2,4-Dichlorophenylacetic acid	4102	X	83 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-318031/1-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/21/15 09:50	08/25/15 17:09	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/21/15 09:50	08/25/15 17:09	1
Barium	200	U	200	5.5	ug/L		08/21/15 09:50	08/25/15 17:09	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/21/15 09:50	08/25/15 17:09	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/21/15 09:50	08/25/15 17:09	1
Chromium	10.0	U	10.0	4.5	ug/L		08/21/15 09:50	08/25/15 17:09	1
Copper	25.0	U	25.0	5.0	ug/L		08/21/15 09:50	08/25/15 17:09	1
Manganese	15.0	U	15.0	4.9	ug/L		08/21/15 09:50	08/25/15 17:09	1
Nickel	40.0	U	40.0	5.4	ug/L		08/21/15 09:50	08/25/15 17:09	1
Lead	10.0	U	10.0	4.2	ug/L		08/21/15 09:50	08/25/15 17:09	1
Selenium	20.0	U	20.0	6.8	ug/L		08/21/15 09:50	08/25/15 17:09	1
Zinc	30.0	U	30.0	5.9	ug/L		08/21/15 09:50	08/25/15 17:09	1

Lab Sample ID: LCS 460-318031/2-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	46.63		ug/L		93	80 - 120
Arsenic	2000	1974		ug/L		99	80 - 120
Barium	2000	2060		ug/L		103	80 - 120
Beryllium	50.0	49.51		ug/L		99	80 - 120
Cadmium	50.0	51.39		ug/L		103	80 - 120
Chromium	200	204.5		ug/L		102	80 - 120
Copper	250	223.9		ug/L		90	80 - 120
Manganese	500	495.0		ug/L		99	80 - 120
Nickel	500	526.5		ug/L		105	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 460-318031/2-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	516.3		ug/L		103	80 - 120
Selenium	2000	1960		ug/L		98	80 - 120
Zinc	500	525.4		ug/L		105	80 - 120

Lab Sample ID: MB 460-319872/1-A ^2
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.18	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Barium	20.0	U	20.0	0.72	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Chromium	1.0	U	1.0	0.48	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Copper	2.5	U	2.5	0.65	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Manganese	1.5	U	1.5	0.53	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Nickel	4.0	U	4.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Lead	1.0	U	1.0	0.39	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Selenium	2.0	U	2.0	0.69	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Zinc	3.0	U	3.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2

Lab Sample ID: LCSSRM 460-319872/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.9	38.37		mg/Kg		93.8	75.1 - 124.7
Arsenic	98.5	88.25		mg/Kg		89.6	77.8 - 122.8
Barium	308	290.3		mg/Kg		94.3	82.5 - 117.5
Beryllium	66.0	58.97		mg/Kg		89.3	83.0 - 116.8
Cadmium	146	134.7		mg/Kg		92.3	82.9 - 117.8
Chromium	182	186.3		mg/Kg		102.3	79.7 - 120.3
Copper	106	108.0		mg/Kg		101.9	81.5 - 118.9
Manganese	410	375.9		mg/Kg		91.7	81.2 - 119.0
Nickel	149	147.6		mg/Kg		99.0	82.6 - 117.4
Lead	130	120.1		mg/Kg		92.4	82.3 - 117.7
Selenium	154	132.4		mg/Kg		86.0	77.9 - 122.1
Zinc	191	176.8		mg/Kg		92.6	83.2 - 116.8

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	136		10.3	147.6	4	mg/Kg	☼	110	75 - 125
Arsenic	51.5		411	415.9		mg/Kg	☼	89	75 - 125
Barium	151		411	506.8		mg/Kg	☼	87	75 - 125
Beryllium	1.3		10.3	10.42		mg/Kg	☼	89	75 - 125
Cadmium	24.5		10.3	34.03		mg/Kg	☼	93	75 - 125
Chromium	112		41.1	159.5		mg/Kg	☼	115	75 - 125
Copper	1230		51.4	1324	4	mg/Kg	☼	184	75 - 125
Manganese	227		103	326.8		mg/Kg	☼	97	75 - 125
Nickel	78.1		103	179.5		mg/Kg	☼	99	75 - 125
Lead	621		103	824.3	4	mg/Kg	☼	198	75 - 125
Selenium	5.8	J	411	346.0		mg/Kg	☼	83	75 - 125
Zinc	436		103	526.9	4	mg/Kg	☼	88	75 - 125

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	136		10.5	156.1	4	mg/Kg	☼	189	75 - 125	6	20
Arsenic	51.5		419	412.1		mg/Kg	☼	86	75 - 125	1	20
Barium	151		419	492.4		mg/Kg	☼	81	75 - 125	3	20
Beryllium	1.3		10.5	10.37		mg/Kg	☼	87	75 - 125	0	20
Cadmium	24.5		10.5	35.61		mg/Kg	☼	106	75 - 125	5	20
Chromium	112		41.9	156.9		mg/Kg	☼	106	75 - 125	2	20
Copper	1230		52.4	1349	4	mg/Kg	☼	228	75 - 125	2	20
Manganese	227		105	314.2		mg/Kg	☼	83	75 - 125	4	20
Nickel	78.1		105	178.5		mg/Kg	☼	96	75 - 125	1	20
Lead	621		105	747.4	4	mg/Kg	☼	120	75 - 125	10	20
Selenium	5.8	J	419	346.8		mg/Kg	☼	81	75 - 125	0	20
Zinc	436		105	524.7	4	mg/Kg	☼	85	75 - 125	0	20

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	136		132.7		mg/Kg	☼	3	20
Arsenic	51.5		50.86		mg/Kg	☼	1	20
Barium	151		146.4		mg/Kg	☼	3	20
Beryllium	1.3		1.22		mg/Kg	☼	2	20
Cadmium	24.5		23.84		mg/Kg	☼	3	20
Chromium	112		108.5		mg/Kg	☼	3	20
Copper	1230		1199		mg/Kg	☼	3	20
Manganese	227		219.1		mg/Kg	☼	4	20
Nickel	78.1		75.96		mg/Kg	☼	3	20
Lead	621		600.9		mg/Kg	☼	3	20
Selenium	5.8	J	5.76	J	mg/Kg	☼	0.1	20
Zinc	436		420.6		mg/Kg	☼	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-317717/11-A
Matrix: Water
Analysis Batch: 317832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/20/15 05:22	08/20/15 11:05	1

Lab Sample ID: LCS 460-317717/12-A
Matrix: Water
Analysis Batch: 317832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.947		ug/L		95	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-321597/10-A
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/10/15 04:38	09/10/15 09:16	1

Lab Sample ID: LCSSRM 460-321597/11-A ^20
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321597

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.87		mg/Kg		96.7	73.7 - 126.3

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 321597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.54		0.172	0.707		mg/Kg	☼	99	80 - 120

Lab Sample ID: 200-29296-2 MSD
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 321597

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.54		0.172	0.712		mg/Kg	☼	102	80 - 120	1	20

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 321597

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.54		0.538		mg/Kg	☼	0.3	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-321598/10-A
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/10/15 05:11	09/10/15 10:22	1

Lab Sample ID: LCSSRM 460-321598/11-A ^20
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.75		mg/Kg		95.1	73.7 - 126.3

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-316730/9
Matrix: Water
Analysis Batch: 316730

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U	10.0	4.9	ug/L			08/14/15 09:46	1

Lab Sample ID: LCSSRM 460-316730/10
Matrix: Water
Analysis Batch: 316730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	73.8	72.33		ug/L		98.0	87.3 - 110.2

Lab Sample ID: MB 460-319280/1-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		08/27/15 11:00	08/28/15 18:17	1

Lab Sample ID: LCSI 460-319280/3-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	670.3		mg/Kg		95	80 - 120

Lab Sample ID: LCSSRM 460-319280/2-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	14.34		mg/Kg		97.2	88.6 - 110.0

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-319280/4-A
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	97.4	69.72		mg/Kg		71.6	48.8 - 150.9

Lab Sample ID: 200-29296-2 MSI
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	4.3	U F1	1510	318.0	F1	mg/Kg	☼	21	75 - 125

Lab Sample ID: 200-29296-2 MSS
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	4.3	U F1	85.6	5.09	F1	mg/Kg	☼	6	75 - 125

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 319726

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319280

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)	4.3	U F1	4.2	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-319281/1-A
Matrix: Solid
Analysis Batch: 319795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		08/27/15 11:00	08/29/15 17:59	1

Lab Sample ID: LCSI 460-319281/3-A
Matrix: Solid
Analysis Batch: 319795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319281

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	677.7		mg/Kg		96	80 - 120

Lab Sample ID: LCSSRM 460-319281/2-A
Matrix: Solid
Analysis Batch: 319795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319281

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	13.50		mg/Kg		91.5	88.6 - 110.0

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 200-29296-2 MSI — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319795 — **Prep Batch: 319281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	4.3	U F1	1510	358.7	F1	mg/Kg	☼	24	75 - 125

Lab Sample ID: 200-29296-2 MSS — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319795 — **Prep Batch: 319281**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	4.3	U F1	85.6	4.3	U F1	mg/Kg	☼	1	75 - 125

Lab Sample ID: 200-29296-2 DU — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319795 — **Prep Batch: 319281**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)	4.3	U F1	4.2	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-320622/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320740 — **Prep Batch: 320622**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/03/15 05:30	09/03/15 13:01	1

Lab Sample ID: LCSI 460-320622/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320740 — **Prep Batch: 320622**

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	694.3		mg/Kg		98	80 - 120

Lab Sample ID: LCSSRM 460-320622/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320740 — **Prep Batch: 320622**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	13.19		mg/Kg		89.4	88.6 - 110.0

Lab Sample ID: MB 460-320746/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320766 — **Prep Batch: 320746**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/03/15 19:00	09/03/15 23:36	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 460-320746/3-A
Matrix: Solid
Analysis Batch: 320766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320746

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	771.3		mg/Kg		109	80 - 120

Lab Sample ID: LCSSRM 460-320746/2-A
Matrix: Solid
Analysis Batch: 320766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320746

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	13.54		mg/Kg		91.7	88.6 - 110.0

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-319283/1-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10	U	0.10	0.016	mg/Kg		08/27/15 13:30	08/27/15 19:10	1

Lab Sample ID: HLCS 460-319283/3-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.00	1.87		mg/Kg		94	90 - 110

Lab Sample ID: LCSSRM 460-319283/4-A ^20
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	103	24.20		mg/Kg		23.5	3.5 - 121.4

Lab Sample ID: LLCS 460-319283/2-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.00	1.03		mg/Kg		103	90 - 110

Lab Sample ID: 200-29296-2 MS
Matrix: Solid
Analysis Batch: 319510

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.2	F1	4.28	10.12	F1	mg/Kg	☼	186	47 - 118

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 200-29296-2 MSD — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319510 — **Prep Batch: 319283**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	2.2	F1	4.28	8.73	F1	mg/Kg	☼	154	47 - 118	15	35

Lab Sample ID: MB 460-319285/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319285**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:43	1

Lab Sample ID: HLCS 460-319285/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319285**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.186		mg/L		93	90 - 110

Lab Sample ID: LLCS 460-319285/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319285**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.102		mg/L		102	90 - 110

Method: Moisture - Percent Moisture

Lab Sample ID: 200-29296-2 DU — **Client Sample ID: RXR5A/-9.6--9.9/14082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93164

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	46.8		47.6		%		2	20

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-206625/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210001 — **Prep Batch: 206625**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	68.39	U	142	143	214	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Bismuth-214	-1.471	U	18.0	18.0	31.0	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Actinium-228	15.24	U	19.2	19.3	39.9	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Bismuth-212	33.99	U	63.2	63.2	109	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Lead-212	-2.608	U	16.1	16.1	22.1	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Lead-214	5.843	U	13.1	13.1	26.5	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Radium-226	-1.471	U	18.0	18.0	31.0	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Potassium-40	-45.41	U	220	220	215	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Radium-228	15.24	U	19.2	19.3	39.9	pCi/L	08/19/15 17:11	09/09/15 06:58	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-206625/1-A
Matrix: Water
Analysis Batch: 210001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206625

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Protactinium-231	0.0000	U	142	142	374	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Thallium-208	3.571	U	6.63	6.64	13.7	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Thorium-234	72.90	U	72.9	73.4	178	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Uranium-238	72.90	U	72.9	73.4	178	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Protactinium-234m	424.8	U	731	732	1250	pCi/L	08/19/15 17:11	09/09/15 06:58	1
Uranium-235	6.282	U	9.06	9.09	66.2	pCi/L	08/19/15 17:11	09/09/15 06:58	1

Lab Sample ID: LCS 160-206625/2-A
Matrix: Water
Analysis Batch: 210001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206625

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	137000	137700		15900	474	pCi/L	101	90 - 111
Cesium-137	48600	49320		4910	160	pCi/L	101	90 - 111
Cobalt-60	48100	47330		4670	112	pCi/L	98	89 - 110

Lab Sample ID: 200-29296-1 DU
Matrix: Water
Analysis Batch: 210004

Client Sample ID: FB001_14082015
Prep Type: Total/NA
Prep Batch: 206625

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Lead-210	221		-18.23	U	139	222	pCi/L	0.82	1
Bismuth-214	108		75.76		21.6	21.7	pCi/L	0.61	1
Actinium-228	15.7	U	6.626	U	23.2	41.3	pCi/L	0.24	1
Bismuth-212	0.830	U	34.94	U	68.0	117	pCi/L	0.25	1
Lead-212	-3.80	U	1.988	U	10.2	19.0	pCi/L	0.19	1
Lead-214	64.2		54.47		15.6	20.8	pCi/L	0.26	1
Radium-226	108		75.76		21.6	21.7	pCi/L	0.61	1
Potassium-40	20.7	U	3.809	U	64.9	150	pCi/L	0.10	1
Radium-228	15.7	U	6.626	U	23.2	41.3	pCi/L	0.24	1
Protactinium-231	22.2	U	21.87	U	73.9	257	pCi/L	0	1
Thallium-208	-1.80	U	-3.046	U	9.32	13.5	pCi/L	0.05	1
Thorium-234	16.2	U	-15.39	U	124	217	pCi/L	0.15	1
Uranium-238	16.2	U	-15.39	U	124	217	pCi/L	0.15	1
Protactinium-234m	326	U	-150.7	U	841	1530	pCi/L	0.30	1
Uranium-235	12.2	U	11.98	U	23.7	54.4	pCi/L	0	1

Lab Sample ID: MB 160-208180/1-A
Matrix: Solid
Analysis Batch: 211556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	0.8922	U	1.29	1.29	1.99	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Bismuth-214	0.02098	U	0.0984	0.0984	0.195	pCi/g	08/27/15 10:12	09/17/15 09:04	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-208180/1-A
Matrix: Solid
Analysis Batch: 211556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.02178	U	0.0380	0.0380	0.393	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Bismuth-212	-0.09059	U	0.390	0.390	0.766	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Lead-212	-0.006023	U	0.0863	0.0863	0.113	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Lead-214	-0.04692	U	4.52	4.52	0.154	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Radium-226	0.02098	U	0.0984	0.0984	0.195	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Potassium-40	-0.3546	U	204	204	1.52	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Radium-228	0.02178	U	0.0380	0.0380	0.393	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Protactinium-231	-0.03020	U	0.151	0.151	1.76	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Thallium-208	-0.001681	U	0.00492	0.00492	0.0866	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Thorium-234	0.2544	U	0.472	0.473	1.37	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Uranium-238	0.2544	U	0.472	0.473	1.37	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Protactinium-234m	0.0000	U	1.52	1.52	13.3	pCi/g	08/27/15 10:12	09/17/15 09:04	1
Uranium-235	0.1055	U	0.176	0.177	0.299	pCi/g	08/27/15 10:12	09/17/15 09:04	1

Lab Sample ID: LCS 160-208180/2-A
Matrix: Solid
Analysis Batch: 211553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208180

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	97.2	101.9		10.7	1.17	pCi/g	105	87 - 116
Cesium-137	30.2	30.09		3.21	0.283	pCi/g	100	87 - 120
Cobalt-60	18.9	18.58		1.92	0.193	pCi/g	99	87 - 115

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 211553

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 208180

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium-228	0.830		1.309		0.291	0.142	pCi/g	0.88	1
Bismuth-212	0.169	U	1.123	U	0.953	1.46	pCi/g	0.52	1
Bismuth-214	1.18		0.9672		0.271	0.238	pCi/g	0.39	1
Lead-210	1.80	U	4.402		2.40	3.16	pCi/g	0.62	1
Lead-212	1.49		1.183		0.268	0.212	pCi/g	0.57	1
Lead-214	0.913		1.137		0.302	0.254	pCi/g	0.43	1
Potassium-40	9.87		12.40		2.34	1.07	pCi/g	0.55	1
Protactinium-231	0.655	U	1.040	U	0.907	3.17	pCi/g	0.19	1
Radium-226	1.18		0.9672		0.271	0.238	pCi/g	0.39	1
Radium-228	0.830		1.309		0.291	0.142	pCi/g	0.88	1
Thallium-208	0.416		0.5164		0.141	0.109	pCi/g	0.40	1
Thorium-234	1.92	U	2.098	U	2.00	3.34	pCi/g	0.07	1
Uranium-235	0.139	U	-0.02439	U	0.130	0.569	pCi/g	0.45	1
Uranium-238	1.92	U	2.098	U	2.00	3.34	pCi/g	0.07	1
Protactinium-234m	4.05	U	3.623	U	8.93	15.5	pCi/g	0.02	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-208181/1-A
Matrix: Solid
Analysis Batch: 211550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208181

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	0.1272	U	0.654	0.654	1.36	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-214	0.05644	U	0.0677	0.0679	0.109	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Actinium-228	0.01913	U	0.0748	0.0749	0.178	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-212	0.1306	U	0.483	0.483	0.884	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-212	0.07494		0.0368	0.0381	0.0534	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-214	0.02084	U	0.0380	0.0381	0.0666	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-226	0.05644	U	0.0677	0.0679	0.109	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Potassium-40	-0.01528	U	0.516	0.516	1.01	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-228	0.01913	U	0.0748	0.0749	0.178	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-231	0.001592	U	0.476	0.476	0.948	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thallium-208	0.004946	U	0.0346	0.0346	0.0635	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thorium-234	-0.03603	U	0.484	0.484	0.973	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-238	-0.03603	U	0.484	0.484	0.973	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-234m	1.155	U	3.83	3.83	7.30	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-235	0.007665	U	0.0908	0.0908	0.195	pCi/g	08/27/15 10:28	09/17/15 07:40	1

Lab Sample ID: LCS 160-208181/2-A
Matrix: Solid
Analysis Batch: 211549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208181

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	97.2	100.5		10.6	1.38	pCi/g	103	87 - 116
Cesium-137	30.2	31.07		3.34	0.294	pCi/g	103	87 - 120
Cobalt-60	18.9	18.71		1.96	0.172	pCi/g	99	87 - 115

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-206670/1-A
Matrix: Water
Analysis Batch: 207599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206670

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.1121	U	0.105	0.105	0.150	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-230	0.05259	U	0.0658	0.0660	0.0991	pCi/L	08/20/15 08:50	08/24/15 14:54	1
Thorium-232	-0.007974	U	0.0113	0.0113	0.0893	pCi/L	08/20/15 08:50	08/24/15 14:54	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*88.5*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:54*	*1*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-206670/2-A
Matrix: Water
Analysis Batch: 207600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206670

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			8.03	7.809		0.958		0.117	pCi/L	97	81 - 125		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*93.7*		*30 - 110*

Lab Sample ID: MB 160-211086/1-A
Matrix: Solid
Analysis Batch: 211718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211086

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	-0.003784	U	0.0380	0.0380	0.0957	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-230	0.07208		0.0569	0.0572	0.0610	pCi/g	09/15/15 09:41	09/17/15 23:24	1
Thorium-232	-0.0002095	U	0.0160	0.0160	0.0565	pCi/g	09/15/15 09:41	09/17/15 23:24	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*100*		*30 - 110*	*09/15/15 09:41*	*09/17/15 23:24*	*1*

Lab Sample ID: LCS 160-211086/2-A
Matrix: Solid
Analysis Batch: 211719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211086

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	26.39		2.68		0.122	pCi/g	108	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*92.1*		*30 - 110*

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 211723

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 211086

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-228	0.999			0.9898		0.231		0.106	pCi/g			0.02	1
Thorium-230	1.66			1.820		0.326		0.0865	pCi/g			0.25	1
Thorium-232	1.13			1.117		0.244		0.0639	pCi/g			0.04	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*83.7*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-206674/1-A
Matrix: Water
Analysis Batch: 207607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206674

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.05606	U	0.0706	0.0708	0.107	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-235/236	0.0000	U	0.0107	0.0107	0.0644	pCi/L	08/20/15 08:50	08/24/15 14:57	1
Uranium-238	0.008607	U	0.0365	0.0365	0.0964	pCi/L	08/20/15 08:50	08/24/15 14:57	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*83.1*		*30 - 110*	*08/20/15 08:50*	*08/24/15 14:57*	*1*

Lab Sample ID: LCS 160-206674/2-A
Matrix: Water
Analysis Batch: 207609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206674

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	12.7	12.52		1.44	0.119	pCi/L	98	84 - 120
Uranium-238	13.0	12.48		1.43	0.118	pCi/L	96	83 - 121

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*78.5*		*30 - 110*

Lab Sample ID: MB 160-208695/1-A
Matrix: Solid
Analysis Batch: 210725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208695

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.007409	U	0.0245	0.0245	0.0616	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-235/236	0.0000	U	0.00553	0.00553	0.0443	pCi/g	08/31/15 13:34	09/13/15 22:54	1
Uranium-238	0.03327	U	0.0412	0.0413	0.0539	pCi/g	08/31/15 13:34	09/13/15 22:54	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.9*		*30 - 110*	*08/31/15 13:34*	*09/13/15 22:54*	*1*

Lab Sample ID: LCS 160-208695/2-A
Matrix: Solid
Analysis Batch: 210726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208695

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	6.37	6.684		0.813	0.0387	pCi/g	105	84 - 120
Uranium-238	6.51	7.776		0.910	0.0586	pCi/g	119	82 - 122

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*76.2*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 200-29296-2 DU
Matrix: Solid
Analysis Batch: 210786

Client Sample ID: RXR5A/-9.6--9.9/14082015
Prep Type: Total/NA
Prep Batch: 208695

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Uranium-233/234	1.41			1.331		0.273		0.0876	pCi/g			0.15	1
Uranium-235/236	0.169			0.1486		0.0957		0.0810	pCi/g			0.10	1
Uranium-238	1.28			1.391		0.280		0.0957	pCi/g			0.21	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Uranium-232	*82.1*		*30 - 110*

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Prep Batch: 92804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	5035	

Prep Batch: 92821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	5035	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	5035	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	5035	
200-29296-3 - RE	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	5035	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	5035	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	5035	
200-29296-8 - RE	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	5035	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	5035	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	5035	
200-29296-11 - RE	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	5035	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	5035	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	5035	
200-29296-13 - RE	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	5035	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	5035	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	5035	
200-29296-17	DUP003	Total/NA	Solid	5035	
200-29296-19 - RE	DUP005	Total/NA	Solid	5035	
200-29296-19	DUP005	Total/NA	Solid	5035	

Analysis Batch: 93214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8260C	92821
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8260C	92821
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8260C	92821
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8260C	92821
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8260C	92821
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8260C	92821
200-29296-17	DUP003	Total/NA	Solid	8260C	92821
200-29296-19	DUP005	Total/NA	Solid	8260C	92821
LCS 200-93214/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93214/7	Method Blank	Total/NA	Solid	8260C	

Analysis Batch: 93257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8260C	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8260C	92804
200-29296-20	TB1	Total/NA	Water	8260C	
200-29296-21	TB2	Total/NA	Water	8260C	
LCS 200-93257/4	Lab Control Sample	Total/NA	Water	8260C	
LCS 200-93259/3-A	Lab Control Sample	Total/NA	Solid	8260C	93259
MB 200-93257/8	Method Blank	Total/NA	Water	8260C	
MB 200-93259/1-A	Method Blank	Total/NA	Solid	8260C	93259

Prep Batch: 93259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-93259/3-A	Lab Control Sample	Total/NA	Solid	5035	
MB 200-93259/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 93273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-3 - RE	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8260C	92821
LCS 200-93273/3	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93273/5	Method Blank	Total/NA	Solid	8260C	

Analysis Batch: 93681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-8 - RE	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-11 - RE	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8260C	92821
200-29296-13 - RE	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8260C	92821
200-29296-19 - RE	DUP005	Total/NA	Solid	8260C	92821
LCS 200-93681/4	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93681/6	Method Blank	Total/NA	Solid	8260C	

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Prep Batch: 92841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	3510C	
LCS 200-92841/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92841/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 93507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8270D	92841
LCS 200-92841/2-A	Lab Control Sample	Total/NA	Water	8270D	92841
MB 200-92841/1-A	Method Blank	Total/NA	Water	8270D	92841

Prep Batch: 318882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3546	
LCS 460-318882/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-318882/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-319090/2-A	Lab Control Sample	Total/NA	Solid	8270D	319090
MB 460-319090/1-A	Method Blank	Total/NA	Solid	8270D	319090

Prep Batch: 319090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 319090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3546	
200-29296-17	DUP003	Total/NA	Solid	3546	
200-29296-19	DUP005	Total/NA	Solid	3546	
LCS 460-319090/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319090/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8270D	318882
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8270D	318882
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8270D	318882
LCS 460-318882/3-A	Lab Control Sample	Total/NA	Solid	8270D	318882
MB 460-318882/1-A	Method Blank	Total/NA	Solid	8270D	318882

Analysis Batch: 319988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8270D	319090
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8270D	319090
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8270D	319090
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8270D	319090
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8270D	319090
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8270D	319090
200-29296-17	DUP003	Total/NA	Solid	8270D	319090
200-29296-19	DUP005	Total/NA	Solid	8270D	319090

Analysis Batch: 320254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8270D	318882

Analysis Batch: 320732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8270D	318882

Analysis Batch: 320840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8270D	318882

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Prep Batch: 92796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	3510C	
LCS 200-92796/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92796/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 92797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 92797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-92797/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92797/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 93005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8082A	92796
LCS 200-92796/2-A	Lab Control Sample	Total/NA	Water	8082A	92796
MB 200-92796/1-A	Method Blank	Total/NA	Water	8082A	92796

Prep Batch: 93141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3541	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3541	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3541	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3541	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3541	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3541	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3541	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3541	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3541	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3541	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3541	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3541	
200-29296-17	DUP003	Total/NA	Solid	3541	
200-29296-19	DUP005	Total/NA	Solid	3541	
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	3541	
MB 200-93141/1-B	Method Blank	Total/NA	Solid	3541	

Cleanup Batch: 93170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3665A	93141
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3665A	93141
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3665A	93141
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3665A	93141
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3665A	93141
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3665A	93141
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3665A	93141
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3665A	93141
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3665A	93141
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3665A	93141
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3665A	93141
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3665A	93141
200-29296-17	DUP003	Total/NA	Solid	3665A	93141
200-29296-19	DUP005	Total/NA	Solid	3665A	93141
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	3665A	93141
MB 200-93141/1-B	Method Blank	Total/NA	Solid	3665A	93141

Analysis Batch: 93421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8081B	92797
LCS 200-92797/2-A	Lab Control Sample	Total/NA	Water	8081B	92797

GC Semi VOA (Continued)

Analysis Batch: 93421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-92797/1-A	Method Blank	Total/NA	Water	8081B	92797

Analysis Batch: 94291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8082A	93170
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8082A	93170
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8082A	93170
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8082A	93170
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8082A	93170
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8082A	93170
MB 200-93141/1-B	Method Blank	Total/NA	Solid	8082A	93170

Analysis Batch: 94400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8082A	93170
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8082A	93170
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8082A	93170
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8082A	93170
200-29296-17	DUP003	Total/NA	Solid	8082A	93170
200-29296-19	DUP005	Total/NA	Solid	8082A	93170
LCS 200-93141/2-B	Lab Control Sample	Total/NA	Solid	8082A	93170
MB 200-93141/1-B	Method Blank	Total/NA	Solid	8082A	93170

Analysis Batch: 94483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8082A	93170

Analysis Batch: 94642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8082A	93170

Prep Batch: 317297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8151A	
LCS 460-317297/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-317297/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 460-317297/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 317534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	8151A	317297
LCS 460-317297/2-A	Lab Control Sample	Total/NA	Water	8151A	317297
LCSD 460-317297/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	317297
MB 460-317297/1-A	Method Blank	Total/NA	Water	8151A	317297

Prep Batch: 318962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 318962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8151A	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8151A	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8151A	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8151A	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8151A	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8151A	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8151A	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8151A	
200-29296-17	DUP003	Total/NA	Solid	8151A	
200-29296-19	DUP005	Total/NA	Solid	8151A	
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 319136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3546	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3546	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3546	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3546	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3546	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3546	
200-29296-17	DUP003	Total/NA	Solid	3546	
200-29296-19	DUP005	Total/NA	Solid	3546	
LCS 460-319136/2-A - RA	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-319136/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319136/1-A	Method Blank	Total/NA	Solid	3546	
MB 460-319136/1-A - RA	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	318962
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	318962
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8151A	318962
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	318962
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	318962

Analysis Batch: 319777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8081B	319136
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8081B	319136
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	8081B	319136
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8081B	319136
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8081B	319136
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8081B	319136
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8081B	319136

GC Semi VOA (Continued)

Analysis Batch: 319777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8081B	319136
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8081B	319136
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8081B	319136
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8081B	319136
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8081B	319136
200-29296-17	DUP003	Total/NA	Solid	8081B	319136
200-29296-19	DUP005	Total/NA	Solid	8081B	319136
LCS 460-319136/2-A	Lab Control Sample	Total/NA	Solid	8081B	319136
LCS 460-319136/2-A - RA	Lab Control Sample	Total/NA	Solid	8081B	319136
MB 460-319136/1-A	Method Blank	Total/NA	Solid	8081B	319136
MB 460-319136/1-A - RA	Method Blank	Total/NA	Solid	8081B	319136

Analysis Batch: 320450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	8151A	318962
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	8151A	318962
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	8151A	318962
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	8151A	318962
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	8151A	318962
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	8151A	318962
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	8151A	318962
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	8151A	318962

Analysis Batch: 320451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	8151A	318962
200-29296-17	DUP003	Total/NA	Solid	8151A	318962
200-29296-19	DUP005	Total/NA	Solid	8151A	318962

Metals

Prep Batch: 317717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	7470A	
LCS 460-317717/12-A	Lab Control Sample	Total/NA	Water	7470A	
MB 460-317717/11-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 317832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	7470A	317717
LCS 460-317717/12-A	Lab Control Sample	Total/NA	Water	7470A	317717
MB 460-317717/11-A	Method Blank	Total/NA	Water	7470A	317717

Prep Batch: 318031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	3010A	
LCS 460-318031/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 460-318031/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Analysis Batch: 318797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	6010C	318031
LCS 460-318031/2-A	Lab Control Sample	Total/NA	Water	6010C	318031
MB 460-318031/1-A	Method Blank	Total/NA	Water	6010C	318031

Prep Batch: 319872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3050B	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3050B	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3050B	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3050B	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3050B	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3050B	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3050B	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3050B	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3050B	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3050B	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3050B	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3050B	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3050B	
200-29296-17	DUP003	Total/NA	Solid	3050B	
200-29296-19	DUP005	Total/NA	Solid	3050B	
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 320446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	6010C	319872
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	6010C	319872
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	6010C	319872
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	6010C	319872
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	6010C	319872
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	6010C	319872
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	6010C	319872
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	6010C	319872
200-29296-17	DUP003	Total/NA	Solid	6010C	319872
200-29296-19	DUP005	Total/NA	Solid	6010C	319872
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	6010C	319872
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	6010C	319872

Prep Batch: 321597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	
LCSSRM 460-321597/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 321597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-321597/10-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 321598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	7471B	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	7471B	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	7471B	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	7471B	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	7471B	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	7471B	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	7471B	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	7471B	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	7471B	
200-29296-17	DUP003	Total/NA	Solid	7471B	
200-29296-19	DUP005	Total/NA	Solid	7471B	
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 321698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	321597
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	321597
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	321597
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7471B	321597
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	7471B	321598
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	7471B	321598
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	7471B	321598
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	7471B	321598
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	7471B	321598
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	7471B	321598
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	7471B	321598
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	7471B	321598
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	7471B	321598
200-29296-17	DUP003	Total/NA	Solid	7471B	321598
200-29296-19	DUP005	Total/NA	Solid	7471B	321598
LCSSRM 460-321597/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	321597
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	321598
MB 460-321597/10-A	Method Blank	Total/NA	Solid	7471B	321597
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	321598

General Chemistry

Analysis Batch: 93164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Moisture	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Moisture	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	Moisture	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	Moisture	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	Moisture	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 93164 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	Moisture	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	Moisture	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	Moisture	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	Moisture	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	Moisture	
200-29296-17	DUP003	Total/NA	Solid	Moisture	
200-29296-19	DUP005	Total/NA	Solid	Moisture	

Analysis Batch: 316730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	7196A	
LCSSRM 460-316730/10	Lab Control Sample	Total/NA	Water	7196A	
MB 460-316730/9	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 317154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	7196A	

Prep Batch: 319280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 MSI	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 MSS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3060A	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3060A	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
LCSI 460-319280/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-319280/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-319280/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-319280/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 319281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 MSI	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-2 MSS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	3060A	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	3060A	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	3060A	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	3060A	
LCSI 460-319281/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-319281/2-A	Lab Control Sample	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 319281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-319281/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 319283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	9012B	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	9012B	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	9012B	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	9012B	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	9012B	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	9012B	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	9012B	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	9012B	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	9012B	
200-29296-17	DUP003	Total/NA	Solid	9012B	
200-29296-19	DUP005	Total/NA	Solid	9012B	
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	

Prep Batch: 319285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	9012B	
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 319478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	9012B	319285
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	9012B	319283
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	9012B	319283
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	9012B	319283
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	9012B	319283
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	9012B	319283
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	9012B	319283
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	9012B	319283
200-29296-17	DUP003	Total/NA	Solid	9012B	319283
200-29296-19	DUP005	Total/NA	Solid	9012B	319283
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	319283
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	319285
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	319285
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	319283
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	319285

General Chemistry (Continued)

Analysis Batch: 319510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	319283
200-29296-2 MS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	319283
200-29296-2 MSD	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	9012B	319283
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	9012B	319283
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	9012B	319283

Analysis Batch: 319726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-2 MSI	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-2 MSS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319280
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	7196A	319280
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319280
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	7196A	319280
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	7196A	319280
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319280
LCSI 460-319280/3-A	Lab Control Sample	Total/NA	Solid	7196A	319280
LCSSRM 460-319280/2-A	Lab Control Sample	Total/NA	Solid	7196A	319280
LCSSRM 460-319280/4-A	Lab Control Sample	Total/NA	Solid	7196A	319280
MB 460-319280/1-A	Method Blank	Total/NA	Solid	7196A	319280

Analysis Batch: 319795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-2 MSI	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-2 MSS	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319281
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	7196A	319281
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319281
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	7196A	319281
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	7196A	319281
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	7196A	319281
LCSI 460-319281/3-A	Lab Control Sample	Total/NA	Solid	7196A	319281
LCSSRM 460-319281/2-A	Lab Control Sample	Total/NA	Solid	7196A	319281
MB 460-319281/1-A	Method Blank	Total/NA	Solid	7196A	319281

Analysis Batch: 319864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	7196A	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	7196A	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	7196A	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	7196A	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	7196A	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	7196A	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	7196A	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	7196A	

General Chemistry (Continued)

Analysis Batch: 319864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	7196A	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	7196A	
200-29296-17	DUP003	Total/NA	Solid	7196A	
200-29296-19	DUP005	Total/NA	Solid	7196A	

Prep Batch: 320622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3060A	
200-29296-17	DUP003	Total/NA	Solid	3060A	
200-29296-19	DUP005	Total/NA	Solid	3060A	
LCSI 460-320622/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-320622/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-320622/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 320740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	7196A	320622
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	7196A	320622
200-29296-17	DUP003	Total/NA	Solid	7196A	320622
200-29296-19	DUP005	Total/NA	Solid	7196A	320622
LCSI 460-320622/3-A	Lab Control Sample	Total/NA	Solid	7196A	320622
LCSSRM 460-320622/2-A	Lab Control Sample	Total/NA	Solid	7196A	320622
MB 460-320622/1-A	Method Blank	Total/NA	Solid	7196A	320622

Prep Batch: 320746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	3060A	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	3060A	
200-29296-17	DUP003	Total/NA	Solid	3060A	
200-29296-19	DUP005	Total/NA	Solid	3060A	
LCSI 460-320746/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-320746/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-320746/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 320766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	7196A	320746
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	7196A	320746
200-29296-17	DUP003	Total/NA	Solid	7196A	320746
200-29296-19	DUP005	Total/NA	Solid	7196A	320746
LCSI 460-320746/3-A	Lab Control Sample	Total/NA	Solid	7196A	320746
LCSSRM 460-320746/2-A	Lab Control Sample	Total/NA	Solid	7196A	320746
MB 460-320746/1-A	Method Blank	Total/NA	Solid	7196A	320746

Rad

Prep Batch: 206625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	Fill_Geo-21	

Rad (Continued)

Prep Batch: 206625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1 DU	FB001_14082015	Total/NA	Water	Fill_Geo-21	
LCS 160-206625/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-206625/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Prep Batch: 206670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	ExtChrom	
LCS 160-206670/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-206670/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 206674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-1	FB001_14082015	Total/NA	Water	ExtChrom	
LCS 160-206674/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-206674/1-A	Method Blank	Total/NA	Water	ExtChrom	

Leach Batch: 207746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	Dry and Grind	
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	Dry and Grind	
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	Dry and Grind	
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	Dry and Grind	
200-29296-17	DUP003	Total/NA	Solid	Dry and Grind	
200-29296-19	DUP005	Total/NA	Solid	Dry and Grind	

Prep Batch: 208180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	Fill_Geo-21	207746
LCS 160-208180/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-208180/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 208181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	Fill_Geo-21	207746
200-29296-17	DUP003	Total/NA	Solid	Fill_Geo-21	207746

Rad (Continued)

Prep Batch: 208181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-19	DUP005	Total/NA	Solid	Fill_Geo-21	207746
LCS 160-208181/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-208181/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 208695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-17	DUP003	Total/NA	Solid	ExtChrom	207746
200-29296-19	DUP005	Total/NA	Solid	ExtChrom	207746
LCS 160-208695/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-208695/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 211086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29296-2	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-2 DU	RXR5A/-9.6--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-3	RXR5B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-4	RXR5C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-8	RXR7A/-8.7--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-9	RXR7B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-10	RXR7C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-11	RXR8A/-9.3--9.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-12	RXR8B/-9.9--10.4/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-13	RXR8C/-10.4--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-14	RXR4A/-6.2--10.9/14082015	Total/NA	Solid	ExtChrom	207746
200-29296-17	DUP003	Total/NA	Solid	ExtChrom	207746
200-29296-19	DUP005	Total/NA	Solid	ExtChrom	207746
LCS 160-211086/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-211086/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: FB001_14082015

Date Collected: 08/14/15 06:45
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93257	08/27/15 19:34	JSW	TAL BUR
Total/NA	Prep	3510C			92841	08/18/15 12:14	NML	TAL BUR
Total/NA	Analysis	8270D		1	93507	09/02/15 10:19	DJB	TAL BUR
Total/NA	Prep	3510C			92797	08/17/15 09:13	NML	TAL BUR
Total/NA	Analysis	8081B		1	93421	08/31/15 21:52	KAB	TAL BUR
Total/NA	Prep	3510C			92796	08/17/15 09:09	NML	TAL BUR
Total/NA	Analysis	8082A		1	93005	08/21/15 09:25	ELD	TAL BUR
Total/NA	Prep	8151A			317297	08/18/15 11:10	MBE	TAL EDI
Total/NA	Analysis	8151A		1	317534	08/19/15 13:49	SAK	TAL EDI
Total/NA	Prep	3010A			318031	08/21/15 09:50	QZY	TAL EDI
Total/NA	Analysis	6010C		1	318797	08/25/15 18:58	YZH	TAL EDI
Total/NA	Prep	7470A			317717	08/20/15 05:22	TJS	TAL EDI
Total/NA	Analysis	7470A		1	317832	08/20/15 11:35	TJS	TAL EDI
Total/NA	Analysis	7196A		1	317154	08/17/15 17:31	TJW	TAL EDI
Total/NA	Analysis	7196A		1	316730	08/14/15 19:03	PXP	TAL EDI
Total/NA	Prep	9012B			319285	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:46	MAL	TAL EDI
Total/NA	Prep	Fill_Geo-21			206625	08/19/15 17:11	R1S	TAL SL
Total/NA	Analysis	901.1		1	210001	09/09/15 09:22	ALS	TAL SL
Total/NA	Prep	ExtChrom			206670	08/20/15 08:50	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	207605	08/24/15 14:54	CDH	TAL SL
Total/NA	Prep	ExtChrom			206674	08/20/15 08:50	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	207613	08/24/15 14:57	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR5A/-9.6--9.9/14082015

Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211550	09/17/15 10:20	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210777	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211722	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: RXR5A/-9.6--9.9/14082015

Date Collected: 08/14/15 09:15
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-2

Matrix: Solid
Percent Solids: 46.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 18:10	NEA	TAL BUR
Total/NA	Prep	3546			318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D		5	319220	08/27/15 22:40	AAS	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 16:02	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94400	09/23/15 15:15	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	319166	08/27/15 09:48	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 22:28	YZH	TAL EDI
Total/NA	Prep	7471B			321597	09/10/15 04:38	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 09:21	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 18:17	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 17:59	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319510	08/28/15 12:33	MAL	TAL EDI

Client Sample ID: RXR5B/-9.9--10.4/14082015

Date Collected: 08/14/15 09:25
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211553	09/17/15 10:25	RTM	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210796	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211724	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR5B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-3

Date Collected: 08/14/15 09:25
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 45.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 23:49	NEA	TAL BUR
Total/NA	Prep	5035	RE		92821	08/17/15 14:55	ERT	TAL BUR
Total/NA	Analysis	8260C	RE	1	93273	08/27/15 17:34	NEA	TAL BUR
Total/NA	Prep	3546			318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D		2	320840	09/04/15 17:00	WXC	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 16:15	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94291	09/22/15 16:46	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 20:00	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 22:46	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:00	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 18:17	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 17:59	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:20	MAL	TAL EDI

Client Sample ID: RXR5C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-4

Date Collected: 08/14/15 09:35
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211556	09/17/15 11:04	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210700	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211725	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: RXR5C/-10.4--10.9/14082015

Date Collected: 08/14/15 09:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-4

Matrix: Solid
Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 18:41	NEA	TAL BUR
Total/NA	Prep	3546			318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 06:05	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 16:28	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94291	09/22/15 17:03	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 20:15	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 22:49	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:02	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:20	MAL	TAL EDI

Client Sample ID: RXR7A/-8.7--9.9/14082015

Date Collected: 08/14/15 11:35
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211556	09/17/15 13:33	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210711	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211727	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR7A/-8.7--9.9/14082015

Lab Sample ID: 200-29296-8

Date Collected: 08/14/15 11:35
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 58.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 19:12	NEA	TAL BUR
Total/NA	Prep	5035	RE		92821	08/17/15 14:55	ERT	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 17:03	NEA	TAL BUR
Total/NA	Prep	3546			318882	08/26/15 08:36	HMP	TAL EDI
Total/NA	Analysis	8270D		2	320732	09/04/15 05:52	FAM	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 16:41	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94642	09/28/15 17:48	KAB	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 20:29	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 22:53	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:03	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319510	08/28/15 12:01	MAL	TAL EDI

Client Sample ID: RXR7B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-9

Date Collected: 08/14/15 11:45
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211557	09/17/15 13:34	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210720	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211728	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Client Sample ID: RXR7B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-9

Date Collected: 08/14/15 11:45
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 51.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92804	08/17/15 12:14	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93257	08/27/15 15:53	JSW	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	09/01/15 01:05	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 16:53	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		10	94483	09/24/15 15:37	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 20:44	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 22:57	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:06	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		2	319510	08/28/15 12:02	MAL	TAL EDI

Client Sample ID: RXR7C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-10

Date Collected: 08/14/15 11:55
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211558	09/17/15 13:35	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210731	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211729	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR7C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-10

Date Collected: 08/14/15 11:55
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 62.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 19:43	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	08/31/15 23:56	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 17:06	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94291	09/22/15 17:52	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 20:59	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:12	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:08	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		2	319478	08/27/15 19:52	MAL	TAL EDI

Client Sample ID: RXR8A/-9.3--9.9/14082015

Lab Sample ID: 200-29296-11

Date Collected: 08/14/15 12:15
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211555	09/17/15 13:33	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210741	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211730	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR8A/-9.3--9.9/14082015

Lab Sample ID: 200-29296-11

Date Collected: 08/14/15 12:15
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 23:18	NEA	TAL BUR
Total/NA	Prep	5035	RE		92821	08/17/15 14:55	ERT	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 17:35	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	09/01/15 00:19	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 17:19	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94400	09/23/15 16:21	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 21:14	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:15	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:15	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:27	MAL	TAL EDI

Client Sample ID: RXR8B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-12

Date Collected: 08/14/15 12:25
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208180	08/27/15 10:12	MRB	TAL SL
Total/NA	Analysis	901.1		1	211558	09/17/15 14:33	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210742	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211731	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR8B/-9.9--10.4/14082015

Lab Sample ID: 200-29296-12

Date Collected: 08/14/15 12:25
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 20:13	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	09/01/15 00:42	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 17:32	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94291	09/22/15 18:26	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 21:29	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:19	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:17	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			319280	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319726	08/28/15 19:19	MAL	TAL EDI
Total/NA	Prep	3060A			319281	08/27/15 11:00	IAA	TAL EDI
Total/NA	Analysis	7196A		1	319795	08/29/15 18:54	MAL	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:28	MAL	TAL EDI

Client Sample ID: RXR8C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-13

Date Collected: 08/14/15 12:35
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211550	09/17/15 07:08	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210743	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211732	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR8C/-10.4--10.9/14082015

Lab Sample ID: 200-29296-13

Date Collected: 08/14/15 12:35
Matrix: Solid
Date Received: 08/15/15 09:45
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 20:44	NEA	TAL BUR
Total/NA	Prep	5035	RE		92821	08/17/15 14:55	ERT	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 18:06	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	09/01/15 01:28	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 17:45	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		4	94291	09/22/15 18:42	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320450	09/02/15 21:44	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:23	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:20	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			320622	09/03/15 05:30	IAA	TAL EDI
Total/NA	Analysis	7196A		1	320740	09/03/15 17:52	MAL	TAL EDI
Total/NA	Prep	3060A			320746	09/03/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	320766	09/03/15 23:43	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:29	MAL	TAL EDI

Client Sample ID: RXR4A/-6.2--10.9/14082015

Lab Sample ID: 200-29296-14

Date Collected: 08/14/15 14:40
Matrix: Solid
Date Received: 08/15/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211549	09/17/15 07:07	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210744	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211734	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR4A/-6.2--10.9/14082015

Date Collected: 08/14/15 14:40
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-14

Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 21:15	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	08/31/15 23:33	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 17:58	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94291	09/22/15 18:59	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 22:43	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:26	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:22	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			320622	09/03/15 05:30	IAA	TAL EDI
Total/NA	Analysis	7196A		1	320740	09/03/15 17:52	MAL	TAL EDI
Total/NA	Prep	3060A			320746	09/03/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	320766	09/03/15 23:43	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:30	MAL	TAL EDI

Client Sample ID: DUP003

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211548	09/17/15 07:05	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210745	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211735	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: DUP003

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-17

Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 21:46	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	08/31/15 22:47	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 18:10	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94400	09/23/15 16:37	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 22:58	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:30	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:24	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			320622	09/03/15 05:30	IAA	TAL EDI
Total/NA	Analysis	7196A		1	320740	09/03/15 17:52	MAL	TAL EDI
Total/NA	Prep	3060A			320746	09/03/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	320766	09/03/15 23:43	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:33	MAL	TAL EDI

Client Sample ID: DUP005

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211548	09/17/15 07:40	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208695	08/31/15 13:34	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210746	09/13/15 22:54	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			211086	09/15/15 09:41	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211736	09/17/15 23:24	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: DUP005

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-19

Matrix: Solid
Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			92821	08/17/15 15:42	ERT	TAL BUR
Total/NA	Analysis	8260C		1	93214	08/26/15 22:17	NEA	TAL BUR
Total/NA	Prep	5035	RE		92821	08/17/15 14:55	ERT	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 18:38	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	09/01/15 01:51	CAZ	TAL EDI
Total/NA	Prep	3546			319136	08/27/15 06:30	ARA	TAL EDI
Total/NA	Analysis	8081B		1	319777	08/30/15 18:23	JHP	TAL EDI
Total/NA	Prep	3541			93141	08/25/15 10:45	EAN	TAL BUR
Total/NA	Cleanup	3665A			93170	08/25/15 22:00	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94400	09/23/15 16:54	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 23:13	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 23:34	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:26	TJS	TAL EDI
Total/NA	Analysis	7196A		1	319864	08/31/15 07:17	TJW	TAL EDI
Total/NA	Prep	3060A			320622	09/03/15 05:30	IAA	TAL EDI
Total/NA	Analysis	7196A		1	320740	09/03/15 17:52	MAL	TAL EDI
Total/NA	Prep	3060A			320746	09/03/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	320766	09/03/15 23:43	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		2	319478	08/27/15 19:53	MAL	TAL EDI

Client Sample ID: TB1

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93257	08/27/15 20:06	JSW	TAL BUR

Client Sample ID: TB2

Date Collected: 08/14/15 00:00
Date Received: 08/15/15 09:45

Lab Sample ID: 200-29296-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93257	08/27/15 20:37	JSW	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8081B	3510C	Water	Mirex
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
7196A		Water	Cr (III)

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15 *
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA150017	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	09-30-15 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUR
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUR
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUR
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
8151A	Herbicides (GC)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
9012B	Cyanide, Total andor Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL BUR
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29296-2
SDG: 200-29296

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-29296-1	FB001_14082015	Water	08/14/15 06:45	08/15/15 09:45
200-29296-2	RXR5A/-9.6--9.9/14082015	Solid	08/14/15 09:15	08/15/15 09:45
200-29296-3	RXR5B/-9.9--10.4/14082015	Solid	08/14/15 09:25	08/15/15 09:45
200-29296-4	RXR5C/-10.4--10.9/14082015	Solid	08/14/15 09:35	08/15/15 09:45
200-29296-8	RXR7A/-8.7--9.9/14082015	Solid	08/14/15 11:35	08/15/15 09:45
200-29296-9	RXR7B/-9.9--10.4/14082015	Solid	08/14/15 11:45	08/15/15 09:45
200-29296-10	RXR7C/-10.4--10.9/14082015	Solid	08/14/15 11:55	08/15/15 09:45
200-29296-11	RXR8A/-9.3--9.9/14082015	Solid	08/14/15 12:15	08/15/15 09:45
200-29296-12	RXR8B/-9.9--10.4/14082015	Solid	08/14/15 12:25	08/15/15 09:45
200-29296-13	RXR8C/-10.4--10.9/14082015	Solid	08/14/15 12:35	08/15/15 09:45
200-29296-14	RXR4A/-6.2--10.9/14082015	Solid	08/14/15 14:40	08/15/15 09:45
200-29296-17	DUP003	Solid	08/14/15 00:00	08/15/15 09:45
200-29296-19	DUP005	Solid	08/14/15 00:00	08/15/15 09:45
200-29296-20	TB1	Water	08/14/15 00:00	08/15/15 09:45
200-29296-21	TB2	Water	08/14/15 00:00	08/15/15 09:45

SDG # 200-292962 Analytical Report..... 1

Sample Receipt Documentation 49

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 200-29296-2

Glen Isle Waterfront Redevelop
SDG #: 200-292962

Stephanie Sanders

TestAmerica Burlington
30 Community Drive, Suite #11
South Burlington, VT 05403

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

September 11, 2015

ANALYTICAL METHODS SUMMARY

200-292962

PARAMETER	ANALYTICAL METHOD
Dibenzodioxins and Dibenzofurans, HRGC/HRMS	SW846 8290A
Percent Moisture	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

200-292962 : H5H260402

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7HRM	001	RXR5A/-9.6--9.9/14082015	08/14/15	09:15
M7HRN	002	RXR5B/-9.6--10.4/14082015	08/14/15	09:25
M7HRP	003	RXR5C/-10.4--10.9/14082015	08/14/15	09:35
M7HRQ	004	RXR7A/-8.7--9.9/14082015	08/14/15	11:35
M7HRR	005	RXR7B/-9.9--10.4/14082015	08/14/15	11:45
M7HRT	006	RXR7C/-10.4--10.9/14082015	08/14/15	11:55
M7HRV	007	RXR8A/-9.3--9.9/14082015	08/14/15	12:15
M7HRW	008	RXR8B/-9.9--10.4/14082015	08/14/15	12:25
M7HRX	009	RXR8C/-10.4--10.9/14082015	08/14/15	12:35
M7HR0	010	RXR4A/-6.2--10.9/14082015	08/14/15	14:40
M7HR1	011	DUP003	08/14/15	
M7HR2	012	DUP005	08/14/15	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

200-292962 : H5I010413

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7JCD	001	FB001-14082015	08/14/15	06:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
200-292962

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Chain of custody documentation was not received with the sample shipment received on 9/1/15. An email copy was sent to the lab.

The lab received only the Field Blank samples for EPA method 8290 in the sample shipment received on 9/1/15.

The "Relinquished by" field on the chain of custody documentation for 9/1/15 did not contain a signature.

The chain of custody documentation for 9/1/15 listed Method 8280A, but the client confirmed that Method 8290A was required.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For solid and sediments samples, when percent moisture is included in the report header field, the sample results are reported on a dry weight basis. When percent moisture is not contained in the header field, sample results are reported on an as received or wet weight basis.

All QC criteria were met with the following exceptions:

For samples RXR5A/-9.6—9.9/14082015 matrix spike, RXR7A/-8.7—9.9/14082015, RXR7B/-9.9—10.4/14082015RXR7C/-10.4—10.9/14082015RXR8C/-10.4—10.9/14082015 and DUP005 the recoveries of several internal standards were below the lower acceptance criterion (40%). The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analytes was met. The results are reported in accordance with the standard operating procedure. As indicated by the referenced method, isotope dilution techniques produce results that are independent of internal standard recovery.

The matrix spike and duplicate on sample RXR5A/-9.6—9.9/14082015 exhibited several native recoveries outside the established QC limits. The laboratory control sample was within limits indicating a lack of sample homogeneity.

PROJECT NARRATIVE
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Comments:

All positive 2378-TCDF results at or above the minimum level were confirmed on a DB-225 column. The raw data for the DB-225 analyses are included in the data package directly following the primary Rtx-5 analysis. The results for the Rtx-5 and DB-225 analyses are included on one report form to correctly calculate the Total TEQ Concentration.

Several samples exhibited native OCDD above the upper calibration range. The method does not require further action be taken; therefore, the results were reported as is with an "E" qualifier.

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report, the ML is qualitatively defined as described above, and quantitatively defined as follows:

Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the Upper Calibration Level (UCL) described below. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest

PROJECT NARRATIVE
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calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this example, all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a detectable level. For this analysis, there is no method specified reporting level other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of ≥2.5 to 1. Therefore, the presence of any reportable amount of the analyte in the blank will result in a B qualifier on all associated samples.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. These may include one or more of the following:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio).
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- 2,3,7,8-TCDF result is reported from the non-isomer specific Rtx-5 column.
- Polychlorinated dibenzofuran purity. An interference may be present on the indicated polychlorinated dibenzofuran when a polychlorinated diphenyl ether peak is present and maximizes within +/- 3 seconds of the dibenzofuran candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer.

X – Other. See explanation in narrative.

Laboratory studies supporting risk assessment and Total Maximum Daily Load (TMDL) evaluations, frequently use qualified data reported as low as the Method Detection Limit (MDL), or the Estimated Detection Limit (EDL). Several of EPA's isotope dilution methods employ the EDL.[1,2,3] The EDL is based on a direct measurement of the signal-to-noise (S/N) ratio acquired during sample analysis. This S/N measurement is used to calculate the concentration in the sample corresponding to the minimum intensity of the smallest quantifiable peak. The EDL reflects the amount of the particular analyte which would be required to cause a positive result for the particular analysis. Because the S/N obtained covaries with recovery, instrument sensitivity and sample-specific cleanup efficacy, the EDL is a more valid measure of the

sensitivity of the entire analytical process for the specific sample than is an MDL run periodically on a reference matrix.

The EDL is typically calculated according to the following equation:

$$\text{Estimated Detection Limit} = \frac{N \times 2.5 \times Qis}{His \times RRF \times W \times S}$$

Where:

N	=	peak to peak noise of quantitation ion signal in the region of the ion chromatogram where the compound of interest is expected to elute
His	=	peak height of quantitation ion for appropriate internal standard
Qis	=	ng of internal standard added to sample
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor.)

This method of estimating the detection limit differs from the MDL in that it does not carry the requirement that the sample be statistically distinguished as being from a contaminated population. As results approach the EDL, the risk of false positives and the analytical uncertainty increase significantly. However, a low false positive well below the ML or MDL is often closer to the true value than an assumption that the target analyte is present at the detection or reporting limits. For relatively clean samples, MDL studies may give an elevated estimate of the detection limit. Additionally, on contaminated samples, the MDL may give a falsely low estimate of the detection limit.

$$\text{Analyte Concentration} = \frac{As \times Qis}{Ais \times RRF \times W \times S}$$

Where:

As	=	Sum of areas of the target peaks
Qis	=	ng of internal standard added to sample
Ais	=	Sum of areas of the internal standard peaks
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

In sample data, peaks must have an intensity of $\geq$2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times

PROJECT NARRATIVE
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the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 times the noise on the calibration. This is the result of normal variability. Because the source methods for the EDL (SW-846 8290 and 8280A) do not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

Footnotes:

1. Code of Federal Regulations, Part 136, Chapter 1, Appendix 1, October 1994: Method 1613 Tetra- Through Octa-Chlorinated Dioxins and Furans by Isotope Dilution High Resolution Gas Chromatography/High Resolution Mass Spectrometry.
2. U.S. EPA. Test Methods for Evaluating Solid Waste, Volume II, SW-846, Update III, December 1996. Method 8280A: The Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry.
3. U.S. EPA. Test Methods for Evaluating Solid Waste, SW-846. Third Edition. March 1995 Method 8290: Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA150004
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	TN02014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-14-7
TestAmerica Knoxville	Federal	USDA		P330-11-00260
TestAmerica Knoxville	Utah	NELAC	8	TN000092014-5
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	00165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes in this report. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

TestAmerica Burlington

Client Sample ID: RXR5A/-9.6--9.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 001	**Work Order #....:**	M7HRM1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	60
Initial Wgt/Vol :	20.2 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	1.19 Q J	1.22	0.390	1.0	1.19
1,2,3,7,8-PeCDD	9/4/15	1	2.10 J	6.12	0.215	0.5	1.05
1,2,3,4,7,8-HxCDD	9/4/15	1	2.99 J	6.12	0.228	0.1	0.299
1,2,3,6,7,8-HxCDD	9/4/15	1	8.89	6.12	0.244	0.1	0.889
1,2,3,7,8,9-HxCDD	9/4/15	1	7.35	6.12	0.219	0.1	0.735
1,2,3,4,6,7,8-HpCDD	9/4/15	1	196 B	6.12	0.168	0.01	1.96
OCDD	9/4/15	1	2890 B	12.2	0.183	0.001	2.89
2,3,7,8-TCDF	9/4/15	1	9.48	1.22	0.131	0.1	0.948
1,2,3,7,8-PeCDF	9/4/15	1	4.41 J	6.12	0.235	0.05	0.220
2,3,4,7,8-PeCDF	9/4/15	1	8.27	6.12	0.230	0.5	4.13
1,2,3,4,7,8-HxCDF	9/4/15	1	15.9 Q	6.12	0.170	0.1	1.59
1,2,3,6,7,8-HxCDF	9/4/15	1	6.28	6.12	0.178	0.1	0.628
2,3,4,6,7,8-HxCDF	9/4/15	1	5.64 J	6.12	0.178	0.1	0.564
1,2,3,7,8,9-HxCDF	9/4/15	1	0.428 Q J	6.12	0.208	0.1	0.0428
1,2,3,4,6,7,8-HpCDF	9/4/15	1	49.9 Q B	6.12	0.196	0.01	0.499
1,2,3,4,7,8,9-HpCDF	9/4/15	1	3.76 J	6.12	0.227	0.01	0.0376
OCDF	9/4/15	1	86.3 B	12.2	0.183	0.001	0.0863
Total TEQ Concentration							17.8

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	62	(40 - 135)
13C-1,2,3,7,8-PeCDD	57	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	62	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	61	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	65	(40 - 135)
13C-OCDD	60	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	54	(40 - 135)
13C-2,3,4,7,8-PeCDF	54	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	53	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	56	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	57	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	56	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	58	(40 - 135)
13C-OCDF	52	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR5A/-9.6--9.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR5B/-9.6--10.4/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 002	**Work Order #....:**	M7HRN1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	61
Initial Wgt/Vol :	20.1 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/4/15**	**1**	**1.54**	**1.27**	**0.532**	**1.0**	**1.54**
1,2,3,7,8-PeCDD	**9/4/15**	**1**	**3.58 J**	**6.36**	**0.359**	**0.5**	**1.79**
1,2,3,4,7,8-HxCDD	**9/4/15**	**1**	**4.30 J**	**6.36**	**0.374**	**0.1**	**0.430**
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**17.2**	**6.36**	**0.373**	**0.1**	**1.72**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**14.0 C**	**6.36**	**0.347**	**0.1**	**1.40**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**517 B**	**6.36**	**0.446**	**0.01**	**5.17**
OCDD	**9/4/15**	**1**	**6870 B E**	**12.7**	**0.420**	**0.001**	**6.87**
2,3,7,8-TCDF	**9/9/15**	**1**	**13.7**	**1.27**	**0.171**	**0.1**	**1.37**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**5.96 Q J**	**6.36**	**0.347**	**0.05**	**0.298**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**10.4**	**6.36**	**0.338**	**0.5**	**5.20**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**21.2 Q**	**6.36**	**0.257**	**0.1**	**2.12**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**8.16**	**6.36**	**0.248**	**0.1**	**0.816**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**7.42**	**6.36**	**0.274**	**0.1**	**0.742**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	6.36	0.301	0.1	0.0150
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**79.9 B**	**6.36**	**0.371**	**0.01**	**0.799**
1,2,3,4,7,8,9-HpCDF	**9/4/15**	**1**	**6.60 Q**	**6.36**	**0.425**	**0.01**	**0.0660**
OCDF	**9/4/15**	**1**	**214 B**	**12.7**	**0.301**	**0.001**	**0.214**
Total TEQ Concentration							**30.6**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	61	(40 - 135)
13C-1,2,3,7,8-PeCDD	49	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	60	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	58	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	55	(40 - 135)
13C-OCDD	45	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	45	(40 - 135)
13C-2,3,4,7,8-PeCDF	44	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	53	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	56	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	55	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	51	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	50	(40 - 135)
13C-OCDF	40	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR5C/-10.4--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 003	**Work Order #....:**	M7HRP1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	38
Initial Wgt/Vol :	16.8 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/4/15**	**1**	**0.437 Q J**	**0.965**	**0.411**	**1.0**	**0.437**
1,2,3,7,8-PeCDD	**9/4/15**	**1**	**1.71 Q J**	**4.83**	**0.272**	**0.5**	**0.855**
1,2,3,4,7,8-HxCDD	**9/4/15**	**1**	**2.01 J**	**4.83**	**0.254**	**0.1**	**0.201**
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**9.80**	**4.83**	**0.254**	**0.1**	**0.980**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**8.24 C**	**4.83**	**0.236**	**0.1**	**0.824**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**155 B**	**4.83**	**0.348**	**0.01**	**1.55**
OCDD	**9/4/15**	**1**	**4970 B E**	**9.65**	**0.296**	**0.001**	**4.97**
2,3,7,8-TCDF	**9/9/15**	**1**	**11.3**	**0.965**	**0.198**	**0.1**	**1.13**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**4.79 Q J**	**4.83**	**0.279**	**0.05**	**0.239**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**11.5**	**4.83**	**0.283**	**0.5**	**5.75**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**21.1 C**	**4.83**	**0.189**	**0.1**	**2.11**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**6.05**	**4.83**	**0.192**	**0.1**	**0.605**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**4.50 J**	**4.83**	**0.204**	**0.1**	**0.450**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	4.83	0.215	0.1	0.0107
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**49.2 B**	**4.83**	**0.269**	**0.01**	**0.492**
1,2,3,4,7,8,9-HpCDF	**9/4/15**	**1**	**4.04 J**	**4.83**	**0.283**	**0.01**	**0.0404**
OCDF	**9/4/15**	**1**	**78.6 B**	**9.65**	**0.282**	**0.001**	**0.0786**
Total TEQ Concentration							**20.7**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	61	(40 - 135)
13C-1,2,3,7,8-PeCDD	54	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	59	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	57	(40 - 135)
13C-OCDD	53	(40 - 135)
13C-2,3,7,8-TCDF	75	(40 - 135)
13C-1,2,3,7,8-PeCDF	50	(40 - 135)
13C-2,3,4,7,8-PeCDF	49	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	53	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	53	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	54	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	57	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	52	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	55	(40 - 135)
13C-OCDF	46	(40 - 135)

NOTES:

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Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR7A/-8.7--9.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 004	**Work Order #....:**	M7HRQ1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	40
Initial Wgt/Vol :	16.9 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/10/15	1	2.20	0.994	0.719	1.0	2.20
1,2,3,7,8-PeCDD	9/10/15	1	9.33	4.97	0.789	0.5	4.66
1,2,3,4,7,8-HxCDD	9/10/15	1	13.1	4.97	1.33	0.1	1.31
1,2,3,6,7,8-HxCDD	9/10/15	1	40.2	4.97	1.40	0.1	4.02
1,2,3,7,8,9-HxCDD	9/10/15	1	34.9 C	4.97	1.27	0.1	3.49
1,2,3,4,6,7,8-HpCDD	9/10/15	1	820 B	4.97	1.55	0.01	8.20
OCDD	9/10/15	1	10300 B E	9.94	1.48	0.001	10.3
2,3,7,8-TCDF	9/9/15	1	14.4	0.994	0.214	0.1	1.44
1,2,3,7,8-PeCDF	9/10/15	1	10.5	4.97	0.750	0.05	0.525
2,3,4,7,8-PeCDF	9/10/15	1	20.7	4.97	0.823	0.5	10.3
1,2,3,4,7,8-HxCDF	9/10/15	1	67.8 Q	4.97	0.843	0.1	6.78
1,2,3,6,7,8-HxCDF	9/10/15	1	28.6	4.97	0.808	0.1	2.86
2,3,4,6,7,8-HxCDF	9/10/15	1	40.4	4.97	1.00	0.1	4.04
1,2,3,7,8,9-HxCDF	9/10/15	1	1.92 Q J	4.97	1.06	0.1	0.192
1,2,3,4,6,7,8-HpCDF	9/10/15	1	275 B	4.97	1.01	0.01	2.75
1,2,3,4,7,8,9-HpCDF	9/10/15	1	23.5 Q	4.97	1.17	0.01	0.235
OCDF	9/10/15	1	403 Q B	9.94	1.06	0.001	0.403
Total TEQ Concentration							63.8

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	47	(40 - 135)
13C-1,2,3,7,8-PeCDD	29 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	43	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	39 *	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	34 *	(40 - 135)
13C-OCDD	27 *	(40 - 135)
13C-2,3,7,8-TCDF	61	(40 - 135)
13C-1,2,3,7,8-PeCDF	29 *	(40 - 135)
13C-2,3,4,7,8-PeCDF	26 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	43	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	40	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	38 *	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	42	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	35 *	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	34 *	(40 - 135)
13C-OCDF	24 *	(40 - 135)

NOTES:

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When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR7B/-9.9--10.4/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 005	**Work Order #....:**	M7HRR1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	44
Initial Wgt/Vol :	18.1 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	1.38	0.992	0.607	1.0	1.38
1,2,3,7,8-PeCDD	9/4/15	1	4.88 Q J	4.96	0.329	0.5	2.44
1,2,3,4,7,8-HxCDD	9/4/15	1	6.57 Q	4.96	0.586	0.1	0.657
1,2,3,6,7,8-HxCDD	9/4/15	1	17.6	4.96	0.588	0.1	1.76
1,2,3,7,8,9-HxCDD	9/4/15	1	16.7 C	4.96	0.546	0.1	1.67
1,2,3,4,6,7,8-HpCDD	9/4/15	1	315 B	4.96	0.538	0.01	3.15
OCDD	9/4/15	1	4290 B E	9.92	0.824	0.001	4.29
2,3,7,8-TCDF	9/9/15	1	15.3	0.992	0.267	0.1	1.53
1,2,3,7,8-PeCDF	9/4/15	1	7.04 Q	4.96	0.370	0.05	0.352
2,3,4,7,8-PeCDF	9/4/15	1	14.7	4.96	0.357	0.5	7.35
1,2,3,4,7,8-HxCDF	9/4/15	1	34.1 C	4.96	0.399	0.1	3.41
1,2,3,6,7,8-HxCDF	9/4/15	1	12.6	4.96	0.426	0.1	1.26
2,3,4,6,7,8-HxCDF	9/4/15	1	15.9	4.96	0.464	0.1	1.59
1,2,3,7,8,9-HxCDF	9/4/15	1	1.27 Q J	4.96	0.503	0.1	0.127
1,2,3,4,6,7,8-HpCDF	9/4/15	1	109 B	4.96	0.564	0.01	1.09
1,2,3,4,7,8,9-HpCDF	9/4/15	1	11.7	4.96	0.670	0.01	0.117
OCDF	9/4/15	1	156 B	9.92	1.74	0.001	0.156
Total TEQ Concentration							**32.3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	54	(40 - 135)
13C-1,2,3,7,8-PeCDD	40	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	52	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	45	(40 - 135)
13C-OCDD	31 *	(40 - 135)
13C-2,3,7,8-TCDF	69	(40 - 135)
13C-1,2,3,7,8-PeCDF	39 *	(40 - 135)
13C-2,3,4,7,8-PeCDF	36 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	49	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	47	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	47	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	49	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	45	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	44	(40 - 135)
13C-OCDF	29 *	(40 - 135)

NOTES:

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TestAmerica Burlington

Client Sample ID: RXR7B/-9.9--10.4/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

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When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR7C/-10.4--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 006	**Work Order #....:**	M7HRT1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	44
Initial Wgt/Vol :	18.2 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	1.25 Q	0.983	0.536	1.0	1.25
1,2,3,7,8-PeCDD	9/4/15	1	5.72	4.92	0.485	0.5	2.86
1,2,3,4,7,8-HxCDD	9/4/15	1	9.16	4.92	0.601	0.1	0.916
1,2,3,6,7,8-HxCDD	9/4/15	1	25.2	4.92	0.636	0.1	2.52
1,2,3,7,8,9-HxCDD	9/4/15	1	22.9 C	4.92	0.575	0.1	2.29
1,2,3,4,6,7,8-HpCDD	9/4/15	1	429 B	4.92	0.834	0.01	4.29
OCDD	9/4/15	1	5280 B E	9.83	1.10	0.001	5.28
2,3,7,8-TCDF	9/9/15	1	17.7	0.983	0.147	0.1	1.77
1,2,3,7,8-PeCDF	9/4/15	1	9.04 Q	4.92	0.366	0.05	0.452
2,3,4,7,8-PeCDF	9/4/15	1	17.1	4.92	0.386	0.5	8.55
1,2,3,4,7,8-HxCDF	9/4/15	1	43.7 C	4.92	0.398	0.1	4.37
1,2,3,6,7,8-HxCDF	9/4/15	1	18.4 Q	4.92	0.410	0.1	1.84
2,3,4,6,7,8-HxCDF	9/4/15	1	23.7	4.92	0.453	0.1	2.37
1,2,3,7,8,9-HxCDF	9/4/15	1	1.77 J	4.92	0.522	0.1	0.177
1,2,3,4,6,7,8-HpCDF	9/4/15	1	158 B	4.92	0.483	0.01	1.58
1,2,3,4,7,8,9-HpCDF	9/4/15	1	16.0	4.92	0.533	0.01	0.160
OCDF	9/4/15	1	230 B	9.83	1.03	0.001	0.230
Total TEQ Concentration							40.9

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	55	(40 - 135)
13C-1,2,3,7,8-PeCDD	36 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	54	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	52	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	42	(40 - 135)
13C-OCDD	24 *	(40 - 135)
13C-2,3,7,8-TCDF	73	(40 - 135)
13C-1,2,3,7,8-PeCDF	36 *	(40 - 135)
13C-2,3,4,7,8-PeCDF	33 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	51	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	48	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	48	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	48	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	41	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	37 *	(40 - 135)
13C-OCDF	22 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR7C/-10.4--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR8A/-9.3--9.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 007	**Work Order #....:**	M7HRV1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	20
Initial Wgt/Vol :	12.8 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	ND	0.975	0.407	1.0	0.203
1,2,3,7,8-PeCDD	**9/4/15**	**1**	**0.626 Q J**	**4.88**	**0.192**	**0.5**	**0.313**
1,2,3,4,7,8-HxCDD	**9/4/15**	**1**	**0.615 J**	**4.88**	**0.262**	**0.1**	**0.0615**
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**2.41 J**	**4.88**	**0.260**	**0.1**	**0.241**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**2.38 Q J**	**4.88**	**0.242**	**0.1**	**0.238**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**55.0 B**	**4.88**	**0.278**	**0.01**	**0.550**
OCDD	**9/4/15**	**1**	**909 B**	**9.75**	**0.407**	**0.001**	**0.909**
2,3,7,8-TCDF	**9/9/15**	**1**	**2.38**	**0.975**	**0.123**	**0.1**	**0.238**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**1.12 J**	**4.88**	**0.190**	**0.05**	**0.0560**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**2.40 J**	**4.88**	**0.173**	**0.5**	**1.20**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**4.19 J**	**4.88**	**0.185**	**0.1**	**0.419**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**2.97 J**	**4.88**	**0.186**	**0.1**	**0.297**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**2.03 Q J**	**4.88**	**0.191**	**0.1**	**0.203**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	4.88	0.225	0.1	0.0112
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**14.9 B**	**4.88**	**0.213**	**0.01**	**0.149**
1,2,3,4,7,8,9-HpCDF	**9/4/15**	**1**	**1.54 Q J**	**4.88**	**0.248**	**0.01**	**0.0154**
OCDF	**9/4/15**	**1**	**26.1 B**	**9.75**	**0.281**	**0.001**	**0.0261**
Total TEQ Concentration							**5.13**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	(40 - 135)
13C-1,2,3,7,8-PeCDD	62	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	67	(40 - 135)
13C-OCDD	58	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	57	(40 - 135)
13C-2,3,4,7,8-PeCDF	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	61	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	60	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	62	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	61	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	64	(40 - 135)
13C-OCDF	53	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR8A/-9.3--9.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR8B/-9.9--10.4/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 008	**Work Order #....:**	M7HRW1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	27
Initial Wgt/Vol :	13.8 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/9/15	1	0.621 Q J	0.986	0.502	1.0	0.621
1,2,3,7,8-PeCDD	9/9/15	1	1.52 Q J	4.93	0.204	0.5	0.760
1,2,3,4,7,8-HxCDD	9/9/15	1	1.86 Q J	4.93	0.223	0.1	0.186
1,2,3,6,7,8-HxCDD	9/9/15	1	5.27	4.93	0.233	0.1	0.527
1,2,3,7,8,9-HxCDD	9/9/15	1	4.60 J C	4.93	0.212	0.1	0.460
1,2,3,4,6,7,8-HpCDD	9/9/15	1	138 B	4.93	0.241	0.01	1.38
OCDD	9/9/15	1	2040 B	9.86	0.213	0.001	2.04
2,3,7,8-TCDF	9/9/15	1	8.26	0.986	0.167	0.1	0.826
1,2,3,7,8-PeCDF	9/9/15	1	3.30 J	4.93	0.219	0.05	0.165
2,3,4,7,8-PeCDF	9/9/15	1	6.64	4.93	0.207	0.5	3.32
1,2,3,4,7,8-HxCDF	9/9/15	1	10.3 C	4.93	0.149	0.1	1.03
1,2,3,6,7,8-HxCDF	9/9/15	1	7.24	4.93	0.141	0.1	0.724
2,3,4,6,7,8-HxCDF	9/9/15	1	4.60 J	4.93	0.156	0.1	0.460
1,2,3,7,8,9-HxCDF	9/9/15	1	0.462 Q J	4.93	0.181	0.1	0.0462
1,2,3,4,6,7,8-HpCDF	9/9/15	1	44.7 Q B	4.93	0.184	0.01	0.447
1,2,3,4,7,8,9-HpCDF	9/9/15	1	3.04 J	4.93	0.213	0.01	0.0304
OCDF	9/9/15	1	53.7 B	9.86	0.171	0.001	0.0537
Total TEQ Concentration							**13.1**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	(40 - 135)
13C-1,2,3,7,8-PeCDD	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	62	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	62	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	65	(40 - 135)
13C-OCDD	66	(40 - 135)
13C-2,3,7,8-TCDF	71	(40 - 135)
13C-1,2,3,7,8-PeCDF	68	(40 - 135)
13C-2,3,4,7,8-PeCDF	70	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	59	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	59	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	60	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	62	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	61	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	64	(40 - 135)
13C-OCDF	61	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR8C/-10.4--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 009	**Work Order #....:**	M7HRX1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	27
Initial Wgt/Vol :	13.7 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/9/15	1	1.74 Q	1.00	0.648	1.0	1.74
1,2,3,7,8-PeCDD	9/9/15	1	2.82 J	5.02	0.294	0.5	1.41
1,2,3,4,7,8-HxCDD	9/9/15	1	3.75 J	5.02	0.321	0.1	0.375
1,2,3,6,7,8-HxCDD	9/9/15	1	12.7	5.02	0.332	0.1	1.27
1,2,3,7,8,9-HxCDD	9/9/15	1	10.6 C	5.02	0.303	0.1	1.06
1,2,3,4,6,7,8-HpCDD	9/9/15	1	374 B	5.02	0.341	0.01	3.74
OCDD	9/9/15	1	5400 B E	10.0	0.336	0.001	5.40
2,3,7,8-TCDF	9/9/15	1	15.7	1.00	0.196	0.1	1.57
1,2,3,7,8-PeCDF	9/9/15	1	6.20	5.02	0.322	0.05	0.310
2,3,4,7,8-PeCDF	9/9/15	1	12.3	5.02	0.319	0.5	6.15
1,2,3,4,7,8-HxCDF	9/9/15	1	24.4 Q	5.02	0.241	0.1	2.44
1,2,3,6,7,8-HxCDF	9/9/15	1	9.61	5.02	0.242	0.1	0.961
2,3,4,6,7,8-HxCDF	9/9/15	1	7.72	5.02	0.265	0.1	0.772
1,2,3,7,8,9-HxCDF	9/9/15	1	0.646 J	5.02	0.287	0.1	0.0646
1,2,3,4,6,7,8-HpCDF	9/9/15	1	85.2 B	5.02	0.264	0.01	0.852
1,2,3,4,7,8,9-HpCDF	9/9/15	1	6.51 Q	5.02	0.302	0.01	0.0651
OCDF	9/9/15	1	163 B	10.0	0.321	0.001	0.163
Total TEQ Concentration							**28.3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	44	(40 - 135)
13C-1,2,3,7,8-PeCDD	42	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	47	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	48	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	46	(40 - 135)
13C-OCDD	38 *	(40 - 135)
13C-2,3,7,8-TCDF	54	(40 - 135)
13C-1,2,3,7,8-PeCDF	42	(40 - 135)
13C-2,3,4,7,8-PeCDF	40	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	43	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	41	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	43	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	43	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	42	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	42	(40 - 135)
13C-OCDF	34 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR8C/-10.4--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR4A/-6.2--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 010	**Work Order #....:**	M7HR01AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	24
Initial Wgt/Vol :	13.7 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/9/15	1	ND	0.957	0.364	1.0	0.182
1,2,3,7,8-PeCDD	**9/9/15**	**1**	**0.546 Q J**	**4.79**	**0.157**	**0.5**	**0.273**
1,2,3,4,7,8-HxCDD	**9/9/15**	**1**	**0.729 Q J**	**4.79**	**0.153**	**0.1**	**0.0729**
1,2,3,6,7,8-HxCDD	**9/9/15**	**1**	**1.16 J**	**4.79**	**0.157**	**0.1**	**0.116**
1,2,3,7,8,9-HxCDD	**9/9/15**	**1**	**1.67 Q J**	**4.79**	**0.144**	**0.1**	**0.167**
1,2,3,4,6,7,8-HpCDD	**9/9/15**	**1**	**29.4 B**	**4.79**	**0.211**	**0.01**	**0.294**
OCDD	**9/9/15**	**1**	**991 B**	**9.57**	**0.285**	**0.001**	**0.991**
2,3,7,8-TCDF	**9/9/15**	**1**	**0.803 Q J**	**0.957**	**0.222**	**0.1**	**0.0803**
1,2,3,7,8-PeCDF	**9/9/15**	**1**	**0.462 J**	**4.79**	**0.114**	**0.05**	**0.0231**
2,3,4,7,8-PeCDF	**9/9/15**	**1**	**0.662 J**	**4.79**	**0.108**	**0.5**	**0.331**
1,2,3,4,7,8-HxCDF	**9/9/15**	**1**	**0.674 J**	**4.79**	**0.107**	**0.1**	**0.0674**
1,2,3,6,7,8-HxCDF	**9/9/15**	**1**	**1.03 Q J**	**4.79**	**0.0998**	**0.1**	**0.103**
2,3,4,6,7,8-HxCDF	**9/9/15**	**1**	**0.679 Q J**	**4.79**	**0.108**	**0.1**	**0.0679**
1,2,3,7,8,9-HxCDF	**9/9/15**	**1**	**0.256 Q J**	**4.79**	**0.124**	**0.1**	**0.0256**
1,2,3,4,6,7,8-HpCDF	**9/9/15**	**1**	**7.36 B**	**4.79**	**0.150**	**0.01**	**0.0736**
1,2,3,4,7,8,9-HpCDF	**9/9/15**	**1**	**0.624 Q J**	**4.79**	**0.169**	**0.01**	**0.00624**
OCDF	**9/9/15**	**1**	**12.7 B**	**9.57**	**0.205**	**0.001**	**0.0127**

Total TEQ Concentration **2.89**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(40 - 135)
13C-1,2,3,7,8-PeCDD	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	68	(40 - 135)
13C-OCDD	61	(40 - 135)
13C-2,3,7,8-TCDF	69	(40 - 135)
13C-1,2,3,7,8-PeCDF	73	(40 - 135)
13C-2,3,4,7,8-PeCDF	72	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	61	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	66	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	63	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	65	(40 - 135)
13C-OCDF	58	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR4A/-6.2--10.9/14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: DUP003

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 011	**Work Order #....:**	M7HR11AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	14
Initial Wgt/Vol :	12.2 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/9/15	1	0.356 Q J	0.959	0.334	1.0	0.356
1,2,3,7,8-PeCDD	9/9/15	1	0.415 Q J	4.79	0.133	0.5	0.207
1,2,3,4,7,8-HxCDD	9/9/15	1	0.352 J	4.79	0.119	0.1	0.0352
1,2,3,6,7,8-HxCDD	9/9/15	1	0.632 Q J	4.79	0.129	0.1	0.0632
1,2,3,7,8,9-HxCDD	9/9/15	1	0.997 J C	4.79	0.115	0.1	0.0997
1,2,3,4,6,7,8-HpCDD	9/9/15	1	18.3 B	4.79	0.246	0.01	0.183
OCDD	9/9/15	1	775 B	9.59	0.322	0.001	0.775
2,3,7,8-TCDF	9/9/15	1	0.681 Q J	0.959	0.192	0.1	0.0681
1,2,3,7,8-PeCDF	9/9/15	1	0.254 J	4.79	0.0968	0.05	0.0127
2,3,4,7,8-PeCDF	9/9/15	1	0.398 J	4.79	0.0972	0.5	0.199
1,2,3,4,7,8-HxCDF	9/9/15	1	0.893 Q J	4.79	0.0731	0.1	0.0893
1,2,3,6,7,8-HxCDF	9/9/15	1	0.476 Q J	4.79	0.0776	0.1	0.0476
2,3,4,6,7,8-HxCDF	9/9/15	1	0.532 Q J	4.79	0.0801	0.1	0.0532
1,2,3,7,8,9-HxCDF	9/9/15	1	ND	4.79	0.103	0.1	0.00515
1,2,3,4,6,7,8-HpCDF	9/9/15	1	4.84 B	4.79	0.144	0.01	0.0484
1,2,3,4,7,8,9-HpCDF	9/9/15	1	0.537 Q J	4.79	0.170	0.01	0.00537
OCDF	9/9/15	1	7.71 B J	9.59	0.249	0.001	0.00771
Total TEQ Concentration							**2.26**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	(40 - 135)
13C-1,2,3,7,8-PeCDD	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	79	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	62	(40 - 135)
13C-OCDD	49	(40 - 135)
13C-2,3,7,8-TCDF	69	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-2,3,4,7,8-PeCDF	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	74	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	74	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	60	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	63	(40 - 135)
13C-OCDF	46	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: DUP003

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: DUP005

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260402 - 012	**Work Order #....:**	M7HR21AC	**Matrix.....:**	SOLID
Date Sampled....:	08/14/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239011			**Percent Moisture:**	48
Initial Wgt/Vol :	19.4 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/10/15**	**1**	**2.04**	**0.998**	**0.602**	**1.0**	**2.04**
1,2,3,7,8-PeCDD	**9/10/15**	**1**	**7.79 Q**	**4.99**	**0.496**	**0.5**	**3.90**
1,2,3,4,7,8-HxCDD	**9/10/15**	**1**	**10.6**	**4.99**	**0.704**	**0.1**	**1.06**
1,2,3,6,7,8-HxCDD	**9/10/15**	**1**	**30.2**	**4.99**	**0.692**	**0.1**	**3.02**
1,2,3,7,8,9-HxCDD	**9/10/15**	**1**	**30.9 C**	**4.99**	**0.649**	**0.1**	**3.09**
1,2,3,4,6,7,8-HpCDD	**9/10/15**	**1**	**481 B**	**4.99**	**0.861**	**0.01**	**4.81**
OCDD	**9/10/15**	**1**	**5050 B E**	**9.98**	**1.12**	**0.001**	**5.05**
2,3,7,8-TCDF	**9/9/15**	**1**	**15.2**	**0.998**	**0.208**	**0.1**	**1.52**
1,2,3,7,8-PeCDF	**9/10/15**	**1**	**10.0**	**4.99**	**0.407**	**0.05**	**0.500**
2,3,4,7,8-PeCDF	**9/10/15**	**1**	**19.8 C**	**4.99**	**0.452**	**0.5**	**9.90**
1,2,3,4,7,8-HxCDF	**9/10/15**	**1**	**55.2 C**	**4.99**	**0.479**	**0.1**	**5.52**
1,2,3,6,7,8-HxCDF	**9/10/15**	**1**	**24.3**	**4.99**	**0.486**	**0.1**	**2.43**
2,3,4,6,7,8-HxCDF	**9/10/15**	**1**	**33.6**	**4.99**	**0.584**	**0.1**	**3.36**
1,2,3,7,8,9-HxCDF	9/10/15	1	ND	4.99	0.648	0.1	0.0324
1,2,3,4,6,7,8-HpCDF	**9/10/15**	**1**	**222 B**	**4.99**	**0.821**	**0.01**	**2.22**
1,2,3,4,7,8,9-HpCDF	**9/10/15**	**1**	**21.9 Q**	**4.99**	**0.828**	**0.01**	**0.219**
OCDF	**9/10/15**	**1**	**268 B**	**9.98**	**1.07**	**0.001**	**0.268**
Total TEQ Concentration							**48.9**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	55	(40 - 135)
13C-1,2,3,7,8-PeCDD	37 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	51	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	50	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	38 *	(40 - 135)
13C-OCDD	21 *	(40 - 135)
13C-2,3,7,8-TCDF	65	(40 - 135)
13C-1,2,3,7,8-PeCDF	40	(40 - 135)
13C-2,3,4,7,8-PeCDF	35 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	50	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	47	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	45	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	45	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	38 *	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	38 *	(40 - 135)
13C-OCDF	19 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: DUP005

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
E	Estimated result. Result concentration exceeds the calibration range.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: FB001-14082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5I010413 - 001	**Work Order #....:**	M7JCD1AA	**Matrix.....:**	WATER
Date Sampled....:	08/14/15	**Date Received....:**	09/01/15	**Units....:**	pg/L
Prep Date....:	09/02/15			**Dilution Factor:**	1
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	896 mL	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/10/15	1	ND	11.2	1.45	1.0	0.725
1,2,3,7,8-PeCDD	9/10/15	1	ND	55.8	0.651	0.5	0.163
1,2,3,4,7,8-HxCDD	9/10/15	1	ND	55.8	0.744	0.1	0.0372
1,2,3,6,7,8-HxCDD	9/10/15	1	ND	55.8	0.797	0.1	0.0398
1,2,3,7,8,9-HxCDD	9/10/15	1	ND	55.8	0.716	0.1	0.0358
1,2,3,4,6,7,8-HpCDD	9/10/15	1	ND	55.8	0.764	0.01	0.00382
OCDD	**9/10/15**	**1**	**7.70 B J**	**112**	**0.886**	**0.001**	**0.00770**
2,3,7,8-TCDF	9/10/15	1	ND	11.2	0.898	0.1	0.0449
1,2,3,7,8-PeCDF	9/10/15	1	ND	55.8	0.417	0.05	0.0104
2,3,4,7,8-PeCDF	9/10/15	1	ND	55.8	0.402	0.5	0.100
1,2,3,4,7,8-HxCDF	9/10/15	1	ND	55.8	0.347	0.1	0.0174
1,2,3,6,7,8-HxCDF	9/10/15	1	ND	55.8	0.334	0.1	0.0167
2,3,4,6,7,8-HxCDF	9/10/15	1	ND	55.8	0.366	0.1	0.0183
1,2,3,7,8,9-HxCDF	9/10/15	1	ND	55.8	0.436	0.1	0.0218
1,2,3,4,6,7,8-HpCDF	9/10/15	1	ND	55.8	0.474	0.01	0.00237
1,2,3,4,7,8,9-HpCDF	9/10/15	1	ND	55.8	0.664	0.01	0.00332
OCDF	9/10/15	1	ND	112	1.03	0.001	0.000515

Total TEQ Concentration **1.25**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(40 - 135)
13C-1,2,3,7,8-PeCDD	98	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	82	(40 - 135)
13C-OCDD	71	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
13C-1,2,3,7,8-PeCDF	87	(40 - 135)
13C-2,3,4,7,8-PeCDF	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	81	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	81	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	84	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	79	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	72	(40 - 135)
13C-OCDF	63	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: FB001-14082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 011B	**Work Order #....:**	M7HW61AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/04/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239011				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		1.00	0.299	pg/g
1,2,3,7,8-PeCDD	ND		5.00	0.0969	pg/g
1,2,3,4,7,8-HxCDD	ND		5.00	0.0769	pg/g
1,2,3,6,7,8-HxCDD	ND		5.00	0.0790	pg/g
1,2,3,7,8,9-HxCDD	ND		5.00	0.0725	pg/g
1,2,3,4,6,7,8-HpCDD	**0.247**	**Q J**	**5.00**	**0.0804**	**pg/g**
OCDD	**2.83**	**J**	**10.0**	**0.0901**	**pg/g**
2,3,7,8-TCDF	ND		1.00	0.135	pg/g
1,2,3,7,8-PeCDF	ND		5.00	0.0561	pg/g
2,3,4,7,8-PeCDF	ND		5.00	0.0524	pg/g
1,2,3,4,7,8-HxCDF	ND		5.00	0.0439	pg/g
1,2,3,6,7,8-HxCDF	ND		5.00	0.0458	pg/g
2,3,4,6,7,8-HxCDF	ND		5.00	0.0464	pg/g
1,2,3,7,8,9-HxCDF	ND		5.00	0.0558	pg/g
1,2,3,4,6,7,8-HpCDF	**0.155**	**Q J**	**5.00**	**0.0631**	**pg/g**
1,2,3,4,7,8,9-HpCDF	ND		5.00	0.0783	pg/g
OCDF	**1.18**	**J**	**10.0**	**0.0837**	**pg/g**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,4,7,8-HxCDD	66	40 - 135
13C-1,2,3,6,7,8-HxCDD	66	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	70	40 - 135
13C-OCDD	61	40 - 135
13C-2,3,7,8-TCDF	61	40 - 135
13C-1,2,3,7,8-PeCDF	66	40 - 135
13C-2,3,4,7,8-PeCDF	66	40 - 135
13C-1,2,3,4,7,8-HxCDF	61	40 - 135
13C-1,2,3,6,7,8-HxCDF	60	40 - 135
13C-2,3,4,6,7,8-HxCDF	63	40 - 135
13C-1,2,3,7,8,9-HxCDF	62	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	66	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	62	40 - 135
13C-OCDF	55	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 011B	**Work Order #....:**	M7HW61AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/04/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239011				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292962	**Work Order # ...:**	M7HW61AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H5H270000 - 011				
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/09/15		
Prep Batch # ...:	5239011				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	**20.0**	**21.6**	**pg/g**	**108**		**(79 - 129)**
1,2,3,7,8-PeCDD	**100**	**106**	**pg/g**	**106**		**(79 - 129)**
1,2,3,4,7,8-HxCDD	**100**	**102**	**pg/g**	**102**		**(73 - 123)**
1,2,3,6,7,8-HxCDD	**100**	**98.1**	**pg/g**	**98**		**(74 - 124)**
1,2,3,7,8,9-HxCDD	**100**	**103**	**pg/g**	**103**		**(70 - 124)**
1,2,3,4,6,7,8-HpCDD	**100**	**96.9**	**pg/g**	**97**	**B**	**(73 - 123)**
OCDD	**200**	**189**	**pg/g**	**94**	**B**	**(75 - 125)**
2,3,7,8-TCDF	**20.0**	**22.1**	**pg/g**	**110**		**(75 - 125)**
1,2,3,7,8-PeCDF	**100**	**94.6**	**pg/g**	**95**		**(74 - 124)**
2,3,4,7,8-PeCDF	**100**	**100**	**pg/g**	**100**		**(75 - 125)**
1,2,3,4,7,8-HxCDF	**100**	**98.6**	**pg/g**	**99**		**(75 - 125)**
1,2,3,6,7,8-HxCDF	**100**	**102**	**pg/g**	**102**		**(76 - 126)**
2,3,4,6,7,8-HxCDF	**100**	**99.0**	**pg/g**	**99**		**(76 - 126)**
1,2,3,7,8,9-HxCDF	**100**	**98.3**	**pg/g**	**98**		**(77 - 127)**
1,2,3,4,6,7,8-HpCDF	**100**	**94.2**	**pg/g**	**94**	**B**	**(77 - 127)**
1,2,3,4,7,8,9-HpCDF	**100**	**98.9**	**pg/g**	**99**		**(73 - 123)**
OCDF	**200**	**195**	**pg/g**	**97**	**B**	**(49 - 128)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	65	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	71	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	77	(40 - 135)
13C-OCDD	80	(40 - 135)
13C-2,3,7,8-TCDF	66	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-2,3,4,7,8-PeCDF	76	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	70	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	72	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	78	(40 - 135)
13C-OCDF	81	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292962	**Work Order # ...:**	M7HRM1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260402 - 001		M7HRM1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/04/15		
Prep Batch # ...:	5239011				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.2 g				

PARAMETER	SAMPLE AMOUNT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	1.19	24.5	27.4	pg/g	107	(79 - 129)		
	1.19	24.5	26.9	pg/g	105	(79 - 129)	1.8	(0 - 15)
1,2,3,7,8-PeCDD	2.10	122	128	pg/g	103	(79 - 129)		
	2.10	122	131	pg/g	105	(79 - 129)	1.6	(0 - 15)
1,2,3,4,7,8-HxCDD	2.99	122	122	pg/g	97	(73 - 123)		
	2.99	122	132	pg/g	105	(73 - 123)	8.0	(0 - 15)
1,2,3,6,7,8-HxCDD	8.89	122	133	pg/g	101	(73 - 127)		
	8.89	122	134	pg/g	102	(73 - 127)	0.63	(0 - 15)
1,2,3,7,8,9-HxCDD	7.35	122	123	pg/g	94	(65 - 141)		
	7.35	122	135	pg/g	104	(65 - 141)	9.2	(0 - 15)
1,2,3,4,6,7,8-HpCDD	196	122	376	pg/g	146 a B	(54 - 138)		
	196	122	399	pg/g	166 a B	(54 - 138)	6.1	(0 - 15)
OCDD	2890	245	4390	pg/g	612 a B	(31 - 154)		
	2890	245	5040	pg/g	878 a B E	(31 - 154)	14	(0 - 15)
2,3,7,8-TCDF	9.48	24.5	40.1	pg/g	125	(75 - 125)		
	9.48	24.5	41.7	pg/g	132 a	(75 - 125)	3.9	(0 - 15)
1,2,3,7,8-PeCDF	4.41	122	123	pg/g	97	(74 - 124)		
	4.41	122	124	pg/g	98	(74 - 124)	1.0	(0 - 15)
2,3,4,7,8-PeCDF	8.27	122	128	pg/g	97	(75 - 125)		
	8.27	122	131	pg/g	100	(75 - 125)	2.2	(0 - 15)
1,2,3,4,7,8-HxCDF	15.9	122	140	pg/g	101	(75 - 125)		
	15.9	122	146	pg/g	106	(75 - 125)	3.9	(0 - 15)
1,2,3,6,7,8-HxCDF	6.28	122	132	pg/g	103	(73 - 131)		
	6.28	122	132	pg/g	102	(73 - 131)	0.47	(0 - 15)
2,3,4,6,7,8-HxCDF	5.64	122	131	pg/g	103	(76 - 129)		
	5.64	122	135	pg/g	105	(76 - 129)	2.4	(0 - 15)
1,2,3,7,8,9-HxCDF	0.428	122	115	pg/g	94	(77 - 127)		
	0.428	122	121	pg/g	98	(77 - 127)	5.0	(0 - 15)
1,2,3,4,6,7,8-HpCDF	49.9	122	188	pg/g	112 B	(72 - 134)		
	49.9	122	203	pg/g	125 B	(72 - 134)	7.7	(0 - 15)
1,2,3,4,7,8,9-HpCDF	3.76	122	122	pg/g	96	(73 - 124)		
	3.76	122	130	pg/g	103	(73 - 124)	6.6	(0 - 15)
OCDF	86.3	245	361	pg/g	112 B	(45 - 135)		
	86.3	245	396	pg/g	126 B	(45 - 135)	9.2	(0 - 15)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292962	**Work Order # ...:**	M7HRM1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260402 - 001		M7HRM1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/04/15		
Prep Batch # ...:	5239011				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.2 g				

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	60		(40 - 135)
	63		(40 - 135)
13C-1,2,3,7,8-PeCDD	46		(40 - 135)
	49		(40 - 135)
13C-1,2,3,4,7,8-HxCDD	62		(40 - 135)
	56		(40 - 135)
13C-1,2,3,6,7,8-HxCDD	58		(40 - 135)
	59		(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	53		(40 - 135)
	63		(40 - 135)
13C-OCDD	39	*	(40 - 135)
	49		(40 - 135)
13C-2,3,7,8-TCDF	75		(40 - 135)
	76		(40 - 135)
13C-1,2,3,7,8-PeCDF	45		(40 - 135)
	47		(40 - 135)
13C-2,3,4,7,8-PeCDF	44		(40 - 135)
	44		(40 - 135)
13C-1,2,3,4,7,8-HxCDF	55		(40 - 135)
	56		(40 - 135)
13C-1,2,3,6,7,8-HxCDF	52		(40 - 135)
	54		(40 - 135)
13C-2,3,4,6,7,8-HxCDF	54		(40 - 135)
	55		(40 - 135)
13C-1,2,3,7,8,9-HxCDF	55		(40 - 135)
	58		(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	49		(40 - 135)
	57		(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	48		(40 - 135)
	57		(40 - 135)
13C-OCDF	35	*	(40 - 135)
	46		(40 - 135)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292962	**Work Order # ...:**	M7HRM1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260402 - 001		M7HRM1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/04/15		
Prep Batch # ...:	5239011				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.2 g				

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

*	Surrogate recovery is outside stated control limits.
a	Spiked analyte recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentration exceeds the calibration range.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10.0	1.53	pg/L
1,2,3,7,8-PeCDD	ND		50.0	0.578	pg/L
1,2,3,4,7,8-HxCDD	ND		50.0	0.575	pg/L
1,2,3,6,7,8-HxCDD	ND		50.0	0.601	pg/L
1,2,3,7,8,9-HxCDD	ND		50.0	0.547	pg/L
1,2,3,4,6,7,8-HpCDD	**1.15**	**Q J**	**50.0**	**0.497**	**pg/L**
OCDD	**11.0**	**J**	**100**	**0.789**	**pg/L**
2,3,7,8-TCDF	ND		10.0	0.927	pg/L
1,2,3,7,8-PeCDF	ND		50.0	0.368	pg/L
2,3,4,7,8-PeCDF	ND		50.0	0.335	pg/L
1,2,3,4,7,8-HxCDF	ND		50.0	0.392	pg/L
1,2,3,6,7,8-HxCDF	ND		50.0	0.385	pg/L
2,3,4,6,7,8-HxCDF	ND		50.0	0.382	pg/L
1,2,3,7,8,9-HxCDF	ND		50.0	0.496	pg/L
1,2,3,4,6,7,8-HpCDF	ND		50.0	0.451	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50.0	0.577	pg/L
OCDF	**3.90**	**J**	**100**	**0.717**	**pg/L**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	40 - 135
13C-1,2,3,7,8-PeCDD	89	40 - 135
13C-1,2,3,4,7,8-HxCDD	83	40 - 135
13C-1,2,3,6,7,8-HxCDD	80	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	80	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-2,3,4,7,8-PeCDF	82	40 - 135
13C-1,2,3,4,7,8-HxCDF	74	40 - 135
13C-1,2,3,6,7,8-HxCDF	73	40 - 135
13C-2,3,4,6,7,8-HxCDF	77	40 - 135
13C-1,2,3,7,8,9-HxCDF	78	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	77	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	75	40 - 135
13C-OCDF	73	40 - 135

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Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-292962	**Work Order # ...:**	M7JFV1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	H5I020000 - 017				
Prep Date .....:	09/02/15	**Analysis Date ..:**	09/10/15		
Prep Batch # ...:	5245017				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**209**	**pg/L**	**104**		**(77 - 127)**
1,2,3,7,8-PeCDD	**1000**	**1080**	**pg/L**	**108**		**(78 - 128)**
1,2,3,4,7,8-HxCDD	**1000**	**1060**	**pg/L**	**106**		**(73 - 123)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**		**(72 - 127)**
1,2,3,7,8,9-HxCDD	**1000**	**1030**	**pg/L**	**103**		**(76 - 126)**
1,2,3,4,6,7,8-HpCDD	**1000**	**974**	**pg/L**	**97**	**B**	**(73 - 123)**
OCDD	**2000**	**1830**	**pg/L**	**91**	**B**	**(75 - 125)**
2,3,7,8-TCDF	**200**	**219**	**pg/L**	**110**		**(74 - 124)**
1,2,3,7,8-PeCDF	**1000**	**986**	**pg/L**	**99**		**(74 - 124)**
2,3,4,7,8-PeCDF	**1000**	**1040**	**pg/L**	**104**		**(74 - 124)**
1,2,3,4,7,8-HxCDF	**1000**	**1030**	**pg/L**	**103**		**(75 - 125)**
1,2,3,6,7,8-HxCDF	**1000**	**1040**	**pg/L**	**104**		**(75 - 125)**
2,3,4,6,7,8-HxCDF	**1000**	**1010**	**pg/L**	**101**		**(76 - 126)**
1,2,3,7,8,9-HxCDF	**1000**	**1010**	**pg/L**	**101**		**(76 - 126)**
1,2,3,4,6,7,8-HpCDF	**1000**	**986**	**pg/L**	**99**		**(71 - 121)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1010**	**pg/L**	**101**		**(73 - 123)**
OCDF	**2000**	**1960**	**pg/L**	**98**	**B**	**(68 - 132)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	76	(40 - 135)
13C-OCDD	58	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	79	(40 - 135)
13C-2,3,4,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	81	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	71	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	66	(40 - 135)
13C-OCDF	54	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Sample Receipt Documentation

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

HSH260402

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22570.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29296-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalency Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR5A/-9.6--9.9/14082015 (200-29296-2)	8/14/15	09:15 Eastern		Solid			X	1	CUSTODY SEALS INTACT
RXR5A/-9.6--9.9/14082015 (200-29296-2MS)	8/14/15	09:15 Eastern	MS	Solid			X	1	RECEIVED AT RT 0.7/CT 0.7 C
RXR5B/-9.9--10.4/14082015 (200-29296-3)	8/14/15	09:25 Eastern		Solid			X	1	b/o 8-25-15
RXR5C/-10.4--10.9/14082015 (200-29296-4)	8/14/15	09:35 Eastern		Solid			X	1	1 COOLER FED X#
RXR7A/-8.7--9.9/14082015 (200-29296-8)	8/14/15	11:35 Eastern		Solid			X	1	6461840598 5
RXR7B/-9.9--10.4/14082015 (200-29296-9)	8/14/15	11:45 Eastern		Solid			X	1	
RXR7C/-10.4--10.9/14082015 (200-29296-10)	8/14/15	11:55 Eastern		Solid			X	1	
RXR8A/-9.3--9.9/14082015 (200-29296-11)	8/14/15	12:15 Eastern		Solid			X	1	
RXR8B/-9.9--10.4/14082015 (200-29296-12)	8/14/15	12:25 Eastern		Solid			X	1	
RXR8C/-10.4--10.9/14082015 (200-29296-13)	8/14/15	12:35 Eastern		Solid			X	1	
RXR4A/-6.2--10.9/14082015 (200-29296-14)	8/14/15	14:40 Eastern		Solid			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	8/24/15 1515	TT	[signature]	8-25-15 10:20	TA KNOX
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

HS17260402

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22570.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29296-2
Address: 5815 Middlebrook Pike,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalencey Total (Knoxville Laboratory))/ 8290A, Dioxin Toxlo Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DUP003 (200-29296-17)	8/14/15	Eastern		Solid			X	1	
DUP005 (200-29296-19)	8/14/15	Eastern		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/14/15 1515	TVT		8-25-15 10:21	TA KNOX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

HS1726402

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22571.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29296-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalency Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR5A/-9.6--9.9/14082015 (200-29296-2MSD)	8/14/15	09:15 Eastern	MSD	Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/24/15 1515	TAL		8.25-15 10:20	TA KNOX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 320726402

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : S057 Correction factor: 0.0	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** See box 3A for pH Preservation ☐ **3b** Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken
7. Were VOA samples received without headspace?		✓	✓	☐ **7a** Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	✓		✓	☐ **9a** Could not be determined due to matrix interference
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information
19. Was the sampler identified on the COC?		✓		☐ **19a** Other

Comments/Actions Taken

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: NA

Sample Receiving Associate: _____ Date: 8-25-15

QA026R29.doc, 041115

HSI D10413

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

200-29296 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Racaniello	Lab PM: Sanders, Stephanie D	QC No: 00-14290-6383.1
Client Contact: ~~Derek Erebak~~ Ellis Koch	Phone: (516)417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 2
Company: ~~P.W. Grosser Consulting~~ RXR-GT Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~ 1625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek Sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8290A 4435B Dioxins (TA Knoxville)	Total Number of Containers	Special Instructions/Note:
			Preservation Code		X	X	N	N	N	N	N	X	
FB001-14082015	8/14/15	0645	—	W ~~Solid~~			X	X	X	X	X	18	
RXR5A/-9.6--9.9/14082015/MS/MSD		0915	C	Solid		X	X	X	X	X	X	27	
RXR5B/-9.9--10.4/14082015		0925		Solid								9	
RXR5C/-10.4--10.9/14082015		0935		Solid									CUSTODY SEALS INTACT
RXR6A/-8.8--9.9/14082015		1105		Solid									RECEIVED AT RT 0.1/CT 0.1C
RXR6B/-9.9--10.4/14082015		1115		Solid									BKD 9-1-15
RXR6C/-10.4--10.9/14082015		1125		Solid									1 COOLER FEDX#
RXR7A/-8.7--9.9/14082015		1135		Solid									6503 7392 1660
RXR7B/-9.9--10.4/14082015		1145		Solid									
RXR7C/-10.4--10.9/14082015		1155		Solid									
RXR8A/-9.3--9.9/14082015		1215		Solid									

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/14/15 1525	PWGC			
B. Sammi	08-14-15 / 18:06		[signature]	8/15/15 0945	TABTV
			[signature]	9-1-15 10:15	TA KNOX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HSI1112413

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☑ 1f COC not received ☑ 1g Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: SG57 Correction factor: 0.0	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a See box 3A for pH Preservation ☐ 3b Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:
5. Were all of the samples listed on the COC received?		✓		☐ 5a Samples received-not on COC ☑ 5b Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken
7. Were VOA samples received without headspace?	✓		✓	☐ 7a Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	✓		✓	☐ 9a Could not be determined due to matrix interference
10. Were samples received within holding time?	✓			☐ 10a Holding time expired
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓	✓		☑ 14a Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information
18. Is the client and project name/# identified?	✓	✓		☐ 15a Incomplete information
19. Was the sampler identified on the COC?		✓		☐ 19a Other

Comments/Actions Taken

IF, USING EMAIL COPY

SB ONLY RECEIVED FIELD BLANKS FOR 8290 SAMPLES

HA

16, COC LIST 8280A, SHOULD BE 8290A

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: _____

Sample Receiving Associate: _____ Date: 9-1-15

QA026R29.doc, 041115

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

200-29296 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Racaniello	Lab PM: Sanders, Stephanie D	QC No: 00-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516)417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 2
Company: ~~P.W. Grosser Consulting~~ RXR-GT Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek Sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8280A ~~1613B~~ Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	F/J	N	N		
FB001-14082015	8/14/15	0645	—	W ~~Solid~~				X	X	X	X	X	18	
RXR5A/-9.6--9.9/14082015/MS/MSD		0915	C	Solid			X	X	X	X	X	X	27	
RXR5B/-9.9--10.4/14082015		0925		Solid									9	
RXR5C/-10.4--10.9/14082015		0935		Solid										
RXR6A/-8.8--9.9/14082015		1105		Solid										
RXR6B/-9.9--10.4/14082015		1115		Solid										
RXR6C/-10.4--10.9/14082015		1125		Solid										
RXR7A/-8.7--9.9/14082015		1135		Solid										
RXR7B/-9.9--10.4/14082015		1145		Solid										
RXR7C/-10.4--10.9/14082015		1155		Solid										
RXR8A/-9.3--9.9/14082015		1215		Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Andy Rich	8/14/15 1525	PWGC			
B. Sammi	08-14-15 / 18:06		[signature]	8/15/15 0945	TABTV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/30/2015

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Racenello	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1822	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: ~~P.W. Grosser Consulting~~ RXR-Glen Isle Partners LLC				Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:			
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):			
State, Zip: ~~NY, 11542~~				
Phone:	PO #: Purchase Order Requested			
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:			
Project Name: Glen Isle Creek sampling	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8290A Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	F/J	N	N		
RXR8B/-9.9-10.4/14082015	8/14/15	1225	C	Solid			X	X	X	X	X	X	9	
RXR8C/-10.4-10.9/14082015		1235		Solid										
RXR4A/-6.2-10.9/14082015		1440		Solid										
RXR4B/-10.9-11.4/14082015		1450		Solid										
RXR4C/-11.4-11.9/14082015		1500		Solid										
DUP003		—		Solid										
DUP004		—		Solid										
DUP005		—		Solid										
TB1	—	—	—	Solid									1	
TB2	—	—	—	Solid									1	
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Amanda J Racenello	8/14/15 1525	PWG			
2	B. Sanna	08-14-15 18:00			8/15/15 0945	TAB TV
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

9/30/2015

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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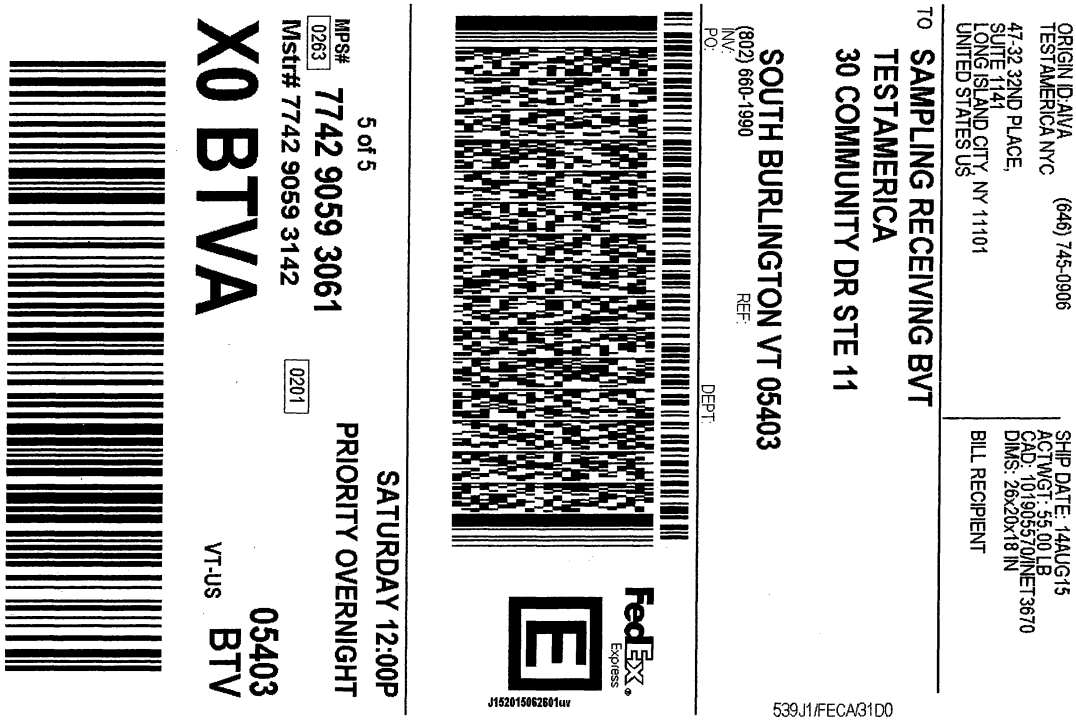
After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22569.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 200-29296-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2015			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_Ra228	A01R_U/Dry_Grind (MOD) Standard Target List	901.1_Ra/Dry_Grind (MOD) NORM Target List	A01R_Th/Dry_Grind (MOD) Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
RXR5A/-9.6--9.9/14082015 (200-29296-2)	8/14/15	09:15 Eastern		Solid			X	X	X	X	1	
RXR5A/-9.6--9.9/14082015 (200-29296-2DU)	8/14/15	09:15 Eastern	DU	Solid			X	X	X	X	1	
RXR5B/-9.9--10.4/14082015 (200-29296-3)	8/14/15	09:25 Eastern		Solid			X	X	X	X	1	
RXR5C/-10.4--10.9/14082015 (200-29296-4)	8/14/15	09:35 Eastern		Solid			X	X	X	X	1	
RXR7A/-8.7--9.9/14082015 (200-29296-8)	8/14/15	11:35 Eastern		Solid			X	X	X	X	1	
RXR7B/-9.9--10.4/14082015 (200-29296-9)	8/14/15	11:45 Eastern		Solid			X	X	X	X	1	
RXR7C/-10.4--10.9/14082015 (200-29296-10)	8/14/15	11:55 Eastern		Solid			X	X	X	X	1	
RXR8A/-9.3--9.9/14082015 (200-29296-11)	8/14/15	12:15 Eastern		Solid			X	X	X	X	1	
RXR8B/-9.9--10.4/14082015 (200-29296-12)	8/14/15	12:25 Eastern		Solid			X	X	X	X	1	
RXR8C/-10.4--10.9/14082015 (200-29296-13)	8/14/15	12:35 Eastern		Solid			X	X	X	X	1	
RXR4A/-6.2--10.9/14082015 (200-29296-14)	8/14/15	14:40 Eastern		Solid			X	X	X	X	1	

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	8/24/15 1500	TA		8.25.15 0930	TA STL
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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9/30/2015

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22569.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 200-29296-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2015			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 20005681			
Project Name: Glen Isle Waterfront Redevelopment	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_Ra228	A01R_U/Dry_Grind (MOD) Standard Target List	901.1_Ra/Dry_Grind (MOD) NORM Target List	A01R_Th/Dry_Grind (MOD) Standard Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DUP003 (200-29296-17)	8/14/15	Eastern		Solid			X	X	X	X	1	
DUP005 (200-29296-19)	8/14/15	Eastern		Solid			X	X	X	X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/24/15 1500	Company TA	Received by: Jill Clark	Date/Time: 8-25-15 0930	Company TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/30/2015

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22573.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29296-2
Address: 777 New Durham Road, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Edison	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7196A/3060A	6010C/3050B (MOD) Metals TCL List	7471B/7471B_Prep	8151A/8151A_SP (MOD) Standard Herbicide List - 3 cmpds	9012B/9012B_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
RXR5A/-9.6--9.9/14082015 (200-29296-2)	8/14/15	09:15 Eastern		Solid			X	X	X	X	X	X		
RXR5A/-9.6--9.9/14082015 (200-29296-2DU)	8/14/15	09:15 Eastern	DU	Solid			X	X	X	X		X		
RXR5A/-9.6--9.9/14082015 (200-29296-2MS)	8/14/15	09:15 Eastern	MS	Solid					X	X	X	X		
RXR5A/-9.6--9.9/14082015 (200-29296-2MSD)	8/14/15	09:15 Eastern	MSD	Solid							X			
RXR5B/-9.9--10.4/14082015 (200-29296-3)	8/14/15	09:25 Eastern		Solid			X	X	X	X	X	X		
RXR5C/-10.4--10.9/14082015 (200-29296-4)	8/14/15	09:35 Eastern		Solid			X	X	X	X	X	X		
RXR7A/-8.7--9.9/14082015 (200-29296-8)	8/14/15	11:35 Eastern		Solid			X	X	X	X	X	X		
RXR7B/-9.9--10.4/14082015 (200-29296-9)	8/14/15	11:45 Eastern		Solid			X	X	X	X	X	X		
RXR7C/-10.4--10.9/14082015 (200-29296-10)	8/14/15	11:55 Eastern		Solid			X	X	X	X	X	X		
RXR8A/-9.3--9.9/14082015 (200-29296-11)	8/14/15	12:15 Eastern		Solid			X	X	X	X	X	X		
RXR8B/-9.9--10.4/14082015 (200-29296-12)	8/14/15	12:25 Eastern		Solid			X	X	X	X	X	X		

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/24/15 1600	Company TA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 8/25/15 945	Company	Received by:	Date/Time: 8/25/15 945	Company TA Edison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 290029	Cooler Temperature(s) °C and Other Remarks: 1.8/3.8 °C FR#5

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TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22573.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29296-2
Address: 777 New Durham Road,	Due Date Requested: 9/16/2015			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7196A/3060A	6010C/3050B (MOD) Metals TCL List	7471B/7471B_Prep	8151A/8151A_SP (MOD) Standard Herbicide List - 3 empds	9012B/9012B_Prep								Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
RXR8C/-10.4--10.9/14082015 (200-29296-13)	8/14/15	12:35 Eastern		Solid			X	X	X	X	X	X								1	
RXR4A/-6.2--10.9/14082015 (200-29296-14)	8/14/15	14:40 Eastern		Solid			X	X	X	X	X	X								1	
DUP003 (200-29296-17)	8/14/15	Eastern		Solid			X	X	X	X	X	X								1	
DUP005 (200-29296-19)	8/14/15	Eastern		Solid			X	X	X	X	X	X								1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/24/15 1600	Company: TA	Received by:	Date/Time:	Company
Relinquished by: Fed Ex	Date/Time: 8/25/15 945	Company	Received by:	Date/Time: 8/26/15 945	Company TA Edison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.: 290029	Cooler Temperature(s) °C and Other Remarks: 1.8 / 3.8 °C IR#5

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29296-2
SDG Number: 200-29296

Login Number: 29296
List Number: 1
Creator: Sanders, Stephanie D

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6ºC, 1.8ºC, 2.4ºC, 2.6ºC, 3.2ºC, 4.2ºC, 4.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for requested analysis.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29296-2
SDG Number: 200-29296

Login Number: 29296
List Number: 2
Creator: Lysy, Susan

List Source: TestAmerica Edison
List Creation: 08/17/15 11:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4°C IR#5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29296-2
SDG Number: 200-29296

Login Number: 29296
List Number: 4
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 08/25/15 11:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	290029
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29296-2
SDG Number: 200-29296

Login Number: 29296
List Number: 3
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/19/15 09:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29296-2
SDG Number: 200-29296

Login Number: 29296
List Number: 5
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/25/15 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
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Suite 11
South Burlington, VT 05403
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TestAmerica Job ID: 200-29316-2
TestAmerica Sample Delivery Group: 200-29316
Client Project/Site: Glen Isle Waterfront Redevelopment

For:
Posillico Consulting
1750 New Highway
Farmingdale, New York 11735

Attn: Ellis Koch

Authorized for release by:
9/30/2015 3:59:55 PM

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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 200-29316-2

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: Posillico Consulting

Project: Glen Isle Waterfront Redevelopment

Report Number: 200-29316-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/18/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 2.2º C, 2.4º C, 3.2º C, 5.4º C, 5.8º C, 5.8º C, 6.4º C and 6.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260C. The samples were prepared on 08/18/2015 and 08/27/2015 and analyzed on 08/27/2015, 08/28/2015 and 09/08/2015.

Internal standard responses were outside of acceptance limits for the following samples: RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12A/-8.8--9.9/17082015 (200-29316-8[MS]), RXR12A/-8.8--9.9/17082015 (200-29316-8[MSD]), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1A/+1.5--10.9/17082015 (200-29316-17[MS]) and RXR1A/+1.5--10.9/17082015 (200-29316-17[MSD]). The sample(s) shows evidence of matrix interference as confirmed in the associated MS and MSD samples.

Internal standard (ISTD) response for the following samples was outside control limits: RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20). The sample(s) was re-extracted and/or re-analyzed and both sets of data have been reported.

Reanalysis of the following samples was performed outside of the analytical holding time due to internal standard failures in the initial analysis. : RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20).

The continuing calibration verification (CCV) associated with batch 200-93681 recovered above the upper control limit for 1,4-dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

1,2-Dichlorobenzene and Methylene Chloride were detected in method blank MB 200-93241/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,3-Dichlorobenzene, Methylene Chloride, n-Butylbenzene and sec-Butylbenzene were detected in method blank MB 200-93295/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. 1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected in method blank MB 200-93681/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

1,1-Dichloroethene failed the recovery criteria low for LCS 200-93295/4. A CCVL was analyzed at or below the reporting limit and was found to be acceptable. Refer to the QC report for details.

n-Butylbenzene and sec-Butylbenzene failed the recovery criteria low for the MS of sample RXR1A/+1.5--10.9/17082015MS (200-29316-17) in batch 200-93295. Several analytes failed the recovery criteria high. For the MSD of sample RXR1A/+1.5--10.9/17082015MSD (200-29316-17) in batch 200-93295, Trichloroethene failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, n-Butylbenzene, Trichloroethene and Vinyl chloride exceeded the RPD limit. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 200-93295. 1,1-Dichloroethane, 1,4-Dichlorobenzene, Methyl tert-butyl ether and Vinyl chloride failed the recovery criteria high. For the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 200-93295, Several analytes failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, 1,4-Dichlorobenzene and Carbon tetrachloride exceeded the RPD limit. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS

Samples FB001_17082015 (200-29316-1), TB (200-29316-22) and TB2 (200-29316-23) were analyzed for Volatile Organic Compounds in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 08/28/2015.

The continuing calibration verification (CCV) analyzed in batch 200-93314 was outside the method criteria for the following analyte(s): Acetone and Vinyl Acetate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The initial calibration curve analyzed in batch 200-93314 was outside acceptance criteria for trans-1,3-Dichloropropene.

Methylene Chloride was detected in method blank MB 200-93314/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270D. The samples were prepared on 08/26/2015, 08/27/2015 and 08/28/2015 and analyzed on 08/27/2015, 08/28/2015, 08/31/2015, 09/01/2015 and 09/02/2015.

2-Fluorobiphenyl failed the surrogate recovery criteria high for RXR2A/-2.8--10.9/1708215 (200-29316-2). 2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria high for RXR3C/-11.4--11.9/17082015 (200-29316-7). Six surrogates are used for this analysis. The

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. These samples contained an allowable number of surrogate compounds outside limits. These results have been reported and qualified.

The continuing calibration verification (CCV) analyzed in batch 460-319376 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

2-Fluorobiphenyl failed the surrogate recovery criteria high for LCS 460-319090/2-A. 2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria high for LCS 460-319507/2-A. The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 460-319090 had one analyte (Indeno[1,2,3-cd]pyrene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high for the MSD of sample RXR1A/+1.5--10.9/17082015MSD (200-29316-17) in batch 460-319376. 2-Fluorobiphenyl and Nitrobenzene-d5 (Surr) failed the surrogate recovery criteria high for RXR1A/+1.5--10.9/17082015MS (200-29316-17MS). 2-Fluorobiphenyl failed the surrogate recovery criteria high for RXR1A/+1.5--10.9/17082015MSD (200-29316-17MSD). Refer to the QC report for details.

Benzo[b]fluoranthene, Fluoranthene, Phenanthrene and Pyrene failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-319075. Several analytes failed the recovery criteria low for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 460-319075. 2-Fluorobiphenyl failed the surrogate recovery criteria high for RXR12A/-8.8--9.9/17082015MS (200-29316-8MS). Refer to the QC report for details.

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2)[2X], RXR11B/-9.9--10.4/17082015 (200-29316-11)[2X], RXR11C/-10.4--10.9/17082015 (200-29316-12)[2X], RXR10B/-9.9--10.4/17082015 (200-29316-13)[2X], RXR9B/-9.9--10.4/17082015 (200-29316-15)[2X], RXR9C/-10.4--10.9/17082015 (200-29316-16)[2X] and DUP001 (200-29316-20)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample FB001_17082015 (200-29316-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/20/2015 and analyzed on 09/04/2015.

The continuing calibration verification (CCV) analyzed in batch 200-93566 was outside the method criteria for the following analyte(s): 3,3'-Dichlorobenzidine, Di-n-octyl phthalate, Indeno[1,2,3-cd]pyrene, Dibenz(a,h)anthracene and Benzo[g,h,i]perylene A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for organochlorine pesticides in accordance with 8081B. The samples were prepared on 08/28/2015 and analyzed on 08/31/2015 and 09/01/2015.

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

The continuing calibration verification (CCV) associated with batch 320005 recovered above the upper control limit for 4,4'-DDT and Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The closing calibration verification (CCV) associated with batch 320005 recovered above the upper control limit for 4,4'-DDT and Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria high for RXR1A/+1.5--10.9/17082015 (200-29316-17). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

4,4'-DDT and Heptachlor failed the recovery criteria high for LCS 460-319418/2-A. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Refer to the QC report for details.

4,4'-DDT failed the recovery criteria high for the MS of sample RXR1A/+1.5--10.9/17082015MS (200-29316-17) in batch 460-320005. 4,4'-DDT failed the recovery criteria high for the MSD of sample RXR1A/+1.5--10.9/17082015MSD (200-29316-17) in batch 460-320005. Refer to the QC report for details.

4,4'-DDT failed the recovery criteria high for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-320005. 4,4'-DDT and Heptachlor failed the recovery criteria high for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 460-320005. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ORGANOCHLORINE PESTICIDES

Sample FB001_17082015 (200-29316-1) was analyzed for organochlorine pesticides in accordance with EPA SW-846 Method 8081B. The samples were prepared on 08/24/2015 and analyzed on 08/31/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/25/2015 and analyzed on 09/21/2015 and 09/22/2015.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16) and RXR1A/+1.5--10.9/17082015 (200-29316-17). These results have been reported and qualified.'

PCB-1016 and PCB-1260 failed the recovery criteria high for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 200-94212. PCB-1016 and PCB-1260 failed the recovery criteria high for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 200-94212. Refer to the QC report for details.

Samples RXR12A/-8.8--9.9/17082015 (200-29316-8)[5X], RXR12B/-9.9--10.4/17082015 (200-29316-9)[4X], RXR12C/-10.4--10.9/17082015 (200-29316-10)[5X], RXR11B/-9.9--10.4/17082015 (200-29316-11)[4X] and RXR10B/-9.9--10.4/17082015 (200-29316-13)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

POLYCHLORINATED BIPHENYLS (PCBS)

Sample FB001_17082015 (200-29316-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 08/19/2015 and analyzed on 08/20/2015.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: FB001_17082015 (200-29316-1). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/26/2015, 08/27/2015 and 08/28/2015 and analyzed on 09/01/2015, 09/02/2015 and 09/03/2015.

Surrogate recovery for the following samples, MS and MSD was outside control limits: RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12A/-8.8--9.9/17082015 (200-29316-8[MS]), RXR12A/-8.8--9.9/17082015 (200-29316-8[MSD]), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1A/+1.5--10.9/17082015 (200-29316-17[MS]), RXR1A/+1.5--10.9/17082015 (200-29316-17[MSD]) and DUP001 (200-29316-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The closing continuing calibration verification (CCVC) associated with batch 319166 recovered outside the control limit for Silvex (2,4,5-TP) on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Surrogate recovery for the following samples was outside the upper control limit: RXR1B/-10.9--11.4/17082015 (200-29316-18) and RXR1C/-11.4--11.9/17082015 (200-29316-19). These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The closing continuing calibration verification (CCVC) associated with batch 318048 recovered above the upper control limit for Silvex (2,4,5-TP) on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for MB 460-319235/1-A. 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for MB 460-319515/1-A. All associated samples were non detected; therefore, the data have been reported.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for LCS 460-319235/2-A. 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for LCS 460-319515/2-A. All associated samples were non detected; therefore, the data have been reported.

Silvex (2,4,5-TP) failed the recovery criteria high for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-320200. Silvex (2,4,5-TP) failed the recovery criteria high for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 460-320200. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED HERBICIDES

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

Sample FB001_17082015 (200-29316-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 08/20/2015 and analyzed on 08/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/31/2015 and analyzed on 09/02/2015 and 09/03/2015.

Manganese failed the recovery criteria low for the MS of sample RXR1A/+1.5--10.9/17082015MS (200-29316-17) in batch 460-320446. Manganese failed the recovery criteria low for the MSD of sample RXR1A/+1.5--10.9/17082015MSD (200-29316-17) in batch 460-320446. Refer to the QC report for details.

Cadmium, Copper, Lead and Silver failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-320446. Manganese failed the recovery criteria high. Several analytes failed the recovery criteria low for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 460-320446. Manganese failed the recovery criteria high. Refer to the QC report for details.

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2)[4X], RXR3C/-11.4--11.9/17082015 (200-29316-7)[4X], RXR12A/-8.8--9.9/17082015 (200-29316-8)[4X], RXR12B/-9.9--10.4/17082015 (200-29316-9)[4X], RXR12C/-10.4--10.9/17082015 (200-29316-10)[4X], RXR11B/-9.9--10.4/17082015 (200-29316-11)[4X], RXR11C/-10.4--10.9/17082015 (200-29316-12)[4X], RXR10B/-9.9--10.4/17082015 (200-29316-13)[4X], RXR9B/-9.9--10.4/17082015 (200-29316-15)[4X], RXR9C/-10.4--10.9/17082015 (200-29316-16)[4X], RXR1A/+1.5--10.9/17082015 (200-29316-17)[4X], RXR1B/-10.9--11.4/17082015 (200-29316-18)[4X], RXR1C/-11.4--11.9/17082015 (200-29316-19)[4X] and DUP001 (200-29316-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Sample FB001_17082015 (200-29316-1) was analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/21/2015 and analyzed on 08/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Sample FB001_17082015 (200-29316-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 08/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample FB001_17082015 (200-29316-1) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MERCURY

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17),

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 09/10/2015 and 09/12/2015.

Mercury failed the recovery criteria low for the MS of sample RXR1A/+1.5--10.9/17082015MS (200-29316-17) in batch 460-321698.
Mercury failed the recovery criteria low for the MSD of sample RXR1A/+1.5--10.9/17082015MSD (200-29316-17) in batch 460-321698.
Refer to the QC report for details.

Mercury failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-321698. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HEXAVALENT CHROMIUM

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 3060A/7196A. The samples were prepared and analyzed on 09/15/2015 and 09/16/2015.

Chromium (hexavalent) and Chromium (hexavalent) failed the recovery criteria low for the MS of sample RXR1A/+1.5--10.9/17082015MS (200-29316-17) in batch 460-322887. Refer to the QC report for details.

Chromium (hexavalent) and Chromium (hexavalent) failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-322572. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 09/16/2015 and 09/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TRIVALENT CHROMIUM

Sample FB001_17082015 (200-29316-1) was analyzed for trivalent chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 08/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/27/2015.

Cyanide, Total failed the recovery criteria low for the MS of sample RXR12A/-8.8--9.9/17082015MS (200-29316-8) in batch 460-319478.

Job ID: 200-29316-2 (Continued)

Laboratory: TestAmerica Burlington (Continued)

Cyanide, Total failed the recovery criteria low for the MSD of sample RXR12A/-8.8--9.9/17082015MSD (200-29316-8) in batch 460-319478. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample FB001_17082015 (200-29316-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The samples were prepared and analyzed on 08/27/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 08/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 AND OTHER GAMMA EMITTERS

Samples RXR2A/-2.8--10.9/1708215 (200-29316-2), RXR3C/-11.4--11.9/17082015 (200-29316-7), RXR12A/-8.8--9.9/17082015 (200-29316-8), RXR12B/-9.9--10.4/17082015 (200-29316-9), RXR12C/-10.4--10.9/17082015 (200-29316-10), RXR11B/-9.9--10.4/17082015 (200-29316-11), RXR11C/-10.4--10.9/17082015 (200-29316-12), RXR10B/-9.9--10.4/17082015 (200-29316-13), RXR9B/-9.9--10.4/17082015 (200-29316-15), RXR9C/-10.4--10.9/17082015 (200-29316-16), RXR1A/+1.5--10.9/17082015 (200-29316-17), RXR1B/-10.9--11.4/17082015 (200-29316-18), RXR1C/-11.4--11.9/17082015 (200-29316-19) and DUP001 (200-29316-20) were analyzed for Radium-226 and Other Gamma Emitters in accordance with 901.1. The samples were leached on 08/25/2015, prepared on 08/27/2015 and analyzed on 09/17/2015.

Insufficient samples were provided for the following sample to fill a tuna can calibrated for Ra-226 analysis by gamma spectroscopy: RXR3C/-11.4--11.9/17082015 (200-29316-7) and RXR11B/-9.9--10.4/17082015 (200-29316-11). The use of a different geometry could potentially bias the results low due to the loss of radon into the headspace of the contai

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: FB001_17082015 — Lab Sample ID: 200-29316-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1		5.0	1.7	ug/L	1		8260C	Total/NA
Methylene Chloride	4.0	B	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: RXR2A/-2.8--10.9/1708215 — Lab Sample ID: 200-29316-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		4.4	3.6	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	0.28	J	4.4	0.098	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	3.8	J	4.4	2.0	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.8	J	4.4	0.17	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.47	J	4.4	0.26	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.41	J	4.4	0.060	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.1	J	4.4	0.34	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.1	J	8.9	0.047	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.54	J	4.4	0.11	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	24	J	750	19	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	54	J	750	20	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	110	J	750	22	ug/Kg	2	☼	8270D	Total/NA
Pyrene	240	J	750	34	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	110		75	63	ug/Kg	2	☼	8270D	Total/NA
Chrysene	110	J	750	20	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	210		75	29	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	71	J	75	33	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	160		75	23	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140		75	50	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	44	J	75	39	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	750	43	ug/Kg	2	☼	8270D	Total/NA
PCB-1254	8.6	J p	20	3.0	ug/Kg	1	☼	8082A	Total/NA
Silver	12.8		2.2	0.38	mg/Kg	4	☼	6010C	Total/NA
Arsenic	7.1		3.3	1.1	mg/Kg	4	☼	6010C	Total/NA
Barium	18.6	J	43.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.4		0.87	0.45	mg/Kg	4	☼	6010C	Total/NA
Chromium	16.7		2.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Copper	92.5		5.4	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	139		3.3	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	9.0		8.7	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	57.0		2.2	0.85	mg/Kg	4	☼	6010C	Total/NA
Zinc	87.1		6.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.23		0.018	0.013	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	16.7		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: RXR3C/-11.4--11.9/17082015 — Lab Sample ID: 200-29316-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25		4.8	3.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.7	J	4.8	0.18	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.31	J	4.8	0.28	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.85	J	4.8	0.37	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.37	J	4.8	0.051	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.2	J	9.6	0.051	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR3C/-11.4--11.9/17082015 (Continued) — Lab Sample ID: 200-29316-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	16	J	390	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	48	J	390	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	97	J	390	18	ug/Kg	1	☼	8270D	Total/NA
Chrysene	31	J	390	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	50		39	15	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	17	J	39	17	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	43		39	12	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	35	J *	39	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	32	J	390	23	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	36		21	3.1	ug/Kg	1	☼	8082A	Total/NA
Silver	7.0		2.1	0.38	mg/Kg	4	☼	6010C	Total/NA
Arsenic	13.8		3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Barium	10.6	J	42.7	1.5	mg/Kg	4	☼	6010C	Total/NA
Cadmium	1.2		0.85	0.45	mg/Kg	4	☼	6010C	Total/NA
Chromium	11.0		2.1	1.0	mg/Kg	4	☼	6010C	Total/NA
Copper	44.5		5.3	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	37.7		3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	5.3	J	8.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	45.1		2.1	0.84	mg/Kg	4	☼	6010C	Total/NA
Zinc	66.2		6.4	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.14		0.019	0.014	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	11.0		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.027	J	0.11	0.018	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR12A/-8.8--9.9/17082015 — Lab Sample ID: 200-29316-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	470	F1	9.2	7.5	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	3.0	J F1	9.2	0.62	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	180		9.2	4.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.2	J	9.2	0.79	ug/Kg	1	☼	8260C	Total/NA
Toluene	5.4	J	9.2	0.35	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.1	J F1	9.2	0.53	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.98	J F1	9.2	0.12	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	2.4	J F1	9.2	0.70	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.4	J F1	18	0.097	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	37	J	570	15	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	120	J	570	15	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	99	J	570	13	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	58	J	570	15	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	230	J	570	14	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	170	J	570	17	ug/Kg	1	☼	8270D	Total/NA
Fluorene	370	J	570	12	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3300	F1	570	15	ug/Kg	1	☼	8270D	Total/NA
Anthracene	830		570	54	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	4700	F1	570	17	ug/Kg	1	☼	8270D	Total/NA
Pyrene	3200	F1	570	26	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1900	F1	57	48	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2200	F1	570	16	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2400	F1	57	22	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR12A/-8.8--9.9/17082015 (Continued) — Lab Sample ID: 200-29316-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	930		57	25	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1900		57	17	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		57	38	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	400		57	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		570	33	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	630	p	150	22	ug/Kg	5	☼	8082A	Total/NA
Silver	247		3.3	0.58	mg/Kg	4	☼	6010C	Total/NA
Arsenic	41.5		4.9	1.6	mg/Kg	4	☼	6010C	Total/NA
Barium	69.8		65.6	2.3	mg/Kg	4	☼	6010C	Total/NA
Beryllium	0.60	J	0.66	0.56	mg/Kg	4	☼	6010C	Total/NA
Cadmium	42.8		1.3	0.68	mg/Kg	4	☼	6010C	Total/NA
Chromium	54.9		3.3	1.6	mg/Kg	4	☼	6010C	Total/NA
Copper	401		8.2	2.1	mg/Kg	4	☼	6010C	Total/NA
Manganese	390		4.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Nickel	30.0		13.1	2.4	mg/Kg	4	☼	6010C	Total/NA
Lead	351		3.3	1.3	mg/Kg	4	☼	6010C	Total/NA
Selenium	5.6	J	6.6	2.3	mg/Kg	4	☼	6010C	Total/NA
Zinc	280	F1	9.8	2.4	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.32	F1	0.028	0.020	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	54.9		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.33	F1	0.17	0.028	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR12B/-9.9--10.4/17082015 — Lab Sample ID: 200-29316-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130	*	4.5	3.7	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	45	*	4.5	2.0	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J *	4.5	0.17	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	150	H	7.1	5.8	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene - RE	6.4	J H B *	7.1	0.16	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	59	H	7.1	3.1	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.5	J H	7.1	0.27	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	1.2	J H	7.1	0.54	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	0.96	J H	7.1	0.076	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	2.2	J H	14	0.076	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	9.2	H *	7.1	0.54	ug/Kg	1	☼	8260C	Total/NA
Phenol	18	J	410	13	ug/Kg	1	☼	8270D	Total/NA
3 & 4 Methylphenol	72	J	410	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	230	J	410	10	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	150	J	410	9.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	78	J	410	11	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	290	J	410	10	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	170	J	410	12	ug/Kg	1	☼	8270D	Total/NA
Fluorene	310	J	410	9.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	3700		410	11	ug/Kg	1	☼	8270D	Total/NA
Anthracene	870		410	39	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	5400		410	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	4500		410	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2400		41	34	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2800		410	11	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR12B/-9.9--10.4/17082015 (Continued) — Lab Sample ID: 200-29316-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	2600		41	16	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	880		41	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2200		41	12	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1700		41	27	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	400		41	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1600		410	24	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	430	p	82	6.7	ug/Kg	4	☼	8082A	Total/NA
PCB-1254	490		82	12	ug/Kg	4	☼	8082A	Total/NA
Silver	137		2.3	0.41	mg/Kg	4	☼	6010C	Total/NA
Arsenic	20.1		3.5	1.1	mg/Kg	4	☼	6010C	Total/NA
Barium	42.0	J	46.3	1.7	mg/Kg	4	☼	6010C	Total/NA
Cadmium	20.6		0.93	0.48	mg/Kg	4	☼	6010C	Total/NA
Chromium	35.8		2.3	1.1	mg/Kg	4	☼	6010C	Total/NA
Copper	231		5.8	1.5	mg/Kg	4	☼	6010C	Total/NA
Manganese	174		3.5	1.2	mg/Kg	4	☼	6010C	Total/NA
Nickel	20.7		9.3	1.7	mg/Kg	4	☼	6010C	Total/NA
Lead	217		2.3	0.91	mg/Kg	4	☼	6010C	Total/NA
Selenium	4.0	J	4.6	1.6	mg/Kg	4	☼	6010C	Total/NA
Zinc	180		6.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.45		0.021	0.015	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	35.8		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.14		0.13	0.021	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR12C/-10.4--10.9/17082015 — Lab Sample ID: 200-29316-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		4.7	3.8	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	6.3	*	4.7	0.10	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	29		4.7	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.46	J	4.7	0.40	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.1	J	4.7	0.18	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	1.3	J	4.7	0.10	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.3	J	4.7	0.35	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.90	J	4.7	0.049	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.2	J	9.3	0.049	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	9.6	*	4.7	0.35	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	450	H *	4.7	3.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.9	J H *	4.7	0.53	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene - RE	14	H B *	4.7	0.10	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	150	H *	4.7	2.1	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	0.50	J H *	4.7	0.40	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	4.2	J H *	4.7	0.18	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	1.5	J H *	4.7	0.27	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene - RE	2.4	J H *	4.7	0.10	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	1.0	J H *	4.7	0.064	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	2.1	J H *	4.7	0.36	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	1.8	J H *	4.7	0.050	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	3.9	J H *	9.4	0.050	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	22	H *	4.7	0.36	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	77	J	510	14	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR12C/-10.4--10.9/17082015 (Continued) — Lab Sample ID: 200-29316-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	230	J	510	13	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	170	J	510	11	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	98	J	510	13	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	330	J	510	12	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	170	J	510	15	ug/Kg	1	☼	8270D	Total/NA
Fluorene	370	J	510	11	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	4500		510	14	ug/Kg	1	☼	8270D	Total/NA
Anthracene	1100		510	48	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	6000		510	15	ug/Kg	1	☼	8270D	Total/NA
Pyrene	5400		510	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2700		51	43	ug/Kg	1	☼	8270D	Total/NA
Chrysene	3200		510	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2700		51	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1100		51	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2500		51	15	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		51	34	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	420		51	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1700		510	29	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	790	p	130	11	ug/Kg	5	☼	8082A	Total/NA
PCB-1254	900		130	19	ug/Kg	5	☼	8082A	Total/NA
Silver	205		2.9	0.51	mg/Kg	4	☼	6010C	Total/NA
Arsenic	25.9		4.3	1.4	mg/Kg	4	☼	6010C	Total/NA
Barium	57.6	J	57.8	2.1	mg/Kg	4	☼	6010C	Total/NA
Cadmium	32.9		1.2	0.60	mg/Kg	4	☼	6010C	Total/NA
Chromium	45.0		2.9	1.4	mg/Kg	4	☼	6010C	Total/NA
Copper	316		7.2	1.9	mg/Kg	4	☼	6010C	Total/NA
Manganese	243		4.3	1.5	mg/Kg	4	☼	6010C	Total/NA
Nickel	25.8		11.6	2.1	mg/Kg	4	☼	6010C	Total/NA
Lead	297		2.9	1.1	mg/Kg	4	☼	6010C	Total/NA
Selenium	4.1	J	5.8	2.0	mg/Kg	4	☼	6010C	Total/NA
Zinc	203		8.7	2.1	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.69		0.025	0.018	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	45.0		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.094	J	0.14	0.023	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR11B/-9.9--10.4/17082015 — Lab Sample ID: 200-29316-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	230		8.5	6.9	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	91		8.5	3.7	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.0	J *	8.5	0.32	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	62	H	6.7	5.5	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	26	H	6.7	3.0	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.1	J H	6.7	0.26	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	1.0	J H	6.7	0.51	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	0.59	J H	6.7	0.071	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	1.6	J H	13	0.071	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	5.5	J H *	6.7	0.51	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	77	J	1000	27	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	160	J	1000	26	ug/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR11B/-9.9--10.4/17082015 (Continued) — Lab Sample ID: 200-29316-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	71	J	1000	23	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	60	J	1000	26	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	110	J	1000	25	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	84	J	1000	31	ug/Kg	2	☼	8270D	Total/NA
Fluorene	120	J	1000	22	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	1100		1000	27	ug/Kg	2	☼	8270D	Total/NA
Anthracene	380	J	1000	98	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	3500		1000	30	ug/Kg	2	☼	8270D	Total/NA
Pyrene	4900		1000	47	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	1800		100	86	ug/Kg	2	☼	8270D	Total/NA
Chrysene	2300		1000	28	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	2800		100	40	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	1100		100	45	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	1900		100	31	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2100		100	68	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	480		100	53	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1900		1000	59	ug/Kg	2	☼	8270D	Total/NA
PCB-1242	600	E p	110	9.0	ug/Kg	4	☼	8082A	Total/NA
PCB-1254	680		110	16	ug/Kg	4	☼	8082A	Total/NA
Silver	59.7		3.0	0.52	mg/Kg	4	☼	6010C	Total/NA
Arsenic	19.4		4.5	1.5	mg/Kg	4	☼	6010C	Total/NA
Barium	43.6	J	59.5	2.1	mg/Kg	4	☼	6010C	Total/NA
Beryllium	1.1		0.59	0.50	mg/Kg	4	☼	6010C	Total/NA
Cadmium	11.2		1.2	0.62	mg/Kg	4	☼	6010C	Total/NA
Chromium	40.7		3.0	1.4	mg/Kg	4	☼	6010C	Total/NA
Copper	837		7.4	1.9	mg/Kg	4	☼	6010C	Total/NA
Manganese	224		4.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Nickel	41.1		11.9	2.2	mg/Kg	4	☼	6010C	Total/NA
Lead	241		3.0	1.2	mg/Kg	4	☼	6010C	Total/NA
Selenium	2.6	J	5.9	2.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	286		8.9	2.2	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.48		0.026	0.018	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	40.7		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.10	J	0.14	0.023	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR11C/-10.4--10.9/17082015 — Lab Sample ID: 200-29316-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	96		5.2	4.3	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	41		5.2	2.3	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.3	J *	5.2	0.20	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	78	H	4.6	3.8	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	33	H	4.6	2.0	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	0.42	J H	4.6	0.40	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	1.3	J H	4.6	0.18	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	0.36	J H	4.6	0.27	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	0.43	J H	4.6	0.049	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	0.43	J H	9.3	0.049	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene - RE	0.62	J H * B	4.6	0.12	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	51	J	780	21	ug/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR11C/-10.4--10.9/17082015 (Continued) — Lab Sample ID: 200-29316-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	85	J	780	20	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	36	J	780	17	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	23	J	780	20	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	78	J	780	19	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	64	J	780	24	ug/Kg	2	☼	8270D	Total/NA
Fluorene	97	J	780	17	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	740	J	780	21	ug/Kg	2	☼	8270D	Total/NA
Anthracene	200	J	780	74	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	1600		780	23	ug/Kg	2	☼	8270D	Total/NA
Pyrene	2500		780	35	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	980		78	65	ug/Kg	2	☼	8270D	Total/NA
Chrysene	1100		780	21	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400		78	30	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	540		78	34	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	960		78	24	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	980		78	52	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	240		78	41	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	880		780	45	ug/Kg	2	☼	8270D	Total/NA
PCB-1254	53	p	21	3.1	ug/Kg	1	☼	8082A	Total/NA
Silver	13.3		2.2	0.39	mg/Kg	4	☼	6010C	Total/NA
Arsenic	7.3		3.3	1.1	mg/Kg	4	☼	6010C	Total/NA
Barium	14.8	J	44.4	1.6	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.5		0.89	0.46	mg/Kg	4	☼	6010C	Total/NA
Chromium	13.4		2.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Copper	84.4		5.6	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	102		3.3	1.2	mg/Kg	4	☼	6010C	Total/NA
Nickel	13.5		8.9	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	77.2		2.2	0.87	mg/Kg	4	☼	6010C	Total/NA
Zinc	92.1		6.7	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.18		0.020	0.014	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	13.4		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.10	J	0.11	0.018	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR10B/-9.9--10.4/17082015 — Lab Sample ID: 200-29316-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	81		5.2	4.3	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	33		5.2	2.3	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.46	J	5.2	0.20	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	3500	H E *	5.9	4.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.3	J H *	5.9	0.66	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	1500	H E *	5.9	2.6	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.5	J H *	5.9	0.22	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	0.61	J H *	5.9	0.34	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	1.5	J H *	5.9	0.45	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	1.5	J H *	12	0.062	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	46	J	930	24	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	25	J	930	20	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	28	J	930	24	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	39	J	930	22	ug/Kg	2	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR10B/-9.9--10.4/17082015 (Continued) — Lab Sample ID: 200-29316-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	32	J	930	28	ug/Kg	2	☼	8270D	Total/NA
Fluorene	46	J	930	20	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	540	J	930	25	ug/Kg	2	☼	8270D	Total/NA
Anthracene	130	J	930	88	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	1100		930	27	ug/Kg	2	☼	8270D	Total/NA
Pyrene	1700		930	42	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	760		93	77	ug/Kg	2	☼	8270D	Total/NA
Chrysene	980		930	25	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	1400		93	36	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	550		93	40	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	910		93	28	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	990		93	62	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	240		93	48	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	840	J	930	53	ug/Kg	2	☼	8270D	Total/NA
PCB-1242	500	p	49	4.0	ug/Kg	2	☼	8082A	Total/NA
PCB-1254	510		49	7.2	ug/Kg	2	☼	8082A	Total/NA
Silver	9.5		2.7	0.48	mg/Kg	4	☼	6010C	Total/NA
Arsenic	15.4		4.1	1.3	mg/Kg	4	☼	6010C	Total/NA
Barium	25.1	J	54.2	1.9	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.2		1.1	0.57	mg/Kg	4	☼	6010C	Total/NA
Chromium	24.6		2.7	1.3	mg/Kg	4	☼	6010C	Total/NA
Copper	122		6.8	1.8	mg/Kg	4	☼	6010C	Total/NA
Manganese	154		4.1	1.4	mg/Kg	4	☼	6010C	Total/NA
Nickel	23.5		10.8	2.0	mg/Kg	4	☼	6010C	Total/NA
Lead	97.8		2.7	1.1	mg/Kg	4	☼	6010C	Total/NA
Selenium	2.0	J	5.4	1.9	mg/Kg	4	☼	6010C	Total/NA
Zinc	179		8.1	2.0	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.28		0.024	0.017	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	24.6		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.29		0.14	0.023	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR9B/-9.9--10.4/17082015 — Lab Sample ID: 200-29316-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	57		5.8	4.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.83	J B	5.8	0.65	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	24		5.8	2.6	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J	5.8	0.22	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.52	J	5.8	0.34	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.69	J	5.8	0.079	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.72	J	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	1.1	J	5.8	0.062	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.8	J	12	0.062	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	0.37	J *	5.8	0.26	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	0.24	J *	5.8	0.13	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	0.98	J *	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	300	H *	6.3	5.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.9	J H *	6.3	0.70	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	120	H *	6.3	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	1.1	J H *	6.3	0.54	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR9B/-9.9--10.4/17082015 (Continued) — Lab Sample ID: 200-29316-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene - RE	3.8	J H *	6.3	0.24	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene - RE	0.69	J H *	6.3	0.36	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	0.93	J H *	6.3	0.085	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	2.2	J H *	6.3	0.48	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	2.2	J H *	6.3	0.066	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	4.4	J H *	13	0.066	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	2.2	J H *	6.3	0.28	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	4.4	J H *	6.3	0.15	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	35	J	940	25	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	94	J	940	24	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	37	J	940	21	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	37	J	940	24	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	140	J	940	23	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	57	J	940	28	ug/Kg	2	☼	8270D	Total/NA
Fluorene	130	J	940	20	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	1000		940	25	ug/Kg	2	☼	8270D	Total/NA
Anthracene	300	J	940	89	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	2200		940	28	ug/Kg	2	☼	8270D	Total/NA
Pyrene	2600		940	43	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	1200		94	78	ug/Kg	2	☼	8270D	Total/NA
Chrysene	1500		940	26	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	1900		94	37	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	600		94	41	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	1200		94	28	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100		94	62	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	300		94	49	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	960		940	54	ug/Kg	2	☼	8270D	Total/NA
PCB-1254	120	p	25	3.7	ug/Kg	1	☼	8082A	Total/NA
Silver	6.2		2.8	0.49	mg/Kg	4	☼	6010C	Total/NA
Arsenic	5.4		4.2	1.4	mg/Kg	4	☼	6010C	Total/NA
Barium	10.6	J	55.7	2.0	mg/Kg	4	☼	6010C	Total/NA
Cadmium	1.1		1.1	0.58	mg/Kg	4	☼	6010C	Total/NA
Chromium	18.0		2.8	1.3	mg/Kg	4	☼	6010C	Total/NA
Copper	52.0		7.0	1.8	mg/Kg	4	☼	6010C	Total/NA
Manganese	362		4.2	1.5	mg/Kg	4	☼	6010C	Total/NA
Nickel	11.1		11.1	2.0	mg/Kg	4	☼	6010C	Total/NA
Lead	40.4		2.8	1.1	mg/Kg	4	☼	6010C	Total/NA
Zinc	58.5		8.4	2.0	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.24		0.024	0.017	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	18.0		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: RXR9C/-10.4--10.9/17082015 — Lab Sample ID: 200-29316-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		9.1	7.5	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	49		9.1	4.0	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	9.1	0.78	ug/Kg	1	☼	8260C	Total/NA
Toluene	4.9	J	9.1	0.35	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	1.5	J	9.1	0.12	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	2.4	J	9.1	0.69	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR9C/-10.4--10.9/17082015 (Continued) — Lab Sample ID: 200-29316-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	3.1	J	9.1	0.097	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	5.5	J	18	0.097	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	1.3	J *	9.1	0.57	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1.9	J *	9.1	0.40	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	6.2	J *	9.1	0.22	ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	0.76	J *	9.1	0.20	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	2.9	J *	9.1	0.69	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	510	H *	8.3	6.8	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene - RE	2.4	J H B *	8.3	0.18	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	210	H *	8.3	3.7	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	1.2	J H	8.3	0.72	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	5.9	J H *	8.3	0.32	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	1.8	J H *	8.3	0.11	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	2.5	J H *	8.3	0.63	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	2.5	J H *	17	0.088	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	2.0	J H *	8.3	0.37	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	9.3	H *	8.3	0.20	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	4.1	J H *	8.3	0.63	ug/Kg	1	☼	8260C	Total/NA
3 & 4 Methylphenol	140	J	960	26	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	370	J	960	24	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	120	J	960	21	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	140	J	960	25	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	270	J	960	23	ug/Kg	2	☼	8270D	Total/NA
Dibenzofuran	170	J	960	29	ug/Kg	2	☼	8270D	Total/NA
Fluorene	260	J	960	21	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	1900		960	26	ug/Kg	2	☼	8270D	Total/NA
Anthracene	850	J	960	91	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	5500		960	29	ug/Kg	2	☼	8270D	Total/NA
Pyrene	5600		960	44	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	2900		96	80	ug/Kg	2	☼	8270D	Total/NA
Chrysene	3600		960	26	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	4300		96	38	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	1600		96	42	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	2900		96	29	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2400		96	64	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	640		96	50	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2100		960	55	ug/Kg	2	☼	8270D	Total/NA
PCB-1254	180	p	26	3.9	ug/Kg	1	☼	8082A	Total/NA
Silver	37.8		2.5	0.45	mg/Kg	4	☼	6010C	Total/NA
Arsenic	15.9		3.8	1.3	mg/Kg	4	☼	6010C	Total/NA
Barium	49.5	J	50.9	1.8	mg/Kg	4	☼	6010C	Total/NA
Beryllium	0.57		0.51	0.43	mg/Kg	4	☼	6010C	Total/NA
Cadmium	7.3		1.0	0.53	mg/Kg	4	☼	6010C	Total/NA
Chromium	44.6		2.5	1.2	mg/Kg	4	☼	6010C	Total/NA
Copper	308		6.4	1.7	mg/Kg	4	☼	6010C	Total/NA
Manganese	166		3.8	1.3	mg/Kg	4	☼	6010C	Total/NA
Nickel	61.5		10.2	1.9	mg/Kg	4	☼	6010C	Total/NA
Lead	294		2.5	1.0	mg/Kg	4	☼	6010C	Total/NA
Selenium	2.5	J	5.1	1.8	mg/Kg	4	☼	6010C	Total/NA
Zinc	360		7.6	1.9	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR9C/-10.4--10.9/17082015 (Continued) — Lab Sample ID: 200-29316-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.48		0.024	0.017	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	44.6		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	10.1		0.15	0.023	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR1A/+1.5--10.9/17082015 — Lab Sample ID: 200-29316-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	65		5.3	4.4	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	16		5.3	2.4	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.53	J *	5.3	0.073	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.6	J *	5.3	0.41	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.45	J * F1	5.3	0.057	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.1	J *	11	0.057	ug/Kg	1	☼	8260C	Total/NA
Phenanthrene	25	J	420	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	42	J	420	12	ug/Kg	1	☼	8270D	Total/NA
Pyrene	67	J	420	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	48		42	16	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	24	J	42	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	35	J	42	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	36	J F1	420	24	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	10	J	23	3.4	ug/Kg	1	☼	8082A	Total/NA
Silver	1.9	J	2.4	0.42	mg/Kg	4	☼	6010C	Total/NA
Arsenic	4.1		3.6	1.2	mg/Kg	4	☼	6010C	Total/NA
Barium	84.1		47.9	1.7	mg/Kg	4	☼	6010C	Total/NA
Chromium	30.3		2.4	1.2	mg/Kg	4	☼	6010C	Total/NA
Copper	33.0		6.0	1.6	mg/Kg	4	☼	6010C	Total/NA
Manganese	111	F1	3.6	1.3	mg/Kg	4	☼	6010C	Total/NA
Nickel	13.1		9.6	1.7	mg/Kg	4	☼	6010C	Total/NA
Lead	19.5		2.4	0.94	mg/Kg	4	☼	6010C	Total/NA
Zinc	40.2		7.2	1.7	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.21	F1	0.021	0.015	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	30.3		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.022	J	0.13	0.020	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: RXR1B/-10.9--11.4/17082015 — Lab Sample ID: 200-29316-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9		4.3	3.5	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	1.9	J	4.3	1.9	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	4.3	0.16	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.24	J	4.3	0.059	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.86	J	4.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.86	J	8.6	0.046	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.36	J	4.3	0.10	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]pyrene	20	J	36	11	ug/Kg	1	☼	8270D	Total/NA
PCB-1254	9.2	J	17	2.6	ug/Kg	1	☼	8082A	Total/NA
Silver	3.2		2.1	0.36	mg/Kg	4	☼	6010C	Total/NA
Arsenic	3.0	J	3.1	1.0	mg/Kg	4	☼	6010C	Total/NA
Barium	117		41.1	1.5	mg/Kg	4	☼	6010C	Total/NA
Chromium	29.4		2.1	0.99	mg/Kg	4	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RXR1B/-10.9--11.4/17082015 (Continued) — Lab Sample ID: 200-29316-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	36.3		5.1	1.3	mg/Kg	4	☼	6010C	Total/NA
Manganese	92.6		3.1	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	12.9		8.2	1.5	mg/Kg	4	☼	6010C	Total/NA
Lead	18.1		2.1	0.81	mg/Kg	4	☼	6010C	Total/NA
Zinc	35.3		6.2	1.5	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.058		0.018	0.013	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	29.4		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: RXR1C/-11.4--11.9/17082015 — Lab Sample ID: 200-29316-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		3.0	2.5	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.7	J *	3.0	0.12	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.35	J *	3.0	0.041	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.74	J *	3.0	0.073	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	14	H	5.0	4.1	ug/Kg	1	☼	8260C	Total/NA
Benzene - RE	0.49	J H	5.0	0.43	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	2.9	J H	5.0	0.19	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	0.62	J H	5.0	0.067	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	1.9	J H	5.0	0.38	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	0.73	J H	5.0	0.052	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	2.6	J H	9.9	0.052	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	0.23	J H	5.0	0.22	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	0.55	J H	5.0	0.12	ug/Kg	1	☼	8260C	Total/NA
PCB-1254	5.3	J	18	2.7	ug/Kg	1	☼	8082A	Total/NA
Silver	1.8	J	2.1	0.38	mg/Kg	4	☼	6010C	Total/NA
Arsenic	2.2	J	3.2	1.0	mg/Kg	4	☼	6010C	Total/NA
Barium	19.3	J	42.7	1.5	mg/Kg	4	☼	6010C	Total/NA
Chromium	10.9		2.1	1.0	mg/Kg	4	☼	6010C	Total/NA
Copper	26.2		5.3	1.4	mg/Kg	4	☼	6010C	Total/NA
Manganese	43.3		3.2	1.1	mg/Kg	4	☼	6010C	Total/NA
Nickel	6.4	J	8.5	1.6	mg/Kg	4	☼	6010C	Total/NA
Lead	11.5		2.1	0.84	mg/Kg	4	☼	6010C	Total/NA
Zinc	22.8		6.4	1.6	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.042		0.018	0.013	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	10.9		2.0	2.0	mg/Kg	1		7196A	Total/NA

Client Sample ID: DUP001 — Lab Sample ID: 200-29316-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24		4.9	4.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.95	J B	4.9	0.55	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene	0.42	J * B	4.9	0.11	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	7.1		4.9	2.2	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.3	J *	4.9	0.19	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.51	J *	4.9	0.067	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	1.9	J *	4.9	0.37	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	0.45	J *	4.9	0.052	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	2.4	J *	9.8	0.052	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1.4	J *	4.9	0.12	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: DUP001 (Continued)

Lab Sample ID: 200-29316-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.1	J *	4.9	0.37	ug/Kg	1	☼	8260C	Total/NA
Acetone - RE	17	H	5.4	4.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RE	1.3	J H	5.4	0.61	ug/Kg	1	☼	8260C	Total/NA
1,3-Dichlorobenzene - RE	0.37	J H B	5.4	0.12	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK) - RE	5.1	J H	5.4	2.4	ug/Kg	1	☼	8260C	Total/NA
Toluene - RE	1.6	J H	5.4	0.21	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene - RE	0.56	J H	5.4	0.074	ug/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene - RE	1.2	J H	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
o-Xylene - RE	0.52	J H	5.4	0.058	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total - RE	1.7	J H	11	0.058	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene - RE	0.28	J H	5.4	0.24	ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene - RE	0.69	J H	5.4	0.13	ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene - RE	0.82	J H	5.4	0.41	ug/Kg	1	☼	8260C	Total/NA
Naphthalene	35	J	910	23	ug/Kg	2	☼	8270D	Total/NA
2-Methylnaphthalene	25	J	910	20	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	87	J	910	24	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	140	J	910	27	ug/Kg	2	☼	8270D	Total/NA
Pyrene	380	J	910	41	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	130		91	76	ug/Kg	2	☼	8270D	Total/NA
Chrysene	160	J	910	25	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	280		91	36	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	94		91	40	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	220		91	28	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	180		91	61	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	60	J	91	47	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	910	52	ug/Kg	2	☼	8270D	Total/NA
PCB-1254	56		23	3.4	ug/Kg	1	☼	8082A	Total/NA
Silver	12.6		2.5	0.43	mg/Kg	4	☼	6010C	Total/NA
Arsenic	8.4		3.7	1.2	mg/Kg	4	☼	6010C	Total/NA
Barium	21.2	J	49.1	1.8	mg/Kg	4	☼	6010C	Total/NA
Cadmium	2.4		0.98	0.51	mg/Kg	4	☼	6010C	Total/NA
Chromium	26.6		2.5	1.2	mg/Kg	4	☼	6010C	Total/NA
Copper	94.8		6.1	1.6	mg/Kg	4	☼	6010C	Total/NA
Manganese	194		3.7	1.3	mg/Kg	4	☼	6010C	Total/NA
Nickel	10.7		9.8	1.8	mg/Kg	4	☼	6010C	Total/NA
Lead	65.1		2.5	0.96	mg/Kg	4	☼	6010C	Total/NA
Zinc	109		7.4	1.8	mg/Kg	4	☼	6010C	Total/NA
Mercury	0.20		0.022	0.016	mg/Kg	1	☼	7471B	Total/NA
Cr (III)	26.6		2.0	2.0	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.023	J	0.14	0.022	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: TB

Lab Sample ID: 200-29316-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.7	ug/L	1		8260C	Total/NA
Methylene Chloride	0.31	J B	1.0	0.23	ug/L	1		8260C	Total/NA

Client Sample ID: TB2

Lab Sample ID: 200-29316-23

This Detection Summary does not include radiochemical test results.

Client Sample ID: TB2 (Continued)

Lab Sample ID: 200-29316-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.7	ug/L	1		8260C	Total/NA
Methylene Chloride	0.39	J B	1.0	0.23	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB001_17082015

Date Collected: 08/17/15 06:45
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/28/15 12:38	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/28/15 12:38	1
Acetone	**5.1**		5.0	1.7	ug/L			08/28/15 12:38	1
Methylene Chloride	**4.0**	**B**	1.0	0.23	ug/L			08/28/15 12:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/28/15 12:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/28/15 12:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/28/15 12:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 12:38	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/28/15 12:38	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/28/15 12:38	1
Benzene	1.0	U	1.0	0.19	ug/L			08/28/15 12:38	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/28/15 12:38	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/28/15 12:38	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/28/15 12:38	1
Toluene	1.0	U	1.0	0.22	ug/L			08/28/15 12:38	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 12:38	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/28/15 12:38	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/28/15 12:38	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/28/15 12:38	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/28/15 12:38	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/28/15 12:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/28/15 12:38	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 12:38	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 12:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/28/15 12:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/28/15 12:38	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/28/15 12:38*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*08/28/15 12:38*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/28/15 12:38*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*08/28/15 12:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	1.5	ug/L		08/20/15 10:33	09/04/15 13:08	1
2-Methylphenol	10	U	10	1.8	ug/L		08/20/15 10:33	09/04/15 13:08	1
3 & 4 Methylphenol	10	U	10	1.0	ug/L		08/20/15 10:33	09/04/15 13:08	1
Naphthalene	10	U	10	1.3	ug/L		08/20/15 10:33	09/04/15 13:08	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/20/15 10:33	09/04/15 13:08	1
2-Chloronaphthalene	10	U	10	1.3	ug/L		08/20/15 10:33	09/04/15 13:08	1
Acenaphthylene	10	U	10	0.94	ug/L		08/20/15 10:33	09/04/15 13:08	1
Acenaphthene	10	U	10	0.94	ug/L		08/20/15 10:33	09/04/15 13:08	1
Dibenzofuran	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1

Client Sample ID: FB001_17082015
Date Collected: 08/17/15 06:45
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1
Hexachlorobenzene	10	U	10	1.0	ug/L		08/20/15 10:33	09/04/15 13:08	1
Pentachlorophenol	26	U	26	12	ug/L		08/20/15 10:33	09/04/15 13:08	1
Phenanthrene	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1
Anthracene	10	U	10	1.4	ug/L		08/20/15 10:33	09/04/15 13:08	1
Fluoranthene	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1
Pyrene	10	U	10	1.5	ug/L		08/20/15 10:33	09/04/15 13:08	1
Benzo[a]anthracene	10	U	10	1.3	ug/L		08/20/15 10:33	09/04/15 13:08	1
Chrysene	10	U	10	1.4	ug/L		08/20/15 10:33	09/04/15 13:08	1
Benzo[b]fluoranthene	10	U	10	2.0	ug/L		08/20/15 10:33	09/04/15 13:08	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1
Benzo[a]pyrene	10	U	10	0.89	ug/L		08/20/15 10:33	09/04/15 13:08	1
Indeno[1,2,3-cd]pyrene	10	U	10	0.91	ug/L		08/20/15 10:33	09/04/15 13:08	1
Dibenz(a,h)anthracene	10	U	10	1.2	ug/L		08/20/15 10:33	09/04/15 13:08	1
Benzo[g,h,i]perylene	10	U	10	1.3	ug/L		08/20/15 10:33	09/04/15 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*45 - 115*	*08/20/15 10:33*	*09/04/15 13:08*	*1*
Terphenyl-d14 (Surr)	*92*		*35 - 140*	*08/20/15 10:33*	*09/04/15 13:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.052	U	0.052	0.0016	ug/L		08/24/15 09:33	08/31/15 20:35	1
gamma-BHC (Lindane)	0.052	U	0.052	0.0010	ug/L		08/24/15 09:33	08/31/15 20:35	1
beta-BHC	0.052	U	0.052	0.011	ug/L		08/24/15 09:33	08/31/15 20:35	1
delta-BHC	0.052	U	0.052	0.0015	ug/L		08/24/15 09:33	08/31/15 20:35	1
Heptachlor	0.052	U	0.052	0.0013	ug/L		08/24/15 09:33	08/31/15 20:35	1
Aldrin	0.052	U	0.052	0.00095	ug/L		08/24/15 09:33	08/31/15 20:35	1
gamma-Chlordane	0.052	U	0.052	0.0011	ug/L		08/24/15 09:33	08/31/15 20:35	1
alpha-Chlordane	0.052	U	0.052	0.0010	ug/L		08/24/15 09:33	08/31/15 20:35	1
4,4'-DDE	0.052	U	0.052	0.0016	ug/L		08/24/15 09:33	08/31/15 20:35	1
Endosulfan I	0.052	U	0.052	0.00089	ug/L		08/24/15 09:33	08/31/15 20:35	1
Dieldrin	0.052	U	0.052	0.0016	ug/L		08/24/15 09:33	08/31/15 20:35	1
Endrin	0.052	U	0.052	0.0023	ug/L		08/24/15 09:33	08/31/15 20:35	1
4,4'-DDD	0.052	U	0.052	0.0013	ug/L		08/24/15 09:33	08/31/15 20:35	1
Endosulfan II	0.052	U	0.052	0.0016	ug/L		08/24/15 09:33	08/31/15 20:35	1
4,4'-DDT	0.052	U	0.052	0.0027	ug/L		08/24/15 09:33	08/31/15 20:35	1
Endosulfan sulfate	0.052	U	0.052	0.0018	ug/L		08/24/15 09:33	08/31/15 20:35	1
Chlordane (technical)	0.52	U	0.52	0.0042	ug/L		08/24/15 09:33	08/31/15 20:35	1
Mirex	0.10	U	0.10	0.10	ug/L		08/24/15 09:33	08/31/15 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*50 - 120*	*08/24/15 09:33*	*08/31/15 20:35*	*1*
Tetrachloro-m-xylene	*91*		*50 - 120*	*08/24/15 09:33*	*08/31/15 20:35*	*1*
DCB Decachlorobiphenyl	*51*		*45 - 115*	*08/24/15 09:33*	*08/31/15 20:35*	*1*
DCB Decachlorobiphenyl	*50*		*45 - 115*	*08/24/15 09:33*	*08/31/15 20:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.55	U	0.55	0.063	ug/L		08/19/15 10:50	08/20/15 13:48	1

Client Sample ID: FB001_17082015
Date Collected: 08/17/15 06:45
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-1
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	0.55	U	0.55	0.063	ug/L		08/19/15 10:50	08/20/15 13:48	1
PCB-1232	0.55	U	0.55	0.063	ug/L		08/19/15 10:50	08/20/15 13:48	1
PCB-1242	0.55	U	0.55	0.063	ug/L		08/19/15 10:50	08/20/15 13:48	1
PCB-1248	0.55	U	0.55	0.063	ug/L		08/19/15 10:50	08/20/15 13:48	1
PCB-1254	0.55	U	0.55	0.026	ug/L		08/19/15 10:50	08/20/15 13:48	1
PCB-1260	0.55	U	0.55	0.026	ug/L		08/19/15 10:50	08/20/15 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*55 - 120*	*08/19/15 10:50*	*08/20/15 13:48*	*1*
Tetrachloro-m-xylene	*69*		*55 - 120*	*08/19/15 10:50*	*08/20/15 13:48*	*1*
DCB Decachlorobiphenyl	*22*	*X*	*30 - 150*	*08/19/15 10:50*	*08/20/15 13:48*	*1*
DCB Decachlorobiphenyl	*24*	*X*	*30 - 150*	*08/19/15 10:50*	*08/20/15 13:48*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.63	U	0.63	0.11	ug/L		08/20/15 11:47	08/21/15 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*112*		*44 - 150*	*08/20/15 11:47*	*08/21/15 11:38*	*1*
2,4-Dichlorophenylacetic acid	*108*		*44 - 150*	*08/20/15 11:47*	*08/21/15 11:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/21/15 09:50	08/25/15 19:02	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/21/15 09:50	08/25/15 19:02	1
Barium	200	U	200	5.5	ug/L		08/21/15 09:50	08/25/15 19:02	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/21/15 09:50	08/25/15 19:02	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/21/15 09:50	08/25/15 19:02	1
Chromium	10.0	U	10.0	4.5	ug/L		08/21/15 09:50	08/25/15 19:02	1
Copper	25.0	U	25.0	5.0	ug/L		08/21/15 09:50	08/25/15 19:02	1
Manganese	15.0	U	15.0	4.9	ug/L		08/21/15 09:50	08/25/15 19:02	1
Nickel	40.0	U	40.0	5.4	ug/L		08/21/15 09:50	08/25/15 19:02	1
Lead	10.0	U	10.0	4.2	ug/L		08/21/15 09:50	08/25/15 19:02	1
Selenium	20.0	U	20.0	6.8	ug/L		08/21/15 09:50	08/25/15 19:02	1
Zinc	30.0	U	30.0	5.9	ug/L		08/21/15 09:50	08/25/15 19:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/20/15 05:22	08/20/15 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U	10.0	4.9	ug/L			08/17/15 21:20	1
Cr (III)	10.0	U	10.0	10.0	ug/L			08/19/15 13:10	1
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:47	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.740	U	14.1	14.1	25.8	pCi/L	08/20/15 10:34	09/11/15 17:38	1

Client Sample ID: FB001_17082015
Date Collected: 08/17/15 06:45
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-1
Matrix: Water

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	52.0	U	131	132	221	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Uranium-238	38.6	U	46.0	46.2	220	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Radium-228	-0.134	U	23.2	23.2	43.2	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Bismuth-214	-0.740	U	14.1	14.1	25.8	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Actinium-228	-0.134	U	23.2	23.2	43.2	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Bismuth-212	4.09	U	64.6	64.6	121	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Lead-212	3.02	U	8.97	8.98	16.9	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Lead-214	-7.99	U	75.0	75.0	22.6	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Potassium-40	-7.66	U	78.4	78.4	152	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Protactinium-234m	368	U	650	651	1220	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Protactinium-231	42.5	U	83.6	83.7	250	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Thallium-208	-4.47	U	179	179	12.4	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Thorium-234	38.6	U	46.0	46.2	220	pCi/L	08/20/15 10:34	09/11/15 17:38	1
Uranium-235	20.2	U	31.9	32.0	58.7	pCi/L	08/20/15 10:34	09/11/15 17:38	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	-0.00717	U	0.0553	0.0553	0.176	pCi/L	08/31/15 10:06	09/10/15 11:38	1
Thorium-230	**0.139**		0.122	0.123	0.129	pCi/L	08/31/15 10:06	09/10/15 11:38	1
Thorium-232	0.0108	U	0.0520	0.0520	0.141	pCi/L	08/31/15 10:06	09/10/15 11:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.8*		*30 - 110*	*08/31/15 10:06*	*09/10/15 11:38*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.0291	U	0.0682	0.0682	0.142	pCi/L	08/31/15 10:06	09/04/15 12:23	1
Uranium-235/236	0.0127	U	0.0610	0.0610	0.165	pCi/L	08/31/15 10:06	09/04/15 12:23	1
Uranium-238	0.0262	U	0.0851	0.0852	0.184	pCi/L	08/31/15 10:06	09/04/15 12:23	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.8*		*30 - 110*	*08/31/15 10:06*	*09/04/15 12:23*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**-0.874**	**U G**	27.149	27.149	43.2	pCi/L		09/21/15 22:06	1

Client Sample ID: RXR2A/-2.8--10.9/1708215
Date Collected: 08/17/15 07:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-2
Matrix: Solid
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.4	U	4.4	0.59	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,1-Dichloroethene	4.4	U	4.4	0.25	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Acetone	**13**		4.4	3.6	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Methylene Chloride	4.4	U	4.4	0.50	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
trans-1,2-Dichloroethene	4.4	U	4.4	0.074	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Methyl tert-butyl ether	4.4	U	4.4	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,3-Dichlorobenzene	**0.28**	**J**	4.4	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,1-Dichloroethane	4.4	U	4.4	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
cis-1,2-Dichloroethene	4.4	U	4.4	0.38	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
2-Butanone (MEK)	**3.8**	**J**	4.4	2.0	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Chloroform	4.4	U	4.4	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,1,1-Trichloroethane	4.4	U	4.4	0.28	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Carbon tetrachloride	4.4	U	4.4	0.048	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Benzene	4.4	U	4.4	0.38	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,2-Dichloroethane	4.4	U	4.4	0.77	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Trichloroethene	4.4	U	4.4	0.51	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,4-Dioxane	89	U	89	12	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Toluene	**1.8**	**J**	4.4	0.17	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Tetrachloroethene	**0.47**	**J**	4.4	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Chlorobenzene	4.4	U	4.4	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Ethylbenzene	**0.41**	**J**	4.4	0.060	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
m-Xylene & p-Xylene	**1.1**	**J**	4.4	0.34	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
o-Xylene	4.4	U	4.4	0.047	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
Xylenes, Total	**1.1**	**J**	8.9	0.047	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
N-Propylbenzene	4.4	U	4.4	0.28	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,3,5-Trimethylbenzene	4.4	U	4.4	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
tert-Butylbenzene	4.4	U	4.4	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,2,4-Trimethylbenzene	**0.54**	**J**	4.4	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
sec-Butylbenzene	4.4	U	4.4	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,4-Dichlorobenzene	4.4	U	4.4	0.34	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
1,2-Dichlorobenzene	4.4	U	4.4	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1
n-Butylbenzene	4.4	U	4.4	0.23	ug/Kg	☼	08/18/15 14:50	08/27/15 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*35 - 145*	*08/18/15 14:50*	*08/27/15 10:03*	*1*
Toluene-d8 (Surr)	*106*		*40 - 175*	*08/18/15 14:50*	*08/27/15 10:03*	*1*
4-Bromofluorobenzene	*118*		*30 - 200*	*08/18/15 14:50*	*08/27/15 10:03*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*	*08/18/15 14:50*	*08/27/15 10:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	750	U	750	24	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
2-Methylphenol	750	U	750	33	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
3 & 4 Methylphenol	750	U	750	20	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Naphthalene	**24**	**J**	750	19	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
2-Methylnaphthalene	750	U	750	17	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
2-Chloronaphthalene	750	U	750	17	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Acenaphthylene	750	U	750	19	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Acenaphthene	750	U	750	18	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Dibenzofuran	750	U	750	23	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2

Client Sample ID: RXR2A/-2.8--10.9/1708215
Date Collected: 08/17/15 07:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-2
Matrix: Solid
Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	750	U	750	16	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Hexachlorobenzene	75	U	75	30	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Pentachlorophenol	600	U	600	91	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Phenanthrene	**54**	**J**	750	20	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Anthracene	750	U	750	71	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Fluoranthene	**110**	**J**	750	22	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Pyrene	**240**	**J**	750	34	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Benzo[a]anthracene	**110**		75	63	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Chrysene	**110**	**J**	750	20	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Benzo[b]fluoranthene	**210**		75	29	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Benzo[k]fluoranthene	**71**	**J**	75	33	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Benzo[a]pyrene	**160**		75	23	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Indeno[1,2,3-cd]pyrene	**140**		75	50	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Dibenz(a,h)anthracene	**44**	**J**	75	39	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2
Benzo[g,h,i]perylene	**120**	**J**	750	43	ug/Kg	☼	08/28/15 13:08	09/02/15 05:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*28 - 92*	*08/28/15 13:08*	*09/02/15 05:41*	*2*
2-Fluorobiphenyl	*89*	*X*	*27 - 84*	*08/28/15 13:08*	*09/02/15 05:41*	*2*
Terphenyl-d14 (Surr)	*92*		*16 - 114*	*08/28/15 13:08*	*09/02/15 05:41*	*2*
2,4,6-Tribromophenol (Surr)	*65*		*10 - 95*	*08/28/15 13:08*	*09/02/15 05:41*	*2*
2-Fluorophenol (Surr)	*72*		*21 - 84*	*08/28/15 13:08*	*09/02/15 05:41*	*2*
Phenol-d5 (Surr)	*75*		*22 - 88*	*08/28/15 13:08*	*09/02/15 05:41*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.3	U	2.3	0.70	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
gamma-BHC (Lindane)	2.3	U	2.3	0.68	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
beta-BHC	2.3	U	2.3	0.74	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
delta-BHC	2.3	U	2.3	0.83	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Heptachlor	7.6	U	7.6	0.98	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Aldrin	7.6	U	7.6	0.92	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
gamma-Chlordane	7.6	U	7.6	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
alpha-Chlordane	7.6	U	7.6	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
4,4'-DDE	7.6	U	7.6	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Endosulfan I	7.6	U	7.6	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Dieldrin	2.3	U	2.3	0.99	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Endrin	7.6	U	7.6	0.97	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
4,4'-DDD	7.6	U	7.6	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Endosulfan II	7.6	U	7.6	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
4,4'-DDT	7.6	U *	7.6	0.79	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Endosulfan sulfate	7.6	U	7.6	0.89	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Chlordane (technical)	76	U	76	34	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1
Mirex	7.6	U	7.6	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:28*	*1*
Tetrachloro-m-xylene	*108*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:28*	*1*
DCB Decachlorobiphenyl	*110*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:28*	*1*
DCB Decachlorobiphenyl	*107*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:28*	*1*

Client Sample ID: RXR2A/-2.8--10.9/1708215
Date Collected: 08/17/15 07:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-2
Matrix: Solid
Percent Solids: 87.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	20	U	20	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1221	20	U	20	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1232	20	U	20	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1242	20	U	20	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1248	20	U	20	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1254	**8.6**	**J p**	20	3.0	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1
PCB-1260	20	U	20	3.0	ug/Kg	☼	08/25/15 11:13	09/21/15 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 130*	*08/25/15 11:13*	*09/21/15 17:52*	*1*
Tetrachloro-m-xylene	*71*		*30 - 130*	*08/25/15 11:13*	*09/21/15 17:52*	*1*
DCB Decachlorobiphenyl	*55*		*45 - 125*	*08/25/15 11:13*	*09/21/15 17:52*	*1*
DCB Decachlorobiphenyl	*64*		*45 - 125*	*08/25/15 11:13*	*09/21/15 17:52*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	19	U	19	13	ug/Kg	☼	08/26/15 11:22	09/02/15 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*281*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:57*	*1*
2,4-Dichlorophenylacetic acid	*199*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**12.8**		2.2	0.38	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Arsenic	**7.1**		3.3	1.1	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Barium	**18.6**	**J**	43.5	1.6	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Beryllium	0.43	U	0.43	0.37	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Cadmium	**2.4**		0.87	0.45	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Chromium	**16.7**		2.2	1.1	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Copper	**92.5**		5.4	1.4	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Manganese	**139**		3.3	1.1	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Nickel	**9.0**		8.7	1.6	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Lead	**57.0**		2.2	0.85	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Selenium	4.3	U	4.3	1.5	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4
Zinc	**87.1**		6.5	1.6	mg/Kg	☼	08/31/15 08:14	09/02/15 21:50	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.018	0.013	mg/Kg	☼	09/12/15 12:43	09/12/15 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.3	U	2.3	0.93	mg/Kg	☼	09/15/15 08:30	09/15/15 13:40	1
Chromium (hexavalent)	2.3	U	2.3	0.92	mg/Kg	☼	09/15/15 19:00	09/15/15 23:42	1
Cr (III)	**16.7**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	0.11	U	0.11	0.018	mg/Kg	☼	08/27/15 13:30	08/27/15 19:39	1
Percent Solids	**87.7**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR2A/-2.8--10.9/1708215

Date Collected: 08/17/15 07:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-2

Matrix: Solid
Percent Solids: 87.7

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.171	U	0.107	0.108	0.273	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Bismuth-212	0.247	U	0.417	0.418	0.712	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Bismuth-214	**0.420**		0.112	0.120	0.0806	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Lead-210	-0.296	U	2.45	2.45	1.47	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Lead-212	**0.455**		0.0902	0.108	0.0816	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Lead-214	**0.376**		0.0744	0.0840	0.0774	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Potassium-40	**6.00**		1.16	1.31	0.872	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Protactinium-231	0.159	U	0.322	0.322	1.23	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Radium-226	**0.420**		0.112	0.120	0.0806	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Radium-228	0.171	U	0.107	0.108	0.273	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Thallium-208	**0.0713**		0.0416	0.0422	0.0601	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Thorium-234	0.466	U	0.391	0.394	1.35	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Uranium-235	0.0944	U	0.150	0.150	0.261	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Uranium-238	0.466	U	0.391	0.394	1.35	pCi/g	08/27/15 10:28	09/17/15 08:17	1
Protactinium-234m	-0.00775	U	4.76	4.76	9.03	pCi/g	08/27/15 10:28	09/17/15 08:17	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.601**		0.160	0.167	0.0596	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.389**		0.130	0.134	0.0678	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.367**		0.124	0.128	0.0475	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*99.0*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.643**		0.173	0.181	0.103	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0467	U	0.0551	0.0552	0.0774	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.607**		0.168	0.176	0.105	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*88.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.591**		0.155	0.161	0.273	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR3C/-11.4--11.9/17082015
Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7
Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.8	U	4.8	0.63	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,1-Dichloroethene	4.8	U	4.8	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Acetone	**25**		4.8	3.9	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Methylene Chloride	4.8	U	4.8	0.54	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
trans-1,2-Dichloroethene	4.8	U	4.8	0.080	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Methyl tert-butyl ether	4.8	U	4.8	0.33	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,3-Dichlorobenzene	4.8	U	4.8	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,1-Dichloroethane	4.8	U	4.8	0.43	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
cis-1,2-Dichloroethene	4.8	U	4.8	0.41	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
2-Butanone (MEK)	4.8	U	4.8	2.1	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Chloroform	4.8	U	4.8	0.42	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,1,1-Trichloroethane	4.8	U	4.8	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Carbon tetrachloride	4.8	U	4.8	0.052	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Benzene	4.8	U	4.8	0.41	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,2-Dichloroethane	4.8	U	4.8	0.84	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Trichloroethene	4.8	U	4.8	0.55	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,4-Dioxane	96	U	96	13	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Toluene	**1.7**	**J**	4.8	0.18	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Tetrachloroethene	**0.31**	**J**	4.8	0.28	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Chlorobenzene	4.8	U	4.8	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Ethylbenzene	4.8	U	4.8	0.065	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
m-Xylene & p-Xylene	**0.85**	**J**	4.8	0.37	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
o-Xylene	**0.37**	**J**	4.8	0.051	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
Xylenes, Total	**1.2**	**J**	9.6	0.051	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
N-Propylbenzene	4.8	U	4.8	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,3,5-Trimethylbenzene	4.8	U	4.8	0.21	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
tert-Butylbenzene	4.8	U	4.8	0.24	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,2,4-Trimethylbenzene	4.8	U	4.8	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
sec-Butylbenzene	4.8	U	4.8	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,4-Dichlorobenzene	4.8	U	4.8	0.37	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
1,2-Dichlorobenzene	4.8	U	4.8	0.13	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1
n-Butylbenzene	4.8	U	4.8	0.25	ug/Kg	☼	08/18/15 14:50	08/27/15 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*08/18/15 14:50*	*08/27/15 10:33*	*1*
Toluene-d8 (Surr)	*112*		*40 - 175*	*08/18/15 14:50*	*08/27/15 10:33*	*1*
4-Bromofluorobenzene	*130*		*30 - 200*	*08/18/15 14:50*	*08/27/15 10:33*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 150*	*08/18/15 14:50*	*08/27/15 10:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	390	U	390	13	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
2-Methylphenol	390	U	390	17	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
3 & 4 Methylphenol	390	U	390	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Naphthalene	390	U	390	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
2-Methylnaphthalene	390	U	390	8.7	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
2-Chloronaphthalene	390	U	390	8.9	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Acenaphthylene	390	U	390	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Acenaphthene	390	U	390	9.5	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Dibenzofuran	390	U	390	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1

Client Sample ID: RXR3C/-11.4--11.9/17082015
Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	390	U	390	8.5	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Hexachlorobenzene	39	U	39	16	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Pentachlorophenol	320	U	320	47	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Phenanthrene	**16**	**J**	390	10	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Anthracene	390	U	390	37	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Fluoranthene	**48**	**J**	390	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Pyrene	**97**	**J**	390	18	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Benzo[a]anthracene	39	U	39	33	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Chrysene	**31**	**J**	390	11	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Benzo[b]fluoranthene	**50**		39	15	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Benzo[k]fluoranthene	**17**	**J**	39	17	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Benzo[a]pyrene	**43**		39	12	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Indeno[1,2,3-cd]pyrene	**35**	**J ***	39	26	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Dibenz(a,h)anthracene	39	U	39	20	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1
Benzo[g,h,i]perylene	**32**	**J**	390	23	ug/Kg	☼	08/26/15 22:47	08/31/15 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*28 - 92*	*08/26/15 22:47*	*08/31/15 23:10*	*1*
2-Fluorobiphenyl	*73*		*27 - 84*	*08/26/15 22:47*	*08/31/15 23:10*	*1*
Terphenyl-d14 (Surr)	*108*		*16 - 114*	*08/26/15 22:47*	*08/31/15 23:10*	*1*
2,4,6-Tribromophenol (Surr)	*105*	*X*	*10 - 95*	*08/26/15 22:47*	*08/31/15 23:10*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 84*	*08/26/15 22:47*	*08/31/15 23:10*	*1*
Phenol-d5 (Surr)	*64*		*22 - 88*	*08/26/15 22:47*	*08/31/15 23:10*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.4	U	2.4	0.72	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
gamma-BHC (Lindane)	2.4	U	2.4	0.71	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
beta-BHC	2.4	U	2.4	0.77	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
delta-BHC	2.4	U	2.4	0.87	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Heptachlor	7.9	U	7.9	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Aldrin	7.9	U	7.9	0.96	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
gamma-Chlordane	7.9	U	7.9	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
alpha-Chlordane	7.9	U	7.9	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
4,4'-DDE	7.9	U	7.9	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Endosulfan I	7.9	U	7.9	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Endrin	7.9	U	7.9	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
4,4'-DDD	7.9	U	7.9	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Endosulfan II	7.9	U	7.9	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
4,4'-DDT	7.9	U *	7.9	0.82	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Endosulfan sulfate	7.9	U	7.9	0.92	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Chlordane (technical)	79	U	79	35	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1
Mirex	7.9	U	7.9	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:41*	*1*
Tetrachloro-m-xylene	*100*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:41*	*1*
DCB Decachlorobiphenyl	*102*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:41*	*1*
DCB Decachlorobiphenyl	*98*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:41*	*1*

Client Sample ID: RXR3C/-11.4--11.9/17082015
Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7
Matrix: Solid
Percent Solids: 84.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	21	U *	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1221	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1232	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1242	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1248	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1254	**36**		21	3.1	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1
PCB-1260	21	U *	21	3.1	ug/Kg	☼	08/25/15 11:13	09/21/15 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 130*	*08/25/15 11:13*	*09/21/15 12:08*	*1*
Tetrachloro-m-xylene	*63*		*30 - 130*	*08/25/15 11:13*	*09/21/15 12:08*	*1*
DCB Decachlorobiphenyl	*56*		*45 - 125*	*08/25/15 11:13*	*09/21/15 12:08*	*1*
DCB Decachlorobiphenyl	*60*		*45 - 125*	*08/25/15 11:13*	*09/21/15 12:08*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	13	ug/Kg	☼	08/26/15 11:22	09/03/15 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*460*	*X*	*83 - 150*	*08/26/15 11:22*	*09/03/15 00:12*	*1*
2,4-Dichlorophenylacetic acid	*230*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/03/15 00:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**7.0**		2.1	0.38	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Arsenic	**13.8**		3.2	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Barium	**10.6**	**J**	42.7	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Beryllium	0.43	U	0.43	0.36	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Cadmium	**1.2**		0.85	0.45	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Chromium	**11.0**		2.1	1.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Copper	**44.5**		5.3	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Manganese	**37.7**		3.2	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Nickel	**5.3**	**J**	8.5	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Lead	**45.1**		2.1	0.84	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Selenium	4.3	U	4.3	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4
Zinc	**66.2**		6.4	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:47	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.019	0.014	mg/Kg	☼	09/12/15 12:43	09/12/15 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.98	mg/Kg	☼	09/15/15 08:30	09/15/15 15:00	1
Chromium (hexavalent)	2.3	U	2.3	0.94	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**11.0**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.027**	**J**	0.11	0.018	mg/Kg	☼	08/27/15 13:30	08/27/15 19:40	1
Percent Solids	**84.3**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR3C/-11.4--11.9/17082015

Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7

Matrix: Solid
Percent Solids: 84.3

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.745**		0.166	0.183	0.0675	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Bismuth-212	0.409	U	0.457	0.459	0.739	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Bismuth-214	**0.392**		0.110	0.118	0.118	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Lead-210	1.09	U	0.870	0.879	1.11	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Lead-212	**0.441**		0.113	0.127	0.120	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Lead-214	**0.505**		0.113	0.125	0.125	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Potassium-40	**6.44**		1.01	1.21	0.779	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Protactinium-231	0.361	U	0.307	0.309	1.69	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Radium-226	**0.392**		0.110	0.118	0.118	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Radium-228	**0.745**		0.166	0.183	0.0675	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Thallium-208	**0.173**		0.0597	0.0624	0.0627	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Thorium-234	**1.62**		0.764	0.782	1.02	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Uranium-235	-0.0166	U	0.220	0.220	0.378	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Uranium-238	**1.62**		0.764	0.782	1.02	pCi/g	08/27/15 10:28	09/17/15 08:16	1
Protactinium-234m	1.30	U	4.66	4.66	8.28	pCi/g	08/27/15 10:28	09/17/15 08:16	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.584**		0.162	0.169	0.0670	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.397**		0.134	0.138	0.0683	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.526**		0.153	0.159	0.0667	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*95.2*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.728**		0.183	0.193	0.0800	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0648	U	0.0631	0.0633	0.0728	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.749**		0.184	0.195	0.0584	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.6*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.137**		0.199	0.218	0.118	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR12A/-8.8--9.9/17082015
Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8
Matrix: Solid
Percent Solids: 57.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	9.2	U F1	9.2	1.2	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,1-Dichloroethene	9.2	U F1 *	9.2	0.51	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Acetone	**470**	**F1**	9.2	7.5	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Methylene Chloride	9.2	U	9.2	1.0	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
trans-1,2-Dichloroethene	9.2	U F1	9.2	0.15	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Methyl tert-butyl ether	**3.0**	**J F1**	9.2	0.62	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,3-Dichlorobenzene	9.2	U *	9.2	0.20	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,1-Dichloroethane	9.2	U F1	9.2	0.83	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
cis-1,2-Dichloroethene	9.2	U	9.2	0.79	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
2-Butanone (MEK)	**180**		9.2	4.0	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Chloroform	9.2	U F1	9.2	0.81	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,1,1-Trichloroethane	9.2	U F1	9.2	0.57	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Carbon tetrachloride	9.2	U F1 F2	9.2	0.099	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Benzene	**1.2**	**J**	9.2	0.79	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,2-Dichloroethane	9.2	U	9.2	1.6	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Trichloroethene	9.2	U	9.2	1.0	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,4-Dioxane	180	U	180	26	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Toluene	**5.4**	**J**	9.2	0.35	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Tetrachloroethene	**1.1**	**J F1**	9.2	0.53	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Chlorobenzene	9.2	U	9.2	0.20	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Ethylbenzene	**0.98**	**J F1**	9.2	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
m-Xylene & p-Xylene	**2.4**	**J F1**	9.2	0.70	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
o-Xylene	9.2	U F1	9.2	0.097	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
Xylenes, Total	**2.4**	**J F1**	18	0.097	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
N-Propylbenzene	9.2	U * F1	9.2	0.57	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,3,5-Trimethylbenzene	9.2	U * F1	9.2	0.40	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
tert-Butylbenzene	9.2	U * F1	9.2	0.46	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,2,4-Trimethylbenzene	9.2	U * F1	9.2	0.22	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
sec-Butylbenzene	9.2	U * F1	9.2	0.20	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,4-Dichlorobenzene	9.2	U * F1 F2	9.2	0.70	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
1,2-Dichlorobenzene	9.2	U *	9.2	0.24	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1
n-Butylbenzene	9.2	U * F1	9.2	0.48	ug/Kg	☼	08/18/15 14:50	08/28/15 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*	*08/18/15 14:50*	*08/28/15 10:45*	*1*
Toluene-d8 (Surr)	*132*		*40 - 175*	*08/18/15 14:50*	*08/28/15 10:45*	*1*
4-Bromofluorobenzene	*142*		*30 - 200*	*08/18/15 14:50*	*08/28/15 10:45*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*08/18/15 14:50*	*08/28/15 10:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	570	U	570	19	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
2-Methylphenol	570	U	570	25	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
3 & 4 Methylphenol	**37**	**J**	570	15	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Naphthalene	**120**	**J**	570	15	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
2-Methylnaphthalene	**99**	**J**	570	13	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
2-Chloronaphthalene	570	U	570	13	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Acenaphthylene	**58**	**J**	570	15	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Acenaphthene	**230**	**J**	570	14	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Dibenzofuran	**170**	**J**	570	17	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1

Client Sample ID: RXR12A/-8.8--9.9/17082015
Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8
Matrix: Solid
Percent Solids: 57.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**370**	**J**	570	12	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Hexachlorobenzene	57	U	57	23	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Pentachlorophenol	460	U	460	69	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Phenanthrene	**3300**	**F1**	570	15	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Anthracene	**830**		570	54	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Fluoranthene	**4700**	**F1**	570	17	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Pyrene	**3200**	**F1**	570	26	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Benzo[a]anthracene	**1900**	**F1**	57	48	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Chrysene	**2200**	**F1**	570	16	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Benzo[b]fluoranthene	**2400**	**F1**	57	22	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Benzo[k]fluoranthene	**930**		57	25	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Benzo[a]pyrene	**1900**		57	17	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Indeno[1,2,3-cd]pyrene	**1800**		57	38	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Dibenz(a,h)anthracene	**400**		57	30	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1
Benzo[g,h,i]perylene	**1600**		570	33	ug/Kg	☼	08/26/15 22:47	08/27/15 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*69*		*28 - 92*	*08/26/15 22:47*	*08/27/15 09:27*	*1*
2-Fluorobiphenyl	*76*		*27 - 84*	*08/26/15 22:47*	*08/27/15 09:27*	*1*
Terphenyl-d14 (Surr)	*59*		*16 - 114*	*08/26/15 22:47*	*08/27/15 09:27*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*10 - 95*	*08/26/15 22:47*	*08/27/15 09:27*	*1*
2-Fluorophenol (Surr)	*62*		*21 - 84*	*08/26/15 22:47*	*08/27/15 09:27*	*1*
Phenol-d5 (Surr)	*61*		*22 - 88*	*08/26/15 22:47*	*08/27/15 09:27*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.5	U	3.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
gamma-BHC (Lindane)	3.5	U	3.5	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
beta-BHC	3.5	U	3.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
delta-BHC	3.5	U	3.5	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Heptachlor	12	U	12	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Aldrin	12	U	12	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
gamma-Chlordane	12	U	12	2.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
alpha-Chlordane	12	U	12	1.9	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
4,4'-DDE	12	U	12	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Endosulfan I	12	U	12	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Dieldrin	3.5	U	3.5	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Endrin	12	U	12	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
4,4'-DDD	12	U	12	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Endosulfan II	12	U	12	1.8	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
4,4'-DDT	12	U F1 *	12	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Endosulfan sulfate	12	U	12	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Chlordane (technical)	120	U	120	51	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1
Mirex	12	U	12	2.2	ug/Kg	☼	08/28/15 07:02	08/31/15 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:54*	*1*
Tetrachloro-m-xylene	*124*		*55 - 139*	*08/28/15 07:02*	*08/31/15 21:54*	*1*
DCB Decachlorobiphenyl	*125*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:54*	*1*
DCB Decachlorobiphenyl	*123*		*55 - 148*	*08/28/15 07:02*	*08/31/15 21:54*	*1*

Client Sample ID: RXR12A/-8.8--9.9/17082015

Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8

Matrix: Solid
Percent Solids: 57.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	150	U F1	150	12	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1221	150	U	150	12	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1232	150	U	150	12	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1242	150	U	150	12	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1248	150	U	150	12	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1254	**630**	**p**	150	22	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5
PCB-1260	150	U F1	150	22	ug/Kg	☼	08/25/15 11:13	09/21/15 18:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 130*	*08/25/15 11:13*	*09/21/15 18:09*	*5*
Tetrachloro-m-xylene	*62*		*30 - 130*	*08/25/15 11:13*	*09/21/15 18:09*	*5*
DCB Decachlorobiphenyl	*52*		*45 - 125*	*08/25/15 11:13*	*09/21/15 18:09*	*5*
DCB Decachlorobiphenyl	*60*		*45 - 125*	*08/25/15 11:13*	*09/21/15 18:09*	*5*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	29	U F1	29	20	ug/Kg	☼	08/27/15 11:12	09/01/15 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*412*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 22:36*	*1*
2,4-Dichlorophenylacetic acid	*460*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 22:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**247**		3.3	0.58	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Arsenic	**41.5**		4.9	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Barium	**69.8**		65.6	2.3	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Beryllium	**0.60**	**J**	0.66	0.56	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Cadmium	**42.8**		1.3	0.68	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Chromium	**54.9**		3.3	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Copper	**401**		8.2	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Manganese	**390**		4.9	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Nickel	**30.0**		13.1	2.4	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Lead	**351**		3.3	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Selenium	**5.6**	**J**	6.6	2.3	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4
Zinc	**280**	**F1**	9.8	2.4	mg/Kg	☼	08/31/15 08:00	09/02/15 20:26	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**F1**	0.028	0.020	mg/Kg	☼	09/10/15 05:11	09/10/15 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.5	U F1	3.5	1.4	mg/Kg	☼	09/15/15 08:30	09/15/15 13:15	1
Chromium (hexavalent)	3.4	U F1	3.4	1.4	mg/Kg	☼	09/15/15 19:00	09/15/15 23:42	1
Cr (III)	**54.9**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.33**	**F1**	0.17	0.028	mg/Kg	☼	08/27/15 13:30	08/27/15 19:31	1
Percent Solids	**57.5**		0.25	0.25	%			08/25/15 15:31	1

Client Sample ID: RXR12A/-8.8--9.9/17082015

Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8

Matrix: Solid
Percent Solids: 57.5

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.514**		0.231	0.237	0.434	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Bismuth-212	0.652	U	0.892	0.895	1.48	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Bismuth-214	0.141	U	0.155	0.155	0.239	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Lead-210	2.10	U	1.70	1.72	2.27	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Lead-212	**0.626**		0.164	0.183	0.162	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Lead-214	**0.582**		0.139	0.152	0.138	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Potassium-40	**8.02**		1.75	1.93	0.992	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Protactinium-231	0.239	U	0.993	0.993	2.23	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Radium-226	0.141	U	0.155	0.155	0.239	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Radium-228	**0.514**		0.231	0.237	0.434	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Thallium-208	**0.310**		0.0927	0.0982	0.0752	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Thorium-234	0.822	U	0.519	0.526	1.87	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Uranium-235	0.0771	U	0.274	0.274	0.485	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Uranium-238	0.822	U	0.519	0.526	1.87	pCi/g	08/27/15 10:28	09/17/15 08:18	1
Protactinium-234m	1.46	U	7.44	7.44	14.6	pCi/g	08/27/15 10:28	09/17/15 08:18	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.27**		0.253	0.275	0.108	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**1.00**		0.224	0.239	0.0872	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.951**		0.217	0.232	0.0831	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*81.7*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.822**		0.196	0.208	0.110	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0232	U	0.0496	0.0497	0.0979	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.864**		0.201	0.214	0.110	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.6*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.655**		0.278	0.283	0.434	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR12B/-9.9--10.4/17082015
Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9
Matrix: Solid
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.5	U *	4.5	0.59	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,1-Dichloroethene	4.5	U *	4.5	0.25	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Acetone	**130**	*	4.5	3.7	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Methylene Chloride	4.5	U *	4.5	0.50	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
trans-1,2-Dichloroethene	4.5	U *	4.5	0.074	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Methyl tert-butyl ether	4.5	U *	4.5	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,3-Dichlorobenzene	4.5	U *	4.5	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,1-Dichloroethane	4.5	U *	4.5	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
cis-1,2-Dichloroethene	4.5	U *	4.5	0.38	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
2-Butanone (MEK)	**45**	*	4.5	2.0	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Chloroform	4.5	U *	4.5	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,1,1-Trichloroethane	4.5	U *	4.5	0.28	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Carbon tetrachloride	4.5	U *	4.5	0.048	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Benzene	4.5	U *	4.5	0.38	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,2-Dichloroethane	4.5	U *	4.5	0.78	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Trichloroethene	4.5	U *	4.5	0.51	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,4-Dioxane	89	U *	89	12	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Toluene	**2.1**	J *	4.5	0.17	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Tetrachloroethene	4.5	U *	4.5	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Chlorobenzene	4.5	U *	4.5	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Ethylbenzene	4.5	U *	4.5	0.061	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
m-Xylene & p-Xylene	4.5	U *	4.5	0.34	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
o-Xylene	4.5	U *	4.5	0.047	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
Xylenes, Total	8.9	U *	8.9	0.047	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
N-Propylbenzene	4.5	U *	4.5	0.28	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,3,5-Trimethylbenzene	4.5	U *	4.5	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
tert-Butylbenzene	4.5	U *	4.5	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,2,4-Trimethylbenzene	4.5	U *	4.5	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
sec-Butylbenzene	4.5	U *	4.5	0.098	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,4-Dichlorobenzene	4.5	U *	4.5	0.34	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
1,2-Dichlorobenzene	4.5	U *	4.5	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1
n-Butylbenzene	4.5	U *	4.5	0.23	ug/Kg	☼	08/18/15 14:50	08/27/15 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*35 - 145*	*08/18/15 14:50*	*08/27/15 11:04*	*1*
Toluene-d8 (Surr)	*152*		*40 - 175*	*08/18/15 14:50*	*08/27/15 11:04*	*1*
4-Bromofluorobenzene	*170*		*30 - 200*	*08/18/15 14:50*	*08/27/15 11:04*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 150*	*08/18/15 14:50*	*08/27/15 11:04*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	7.1	U H	7.1	0.94	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,1-Dichloroethene	7.1	U H	7.1	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Acetone	**150**	H	7.1	5.8	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Methylene Chloride	7.1	U H	7.1	0.80	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
trans-1,2-Dichloroethene	7.1	U H	7.1	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Methyl tert-butyl ether	7.1	U H	7.1	0.48	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,3-Dichlorobenzene	**6.4**	J H B *	7.1	0.16	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,1-Dichloroethane	7.1	U H	7.1	0.64	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
cis-1,2-Dichloroethene	7.1	U H	7.1	0.61	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1

Client Sample ID: RXR12B/-9.9--10.4/17082015
Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9
Matrix: Solid
Percent Solids: 80.0

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**59**	**H**	7.1	3.1	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Chloroform	7.1	U H	7.1	0.63	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,1,1-Trichloroethane	7.1	U H	7.1	0.44	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Carbon tetrachloride	7.1	U H	7.1	0.077	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Benzene	7.1	U H	7.1	0.61	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,2-Dichloroethane	7.1	U H	7.1	1.2	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Trichloroethene	7.1	U H	7.1	0.81	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,4-Dioxane	140	U H	140	20	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Toluene	**2.5**	**J H**	7.1	0.27	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Tetrachloroethene	7.1	U H	7.1	0.41	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Chlorobenzene	7.1	U H	7.1	0.16	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Ethylbenzene	7.1	U H	7.1	0.097	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
m-Xylene & p-Xylene	**1.2**	**J H**	7.1	0.54	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
o-Xylene	**0.96**	**J H**	7.1	0.076	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
Xylenes, Total	**2.2**	**J H**	14	0.076	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
N-Propylbenzene	7.1	U H *	7.1	0.44	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,3,5-Trimethylbenzene	7.1	U H *	7.1	0.31	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
tert-Butylbenzene	7.1	U H *	7.1	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,2,4-Trimethylbenzene	7.1	U H *	7.1	0.17	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
sec-Butylbenzene	7.1	U H *	7.1	0.16	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,4-Dichlorobenzene	**9.2**	**H ***	7.1	0.54	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
1,2-Dichlorobenzene	7.1	U H *	7.1	0.19	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1
n-Butylbenzene	7.1	U H *	7.1	0.37	ug/Kg	☼	08/27/15 15:18	09/08/15 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*08/27/15 15:18*	*09/08/15 12:23*	*1*
Toluene-d8 (Surr)	*113*		*40 - 175*	*08/27/15 15:18*	*09/08/15 12:23*	*1*
4-Bromofluorobenzene	*148*		*30 - 200*	*08/27/15 15:18*	*09/08/15 12:23*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*08/27/15 15:18*	*09/08/15 12:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**18**	**J**	410	13	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
2-Methylphenol	410	U	410	18	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
3 & 4 Methylphenol	**72**	**J**	410	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Naphthalene	**230**	**J**	410	10	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
2-Methylnaphthalene	**150**	**J**	410	9.1	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
2-Chloronaphthalene	410	U	410	9.3	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Acenaphthylene	**78**	**J**	410	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Acenaphthene	**290**	**J**	410	10	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Dibenzofuran	**170**	**J**	410	12	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Fluorene	**310**	**J**	410	9.0	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Hexachlorobenzene	41	U	41	17	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Pentachlorophenol	330	U	330	50	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Phenanthrene	**3700**		410	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Anthracene	**870**		410	39	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Fluoranthene	**5400**		410	12	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Pyrene	**4500**		410	19	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Benzo[a]anthracene	**2400**		41	34	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Chrysene	**2800**		410	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1

Client Sample ID: RXR12B/-9.9--10.4/17082015
Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9
Matrix: Solid
Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**2600**		41	16	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Benzo[k]fluoranthene	**880**		41	18	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Benzo[a]pyrene	**2200**		41	12	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Indeno[1,2,3-cd]pyrene	**1700**		41	27	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Dibenz(a,h)anthracene	**400**		41	21	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1
Benzo[g,h,i]perylene	**1600**		410	24	ug/Kg	☼	08/27/15 10:55	08/31/15 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*28 - 92*	*08/27/15 10:55*	*08/31/15 05:34*	*1*
2-Fluorobiphenyl	*80*		*27 - 84*	*08/27/15 10:55*	*08/31/15 05:34*	*1*
Terphenyl-d14 (Surr)	*55*		*16 - 114*	*08/27/15 10:55*	*08/31/15 05:34*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 95*	*08/27/15 10:55*	*08/31/15 05:34*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 84*	*08/27/15 10:55*	*08/31/15 05:34*	*1*
Phenol-d5 (Surr)	*64*		*22 - 88*	*08/27/15 10:55*	*08/31/15 05:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.5	U	2.5	0.76	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
gamma-BHC (Lindane)	2.5	U	2.5	0.75	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
beta-BHC	2.5	U	2.5	0.81	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
delta-BHC	2.5	U	2.5	0.91	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Heptachlor	8.4	U	8.4	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Aldrin	8.4	U	8.4	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
gamma-Chlordane	8.4	U	8.4	1.8	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
alpha-Chlordane	8.4	U	8.4	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
4,4'-DDE	8.4	U	8.4	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Endosulfan I	8.4	U	8.4	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Dieldrin	2.5	U	2.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Endrin	8.4	U	8.4	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
4,4'-DDD	8.4	U	8.4	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Endosulfan II	8.4	U	8.4	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
4,4'-DDT	8.4	U *	8.4	0.86	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Endosulfan sulfate	8.4	U	8.4	0.97	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Chlordane (technical)	84	U	84	37	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1
Mirex	8.4	U	8.4	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*120*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:06*	*1*
Tetrachloro-m-xylene	*122*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:06*	*1*
DCB Decachlorobiphenyl	*123*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:06*	*1*
DCB Decachlorobiphenyl	*121*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	82	U	82	6.7	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4
PCB-1221	82	U	82	6.7	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4
PCB-1232	82	U	82	6.7	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4
PCB-1242	**430**	**p**	82	6.7	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4
PCB-1248	82	U	82	6.7	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4
PCB-1254	**490**		82	12	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4

Client Sample ID: RXR12B/-9.9--10.4/17082015
Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9
Matrix: Solid
Percent Solids: 80.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	82	U	82	12	ug/Kg	☼	08/25/15 11:13	09/22/15 13:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*30 - 130*	*08/25/15 11:13*	*09/22/15 13:44*	*4*
Tetrachloro-m-xylene	*44*		*30 - 130*	*08/25/15 11:13*	*09/22/15 13:44*	*4*
DCB Decachlorobiphenyl	*54*		*45 - 125*	*08/25/15 11:13*	*09/22/15 13:44*	*4*
DCB Decachlorobiphenyl	*54*		*45 - 125*	*08/25/15 11:13*	*09/22/15 13:44*	*4*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	21	U	21	14	ug/Kg	☼	08/26/15 11:22	09/02/15 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*151*	*p X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:28*	*1*
2,4-Dichlorophenylacetic acid	*510*	*X*	*83 - 150*	*08/26/15 11:22*	*09/02/15 23:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**137**		2.3	0.41	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Arsenic	**20.1**		3.5	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Barium	**42.0**	**J**	46.3	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Beryllium	0.46	U	0.46	0.39	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Cadmium	**20.6**		0.93	0.48	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Chromium	**35.8**		2.3	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Copper	**231**		5.8	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Manganese	**174**		3.5	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Nickel	**20.7**		9.3	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Lead	**217**		2.3	0.91	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Selenium	**4.0**	**J**	4.6	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4
Zinc	**180**		6.9	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 20:55	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.021	0.015	mg/Kg	☼	09/12/15 12:43	09/12/15 18:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.5	U	2.5	1.0	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	2.4	U	2.4	0.98	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**35.8**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.14**		0.13	0.021	mg/Kg	☼	08/27/15 15:00	08/27/15 17:55	1
Percent Solids	**80.0**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**1.03**		0.279	0.298	0.505	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Bismuth-212	1.00	U	1.08	1.08	1.73	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Bismuth-214	**0.929**		0.268	0.285	0.242	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Lead-210	2.43	U	2.06	2.08	2.75	pCi/g	08/27/15 10:28	09/17/15 08:58	1

Client Sample ID: RXR12B/-9.9--10.4/17082015

Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9

Matrix: Solid
Percent Solids: 80.0

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-212	**1.05**		0.185	0.230	0.162	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Lead-214	**0.949**		0.199	0.222	0.170	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Potassium-40	**11.7**		2.24	2.54	1.23	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Protactinium-231	-0.113	U	1.90	1.90	3.39	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Radium-226	**0.929**		0.268	0.285	0.242	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Radium-228	**1.03**		0.279	0.298	0.505	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Thallium-208	**0.514**		0.144	0.154	0.115	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Thorium-234	1.45	U	0.889	0.902	2.73	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Uranium-235	0.0658	U	0.245	0.245	0.500	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Uranium-238	1.45	U	0.889	0.902	2.73	pCi/g	08/27/15 10:28	09/17/15 08:58	1
Protactinium-234m	-3.63	U	27.8	27.8	19.0	pCi/g	08/27/15 10:28	09/17/15 08:58	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.03**		0.232	0.247	0.108	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**1.16**		0.242	0.261	0.0656	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.959**		0.221	0.235	0.0738	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*78.3*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.945**		0.204	0.219	0.111	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	**0.0755**		0.0638	0.0641	0.0591	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**1.01**		0.209	0.226	0.0980	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.6*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.959**		0.387	0.412	0.505	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR12C/-10.4--10.9/17082015

Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10

Matrix: Solid
Percent Solids: 64.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.7	U	4.7	0.61	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,1-Dichloroethene	4.7	U	4.7	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1

Client Sample ID: RXR12C/-10.4--10.9/17082015
Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10
Matrix: Solid
Percent Solids: 64.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**100**		4.7	3.8	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Methylene Chloride	4.7	U	4.7	0.52	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
trans-1,2-Dichloroethene	4.7	U	4.7	0.077	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Methyl tert-butyl ether	4.7	U	4.7	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,3-Dichlorobenzene	**6.3**	*	4.7	0.10	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,1-Dichloroethane	4.7	U	4.7	0.42	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
cis-1,2-Dichloroethene	4.7	U	4.7	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
2-Butanone (MEK)	**29**		4.7	2.0	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Chloroform	4.7	U	4.7	0.41	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,1,1-Trichloroethane	4.7	U	4.7	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Carbon tetrachloride	4.7	U	4.7	0.050	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Benzene	**0.46**	J	4.7	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,2-Dichloroethane	4.7	U	4.7	0.81	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Trichloroethene	4.7	U	4.7	0.53	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,4-Dioxane	93	U	93	13	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Toluene	**2.1**	J	4.7	0.18	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Tetrachloroethene	4.7	U	4.7	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Chlorobenzene	**1.3**	J	4.7	0.10	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Ethylbenzene	4.7	U	4.7	0.063	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
m-Xylene & p-Xylene	**1.3**	J	4.7	0.35	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
o-Xylene	**0.90**	J	4.7	0.049	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
Xylenes, Total	**2.2**	J	9.3	0.049	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
N-Propylbenzene	4.7	U *	4.7	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,3,5-Trimethylbenzene	4.7	U *	4.7	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
tert-Butylbenzene	4.7	U *	4.7	0.23	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,2,4-Trimethylbenzene	4.7	U *	4.7	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
sec-Butylbenzene	4.7	U *	4.7	0.10	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,4-Dichlorobenzene	**9.6**	*	4.7	0.35	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
1,2-Dichlorobenzene	4.7	U *	4.7	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1
n-Butylbenzene	4.7	U *	4.7	0.24	ug/Kg	☼	08/18/15 14:50	08/27/15 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*35 - 145*	*08/18/15 14:50*	*08/27/15 11:35*	*1*
Toluene-d8 (Surr)	*128*		*40 - 175*	*08/18/15 14:50*	*08/27/15 11:35*	*1*
4-Bromofluorobenzene	*154*		*30 - 200*	*08/18/15 14:50*	*08/27/15 11:35*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*08/18/15 14:50*	*08/27/15 11:35*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.7	U H *	4.7	0.62	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,1-Dichloroethene	4.7	U H *	4.7	0.26	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Acetone	**450**	H *	4.7	3.8	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Methylene Chloride	**1.9**	J H *	4.7	0.53	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
trans-1,2-Dichloroethene	4.7	U H *	4.7	0.078	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Methyl tert-butyl ether	4.7	U H *	4.7	0.32	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,3-Dichlorobenzene	**14**	H B *	4.7	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,1-Dichloroethane	4.7	U H *	4.7	0.42	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
cis-1,2-Dichloroethene	4.7	U H *	4.7	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
2-Butanone (MEK)	**150**	H *	4.7	2.1	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Chloroform	4.7	U H *	4.7	0.41	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1

Client Sample ID: RXR12C/-10.4--10.9/17082015
Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10
Matrix: Solid
Percent Solids: 64.7

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.7	U H *	4.7	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Carbon tetrachloride	4.7	U H *	4.7	0.051	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Benzene	**0.50**	**J H ***	4.7	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,2-Dichloroethane	4.7	U H *	4.7	0.82	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Trichloroethene	4.7	U H *	4.7	0.53	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,4-Dioxane	94	U H	94	13	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Toluene	**4.2**	**J H ***	4.7	0.18	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Tetrachloroethene	**1.5**	**J H ***	4.7	0.27	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Chlorobenzene	**2.4**	**J H ***	4.7	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Ethylbenzene	**1.0**	**J H ***	4.7	0.064	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
m-Xylene & p-Xylene	**2.1**	**J H ***	4.7	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
o-Xylene	**1.8**	**J H ***	4.7	0.050	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
Xylenes, Total	**3.9**	**J H ***	9.4	0.050	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
N-Propylbenzene	4.7	U H *	4.7	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,3,5-Trimethylbenzene	4.7	U H *	4.7	0.21	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
tert-Butylbenzene	4.7	U H *	4.7	0.23	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,2,4-Trimethylbenzene	4.7	U H *	4.7	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
sec-Butylbenzene	4.7	U H *	4.7	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,4-Dichlorobenzene	**22**	**H ***	4.7	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
1,2-Dichlorobenzene	4.7	U H *	4.7	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1
n-Butylbenzene	4.7	U H *	4.7	0.24	ug/Kg	☼	08/27/15 15:18	09/08/15 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*35 - 145*	*08/27/15 15:18*	*09/08/15 12:54*	*1*
Toluene-d8 (Surr)	*110*		*40 - 175*	*08/27/15 15:18*	*09/08/15 12:54*	*1*
4-Bromofluorobenzene	*136*		*30 - 200*	*08/27/15 15:18*	*09/08/15 12:54*	*1*
Dibromofluoromethane (Surr)	*123*		*50 - 150*	*08/27/15 15:18*	*09/08/15 12:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	510	U	510	17	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
2-Methylphenol	510	U	510	22	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
3 & 4 Methylphenol	**77**	**J**	510	14	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Naphthalene	**230**	**J**	510	13	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
2-Methylnaphthalene	**170**	**J**	510	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
2-Chloronaphthalene	510	U	510	12	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Acenaphthylene	**98**	**J**	510	13	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Acenaphthene	**330**	**J**	510	12	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Dibenzofuran	**170**	**J**	510	15	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Fluorene	**370**	**J**	510	11	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Hexachlorobenzene	51	U	51	21	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Pentachlorophenol	410	U	410	62	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Phenanthrene	**4500**		510	14	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Anthracene	**1100**		510	48	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Fluoranthene	**6000**		510	15	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Pyrene	**5400**		510	23	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Benzo[a]anthracene	**2700**		51	43	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Chrysene	**3200**		510	14	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Benzo[b]fluoranthene	**2700**		51	20	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Benzo[k]fluoranthene	**1100**		51	22	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1

Client Sample ID: RXR12C/-10.4--10.9/17082015
Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10
Matrix: Solid
Percent Solids: 64.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**2500**		51	15	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Indeno[1,2,3-cd]pyrene	**1800**		51	34	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Dibenz(a,h)anthracene	**420**		51	27	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1
Benzo[g,h,i]perylene	**1700**		510	29	ug/Kg	☼	08/27/15 10:55	08/31/15 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*28 - 92*	*08/27/15 10:55*	*08/31/15 05:58*	*1*
2-Fluorobiphenyl	*84*		*27 - 84*	*08/27/15 10:55*	*08/31/15 05:58*	*1*
Terphenyl-d14 (Surr)	*62*		*16 - 114*	*08/27/15 10:55*	*08/31/15 05:58*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 95*	*08/27/15 10:55*	*08/31/15 05:58*	*1*
2-Fluorophenol (Surr)	*68*		*21 - 84*	*08/27/15 10:55*	*08/31/15 05:58*	*1*
Phenol-d5 (Surr)	*70*		*22 - 88*	*08/27/15 10:55*	*08/31/15 05:58*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.1	U	3.1	0.94	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
gamma-BHC (Lindane)	3.1	U	3.1	0.93	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
beta-BHC	3.1	U	3.1	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
delta-BHC	3.1	U	3.1	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Heptachlor	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Aldrin	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
gamma-Chlordane	10	U	10	2.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
alpha-Chlordane	10	U	10	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
4,4'-DDE	10	U	10	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Endosulfan I	10	U	10	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Dieldrin	3.1	U	3.1	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Endrin	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
4,4'-DDD	10	U	10	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Endosulfan II	10	U	10	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
4,4'-DDT	10	U *	10	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Endosulfan sulfate	10	U	10	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Chlordane (technical)	100	U	100	46	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1
Mirex	10	U	10	2.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:19*	*1*
Tetrachloro-m-xylene	*100*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:19*	*1*
DCB Decachlorobiphenyl	*97*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:19*	*1*
DCB Decachlorobiphenyl	*95*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	130	U	130	11	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1221	130	U	130	11	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1232	130	U	130	11	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1242	**790**	**p**	130	11	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1248	130	U	130	11	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1254	**900**		130	19	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5
PCB-1260	130	U	130	19	ug/Kg	☼	08/25/15 11:13	09/22/15 14:00	5

Client Sample ID: RXR12C/-10.4--10.9/17082015

Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10

Matrix: Solid
Percent Solids: 64.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		30 - 130	08/25/15 11:13	09/22/15 14:00	5
Tetrachloro-m-xylene	55		30 - 130	08/25/15 11:13	09/22/15 14:00	5
DCB Decachlorobiphenyl	67		45 - 125	08/25/15 11:13	09/22/15 14:00	5
DCB Decachlorobiphenyl	64		45 - 125	08/25/15 11:13	09/22/15 14:00	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	26	U	26	18	ug/Kg	☼	08/26/15 11:22	09/02/15 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	333	X	83 - 150	08/26/15 11:22	09/02/15 23:43	1
2,4-Dichlorophenylacetic acid	497	X	83 - 150	08/26/15 11:22	09/02/15 23:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**205**		2.9	0.51	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Arsenic	**25.9**		4.3	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Barium	**57.6**	**J**	57.8	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Beryllium	0.58	U	0.58	0.49	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Cadmium	**32.9**		1.2	0.60	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Chromium	**45.0**		2.9	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Copper	**316**		7.2	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Manganese	**243**		4.3	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Nickel	**25.8**		11.6	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Lead	**297**		2.9	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Selenium	**4.1**	**J**	5.8	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4
Zinc	**203**		8.7	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 20:58	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.69**		0.025	0.018	mg/Kg	☼	09/12/15 12:43	09/12/15 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.1	U	3.1	1.3	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	3.0	U	3.0	1.2	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**45.0**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.094**	**J**	0.14	0.023	mg/Kg	☼	08/27/15 15:00	08/27/15 17:56	1
Percent Solids	**64.7**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**1.07**		0.268	0.290	0.194	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Bismuth-212	1.06	U	0.819	0.826	1.15	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Bismuth-214	**0.671**		0.214	0.225	0.216	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Lead-210	**2.79**		2.09	2.12	2.77	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Lead-212	**0.968**		0.214	0.248	0.204	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Lead-214	**0.925**		0.188	0.211	0.196	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Potassium-40	**7.73**		1.92	2.08	1.49	pCi/g	08/27/15 10:28	09/17/15 10:20	1

Client Sample ID: RXR12C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-10

Date Collected: 08/17/15 10:50
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 64.7

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Protactinium-231	-0.328	U	1.59	1.59	2.83	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Radium-226	**0.671**		0.214	0.225	0.216	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Radium-228	**1.07**		0.268	0.290	0.194	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Thallium-208	**0.400**		0.142	0.148	0.135	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Thorium-234	0.753	U	0.719	0.723	2.27	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Uranium-235	0.203	U	0.275	0.276	0.492	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Uranium-238	0.753	U	0.719	0.723	2.27	pCi/g	08/27/15 10:28	09/17/15 10:20	1
Protactinium-234m	-1.50	U	4.85	4.86	21.1	pCi/g	08/27/15 10:28	09/17/15 10:20	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.975**		0.211	0.226	0.104	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.950**		0.205	0.220	0.0716	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.864**		0.194	0.207	0.0493	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*91.9*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**1.01**		0.219	0.235	0.0911	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0143	U	0.0287	0.0287	0.0430	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.943**		0.210	0.224	0.0744	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*87.7*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.741**		0.343	0.367	0.216	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR11B/-9.9--10.4/17082015

Lab Sample ID: 200-29316-11

Date Collected: 08/17/15 11:30
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 64.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.5	U	8.5	1.1	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,1-Dichloroethene	8.5	U	8.5	0.47	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Acetone	**230**		8.5	6.9	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Methylene Chloride	8.5	U	8.5	0.95	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
trans-1,2-Dichloroethene	8.5	U	8.5	0.14	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1

Client Sample ID: RXR11B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11
Matrix: Solid
Percent Solids: 64.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	8.5	U	8.5	0.57	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,3-Dichlorobenzene	8.5	U *	8.5	0.19	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,1-Dichloroethane	8.5	U	8.5	0.76	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
cis-1,2-Dichloroethene	8.5	U	8.5	0.73	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
2-Butanone (MEK)	**91**		8.5	3.7	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Chloroform	8.5	U	8.5	0.74	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,1,1-Trichloroethane	8.5	U	8.5	0.52	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Carbon tetrachloride	8.5	U	8.5	0.091	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Benzene	8.5	U	8.5	0.73	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,2-Dichloroethane	8.5	U	8.5	1.5	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Trichloroethene	8.5	U	8.5	0.96	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,4-Dioxane	170	U	170	24	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Toluene	**2.0**	**J ***	8.5	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Tetrachloroethene	8.5	U *	8.5	0.49	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Chlorobenzene	8.5	U *	8.5	0.19	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Ethylbenzene	8.5	U *	8.5	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
m-Xylene & p-Xylene	8.5	U *	8.5	0.64	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
o-Xylene	8.5	U *	8.5	0.090	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
Xylenes, Total	17	U *	17	0.090	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
N-Propylbenzene	8.5	U *	8.5	0.52	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,3,5-Trimethylbenzene	8.5	U *	8.5	0.37	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
tert-Butylbenzene	8.5	U *	8.5	0.42	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,2,4-Trimethylbenzene	8.5	U *	8.5	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
sec-Butylbenzene	8.5	U *	8.5	0.19	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,4-Dichlorobenzene	8.5	U *	8.5	0.64	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
1,2-Dichlorobenzene	8.5	U *	8.5	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1
n-Butylbenzene	8.5	U *	8.5	0.44	ug/Kg	☼	08/18/15 14:50	08/27/15 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*35 - 145*	*08/18/15 14:50*	*08/27/15 12:06*	*1*
Toluene-d8 (Surr)	*124*		*40 - 175*	*08/18/15 14:50*	*08/27/15 12:06*	*1*
4-Bromofluorobenzene	*165*		*30 - 200*	*08/18/15 14:50*	*08/27/15 12:06*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*08/18/15 14:50*	*08/27/15 12:06*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.7	U H	6.7	0.89	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,1-Dichloroethene	6.7	U H	6.7	0.38	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Acetone	**62**	**H**	6.7	5.5	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Methylene Chloride	6.7	U H	6.7	0.75	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
trans-1,2-Dichloroethene	6.7	U H	6.7	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Methyl tert-butyl ether	6.7	U H	6.7	0.46	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,3-Dichlorobenzene	6.7	U H *	6.7	0.15	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,1-Dichloroethane	6.7	U H	6.7	0.60	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
cis-1,2-Dichloroethene	6.7	U H	6.7	0.58	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
2-Butanone (MEK)	**26**	**H**	6.7	3.0	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Chloroform	6.7	U H	6.7	0.59	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,1,1-Trichloroethane	6.7	U H	6.7	0.42	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Carbon tetrachloride	6.7	U H	6.7	0.073	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Benzene	6.7	U H	6.7	0.58	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1

Client Sample ID: RXR11B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11
Matrix: Solid
Percent Solids: 64.1

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	6.7	U H	6.7	1.2	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Trichloroethene	6.7	U H	6.7	0.77	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,4-Dioxane	130	U H	130	19	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Toluene	**2.1**	**J H**	6.7	0.26	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Tetrachloroethene	6.7	U H	6.7	0.39	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Chlorobenzene	6.7	U H	6.7	0.15	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Ethylbenzene	6.7	U H	6.7	0.091	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
m-Xylene & p-Xylene	**1.0**	**J H**	6.7	0.51	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
o-Xylene	**0.59**	**J H**	6.7	0.071	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
Xylenes, Total	**1.6**	**J H**	13	0.071	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
N-Propylbenzene	6.7	U H *	6.7	0.42	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,3,5-Trimethylbenzene	6.7	U H *	6.7	0.30	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
tert-Butylbenzene	6.7	U H *	6.7	0.34	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,2,4-Trimethylbenzene	6.7	U H *	6.7	0.16	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
sec-Butylbenzene	6.7	U H *	6.7	0.15	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,4-Dichlorobenzene	**5.5**	**J H ***	6.7	0.51	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
1,2-Dichlorobenzene	6.7	U H *	6.7	0.17	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1
n-Butylbenzene	6.7	U H *	6.7	0.35	ug/Kg	☼	08/27/15 15:18	09/08/15 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/27/15 15:18*	*09/08/15 13:25*	*1*
Toluene-d8 (Surr)	*125*		*40 - 175*	*08/27/15 15:18*	*09/08/15 13:25*	*1*
4-Bromofluorobenzene	*170*		*30 - 200*	*08/27/15 15:18*	*09/08/15 13:25*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*08/27/15 15:18*	*09/08/15 13:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1000	U	1000	34	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
2-Methylphenol	1000	U	1000	45	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
3 & 4 Methylphenol	**77**	**J**	1000	27	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Naphthalene	**160**	**J**	1000	26	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
2-Methylnaphthalene	**71**	**J**	1000	23	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
2-Chloronaphthalene	1000	U	1000	23	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Acenaphthylene	**60**	**J**	1000	26	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Acenaphthene	**110**	**J**	1000	25	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Dibenzofuran	**84**	**J**	1000	31	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Fluorene	**120**	**J**	1000	22	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Hexachlorobenzene	100	U	100	42	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Pentachlorophenol	830	U	830	120	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Phenanthrene	**1100**		1000	27	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Anthracene	**380**	**J**	1000	98	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Fluoranthene	**3500**		1000	30	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Pyrene	**4900**		1000	47	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Benzo[a]anthracene	**1800**		100	86	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Chrysene	**2300**		1000	28	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Benzo[b]fluoranthene	**2800**		100	40	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Benzo[k]fluoranthene	**1100**		100	45	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Benzo[a]pyrene	**1900**		100	31	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Indeno[1,2,3-cd]pyrene	**2100**		100	68	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2
Dibenz(a,h)anthracene	**480**		100	53	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2

Client Sample ID: RXR11B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11
Matrix: Solid
Percent Solids: 64.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	1900		1000	59	ug/Kg	☼	08/28/15 13:08	09/02/15 03:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*64*		*28 - 92*	*08/28/15 13:08*	*09/02/15 03:24*	*2*
2-Fluorobiphenyl	*66*		*27 - 84*	*08/28/15 13:08*	*09/02/15 03:24*	*2*
Terphenyl-d14 (Surr)	*77*		*16 - 114*	*08/28/15 13:08*	*09/02/15 03:24*	*2*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 95*	*08/28/15 13:08*	*09/02/15 03:24*	*2*
2-Fluorophenol (Surr)	*55*		*21 - 84*	*08/28/15 13:08*	*09/02/15 03:24*	*2*
Phenol-d5 (Surr)	*57*		*22 - 88*	*08/28/15 13:08*	*09/02/15 03:24*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	3.1	U	3.1	0.95	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
gamma-BHC (Lindane)	3.1	U	3.1	0.94	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
beta-BHC	3.1	U	3.1	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
delta-BHC	3.1	U	3.1	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Heptachlor	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Aldrin	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
gamma-Chlordane	10	U	10	2.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
alpha-Chlordane	10	U	10	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
4,4'-DDE	10	U	10	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Endosulfan I	10	U	10	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Dieldrin	3.1	U	3.1	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Endrin	10	U	10	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
4,4'-DDD	10	U	10	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Endosulfan II	10	U	10	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
4,4'-DDT	10	U *	10	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Endosulfan sulfate	10	U	10	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Chlordane (technical)	100	U	100	46	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1
Mirex	10	U	10	2.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:32*	*1*
Tetrachloro-m-xylene	*132*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:32*	*1*
DCB Decachlorobiphenyl	*131*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:32*	*1*
DCB Decachlorobiphenyl	*127*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	110	U	110	9.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1221	110	U	110	9.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1232	110	U	110	9.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1242	600	E p	110	9.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1248	110	U	110	9.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1254	680		110	16	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4
PCB-1260	110	U	110	16	ug/Kg	☼	08/25/15 11:13	09/22/15 14:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 130*	*08/25/15 11:13*	*09/22/15 14:17*	*4*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 11:13*	*09/22/15 14:17*	*4*
DCB Decachlorobiphenyl	*60*		*45 - 125*	*08/25/15 11:13*	*09/22/15 14:17*	*4*

Client Sample ID: RXR11B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11
Matrix: Solid
Percent Solids: 64.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		45 - 125	08/25/15 11:13	09/22/15 14:17	4

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	26	U	26	18	ug/Kg	☼	08/27/15 11:12	09/01/15 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	293	X	83 - 150	08/27/15 11:12	09/01/15 22:51	1
2,4-Dichlorophenylacetic acid	189	p X	83 - 150	08/27/15 11:12	09/01/15 22:51	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	59.7		3.0	0.52	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Arsenic	19.4		4.5	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Barium	43.6	J	59.5	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Beryllium	1.1		0.59	0.50	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Cadmium	11.2		1.2	0.62	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Chromium	40.7		3.0	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Copper	837		7.4	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Manganese	224		4.5	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Nickel	41.1		11.9	2.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Lead	241		3.0	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Selenium	2.6	J	5.9	2.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4
Zinc	286		8.9	2.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:02	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.026	0.018	mg/Kg	☼	09/12/15 12:43	09/12/15 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.1	U	3.1	1.3	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	3.2	U	3.2	1.3	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	40.7		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	0.10	J	0.14	0.023	mg/Kg	☼	08/27/15 15:00	08/27/15 18:00	1
Percent Solids	64.1		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.522		0.197	0.204	0.365	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Bismuth-212	0.235	U	0.625	0.625	1.09	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Bismuth-214	0.510		0.161	0.170	0.180	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Lead-210	1.31	U	1.03	1.04	1.49	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Lead-212	0.818		0.148	0.182	0.147	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Lead-214	0.607		0.146	0.159	0.164	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Potassium-40	10.4		1.55	1.88	1.14	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Protactinium-231	0.389	U	0.387	0.389	2.31	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Radium-226	0.510		0.161	0.170	0.180	pCi/g	08/27/15 10:28	09/17/15 10:19	1

Client Sample ID: RXR11B/-9.9--10.4/17082015

Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11

Matrix: Solid
Percent Solids: 64.1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.522**		0.197	0.204	0.365	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Thallium-208	**0.261**		0.0780	0.0826	0.0824	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Thorium-234	0.715	U	0.516	0.521	1.58	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Uranium-235	0.225	U	0.247	0.248	0.422	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Uranium-238	0.715	U	0.516	0.521	1.58	pCi/g	08/27/15 10:28	09/17/15 10:19	1
Protactinium-234m	2.59	U	5.66	5.67	10.9	pCi/g	08/27/15 10:28	09/17/15 10:19	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.917**		0.200	0.214	0.0949	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.999**		0.206	0.222	0.0547	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.763**		0.179	0.190	0.0477	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*89.7*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.710**		0.178	0.188	0.0833	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0330	U	0.0477	0.0478	0.0770	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.811**		0.191	0.203	0.0909	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*86.1*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.032**		0.254	0.266	0.365	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR11C/-10.4--10.9/17082015

Date Collected: 08/17/15 11:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-12

Matrix: Solid
Percent Solids: 84.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.2	U	5.2	0.69	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,1-Dichloroethene	5.2	U	5.2	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Acetone	**96**		5.2	4.3	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Methylene Chloride	5.2	U	5.2	0.58	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
trans-1,2-Dichloroethene	5.2	U	5.2	0.086	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Methyl tert-butyl ether	5.2	U	5.2	0.35	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,3-Dichlorobenzene	5.2	U *	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1

Client Sample ID: RXR11C/-10.4--10.9/17082015
Date Collected: 08/17/15 11:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-12
Matrix: Solid
Percent Solids: 84.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	5.2	U	5.2	0.47	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
cis-1,2-Dichloroethene	5.2	U	5.2	0.45	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
2-Butanone (MEK)	**41**		5.2	2.3	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Chloroform	5.2	U	5.2	0.46	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,1,1-Trichloroethane	5.2	U	5.2	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Carbon tetrachloride	5.2	U	5.2	0.056	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Benzene	5.2	U	5.2	0.45	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,2-Dichloroethane	5.2	U	5.2	0.90	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Trichloroethene	5.2	U	5.2	0.59	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,4-Dioxane	100	U	100	15	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Toluene	**1.3**	**J ***	5.2	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Tetrachloroethene	5.2	U *	5.2	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Chlorobenzene	5.2	U *	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Ethylbenzene	5.2	U *	5.2	0.071	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
m-Xylene & p-Xylene	5.2	U *	5.2	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
o-Xylene	5.2	U *	5.2	0.055	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
Xylenes, Total	10	U *	10	0.055	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
N-Propylbenzene	5.2	U *	5.2	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,3,5-Trimethylbenzene	5.2	U *	5.2	0.23	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
tert-Butylbenzene	5.2	U *	5.2	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,2,4-Trimethylbenzene	5.2	U *	5.2	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
sec-Butylbenzene	5.2	U *	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,4-Dichlorobenzene	5.2	U *	5.2	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
1,2-Dichlorobenzene	5.2	U *	5.2	0.14	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1
n-Butylbenzene	5.2	U *	5.2	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*35 - 145*	*08/18/15 14:50*	*08/27/15 12:36*	*1*
Toluene-d8 (Surr)	*124*		*40 - 175*	*08/18/15 14:50*	*08/27/15 12:36*	*1*
4-Bromofluorobenzene	*153*		*30 - 200*	*08/18/15 14:50*	*08/27/15 12:36*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*08/18/15 14:50*	*08/27/15 12:36*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.6	U H	4.6	0.61	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,1-Dichloroethene	4.6	U H	4.6	0.26	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Acetone	**78**	**H**	4.6	3.8	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Methylene Chloride	4.6	U H	4.6	0.52	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
trans-1,2-Dichloroethene	4.6	U H	4.6	0.077	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Methyl tert-butyl ether	4.6	U H	4.6	0.32	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,3-Dichlorobenzene	4.6	U H *	4.6	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,1-Dichloroethane	4.6	U H	4.6	0.42	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
cis-1,2-Dichloroethene	4.6	U H	4.6	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
2-Butanone (MEK)	**33**	**H**	4.6	2.0	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Chloroform	4.6	U H	4.6	0.41	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,1,1-Trichloroethane	4.6	U H	4.6	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Carbon tetrachloride	4.6	U H	4.6	0.050	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Benzene	**0.42**	**J H**	4.6	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,2-Dichloroethane	4.6	U H	4.6	0.81	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Trichloroethene	4.6	U H	4.6	0.53	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1

Client Sample ID: RXR11C/-10.4--10.9/17082015
Date Collected: 08/17/15 11:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-12
Matrix: Solid
Percent Solids: 84.1

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	93	U H	93	13	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Toluene	**1.3**	**J H**	4.6	0.18	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Tetrachloroethene	**0.36**	**J H**	4.6	0.27	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Chlorobenzene	4.6	U H	4.6	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Ethylbenzene	4.6	U H	4.6	0.063	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
m-Xylene & p-Xylene	4.6	U H	4.6	0.35	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
o-Xylene	**0.43**	**J H**	4.6	0.049	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
Xylenes, Total	**0.43**	**J H**	9.3	0.049	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
N-Propylbenzene	4.6	U H *	4.6	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,3,5-Trimethylbenzene	4.6	U H *	4.6	0.20	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
tert-Butylbenzene	4.6	U H *	4.6	0.23	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,2,4-Trimethylbenzene	4.6	U H *	4.6	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
sec-Butylbenzene	4.6	U H *	4.6	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,4-Dichlorobenzene	4.6	U H *	4.6	0.35	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
1,2-Dichlorobenzene	**0.62**	**J H * B**	4.6	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1
n-Butylbenzene	4.6	U H *	4.6	0.24	ug/Kg	☼	08/27/15 15:18	09/08/15 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/27/15 15:18*	*09/08/15 13:56*	*1*
Toluene-d8 (Surr)	*129*		*40 - 175*	*08/27/15 15:18*	*09/08/15 13:56*	*1*
4-Bromofluorobenzene	*164*		*30 - 200*	*08/27/15 15:18*	*09/08/15 13:56*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/27/15 15:18*	*09/08/15 13:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	780	U	780	26	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
2-Methylphenol	780	U	780	34	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
3 & 4 Methylphenol	**51**	**J**	780	21	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Naphthalene	**85**	**J**	780	20	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
2-Methylnaphthalene	**36**	**J**	780	17	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
2-Chloronaphthalene	780	U	780	18	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Acenaphthylene	**23**	**J**	780	20	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Acenaphthene	**78**	**J**	780	19	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Dibenzofuran	**64**	**J**	780	24	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Fluorene	**97**	**J**	780	17	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Hexachlorobenzene	78	U	78	32	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Pentachlorophenol	630	U	630	95	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Phenanthrene	**740**	**J**	780	21	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Anthracene	**200**	**J**	780	74	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Fluoranthene	**1600**		780	23	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Pyrene	**2500**		780	35	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Benzo[a]anthracene	**980**		78	65	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Chrysene	**1100**		780	21	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Benzo[b]fluoranthene	**1400**		78	30	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Benzo[k]fluoranthene	**540**		78	34	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Benzo[a]pyrene	**960**		78	24	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Indeno[1,2,3-cd]pyrene	**980**		78	52	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Dibenz(a,h)anthracene	**240**		78	41	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2
Benzo[g,h,i]perylene	**880**		780	45	ug/Kg	☼	08/28/15 13:08	09/02/15 03:47	2

Client Sample ID: RXR11C/-10.4--10.9/17082015
Date Collected: 08/17/15 11:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-12
Matrix: Solid
Percent Solids: 84.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*62*		*28 - 92*	*08/28/15 13:08*	*09/02/15 03:47*	*2*
2-Fluorobiphenyl	*63*		*27 - 84*	*08/28/15 13:08*	*09/02/15 03:47*	*2*
Terphenyl-d14 (Surr)	*76*		*16 - 114*	*08/28/15 13:08*	*09/02/15 03:47*	*2*
2,4,6-Tribromophenol (Surr)	*49*		*10 - 95*	*08/28/15 13:08*	*09/02/15 03:47*	*2*
2-Fluorophenol (Surr)	*53*		*21 - 84*	*08/28/15 13:08*	*09/02/15 03:47*	*2*
Phenol-d5 (Surr)	*55*		*22 - 88*	*08/28/15 13:08*	*09/02/15 03:47*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.4	U	2.4	0.72	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
gamma-BHC (Lindane)	2.4	U	2.4	0.71	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
beta-BHC	2.4	U	2.4	0.77	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
delta-BHC	2.4	U	2.4	0.87	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Heptachlor	8.0	U	8.0	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Aldrin	8.0	U	8.0	0.96	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
gamma-Chlordane	8.0	U	8.0	1.7	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
alpha-Chlordane	8.0	U	8.0	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
4,4'-DDE	8.0	U	8.0	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Endosulfan I	8.0	U	8.0	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Dieldrin	2.4	U	2.4	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Endrin	8.0	U	8.0	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
4,4'-DDD	8.0	U	8.0	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Endosulfan II	8.0	U	8.0	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
4,4'-DDT	8.0	U *	8.0	0.82	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Endosulfan sulfate	8.0	U	8.0	0.93	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Chlordane (technical)	80	U	80	35	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1
Mirex	8.0	U	8.0	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*122*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:45*	*1*
Tetrachloro-m-xylene	*124*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:45*	*1*
DCB Decachlorobiphenyl	*125*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:45*	*1*
DCB Decachlorobiphenyl	*122*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1221	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1232	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1242	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1248	21	U	21	1.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1254	**53**	**p**	21	3.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1
PCB-1260	21	U	21	3.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*69*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:03*	*1*
Tetrachloro-m-xylene	*66*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:03*	*1*
DCB Decachlorobiphenyl	*40*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 14:03*	*1*
DCB Decachlorobiphenyl	*46*		*45 - 125*	*08/25/15 11:13*	*09/21/15 14:03*	*1*

Client Sample ID: RXR11C/-10.4--10.9/17082015

Date Collected: 08/17/15 11:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-12

Matrix: Solid
Percent Solids: 84.1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	20	U	20	14	ug/Kg	☼	08/27/15 11:12	09/01/15 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*270*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:06*	*1*
2,4-Dichlorophenylacetic acid	*194*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**13.3**		2.2	0.39	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Arsenic	**7.3**		3.3	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Barium	**14.8**	**J**	44.4	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Beryllium	0.44	U	0.44	0.38	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Cadmium	**2.5**		0.89	0.46	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Chromium	**13.4**		2.2	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Copper	**84.4**		5.6	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Manganese	**102**		3.3	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Nickel	**13.5**		8.9	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Lead	**77.2**		2.2	0.87	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Selenium	4.4	U	4.4	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4
Zinc	**92.1**		6.7	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:06	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.020	0.014	mg/Kg	☼	09/12/15 12:44	09/12/15 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.4	U	2.4	0.99	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	2.4	U	2.4	0.96	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**13.4**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.10**	**J**	0.11	0.018	mg/Kg	☼	08/27/15 15:00	08/27/15 18:01	1
Percent Solids	**84.1**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.396**		0.127	0.133	0.0779	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Bismuth-212	0.137	U	0.381	0.381	0.679	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Bismuth-214	**0.324**		0.116	0.120	0.139	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Lead-210	0.631	U	0.968	0.971	1.62	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Lead-212	**0.479**		0.0925	0.111	0.0783	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Lead-214	**0.525**		0.116	0.128	0.0956	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Potassium-40	**5.10**		0.950	1.08	0.632	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Protactinium-231	0.471	U	0.521	0.523	1.59	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Radium-226	**0.324**		0.116	0.120	0.139	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Radium-228	**0.396**		0.127	0.133	0.0779	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Thallium-208	**0.152**		0.0549	0.0571	0.0538	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Thorium-234	0.635	U	0.761	0.764	1.25	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Uranium-235	0.123	U	0.139	0.139	0.268	pCi/g	08/27/15 10:35	09/17/15 07:39	1
Uranium-238	0.635	U	0.761	0.764	1.25	pCi/g	08/27/15 10:35	09/17/15 07:39	1

Client Sample ID: RXR11C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-12
Date Collected: 08/17/15 11:40
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 84.1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Protactinium-234m	-1.28	U	4.96	4.96	8.90	pCi/g	08/27/15 10:35	09/17/15 07:39	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.718**		0.173	0.183	0.0839	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.694**		0.168	0.178	0.0611	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.673**		0.164	0.174	0.0546	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*93.6*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.601**		0.170	0.177	0.115	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0308	U	0.0484	0.0485	0.0834	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.793**		0.193	0.205	0.118	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*85.9*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.720**		0.172	0.179	0.139	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR10B/-9.9--10.4/17082015

Lab Sample ID: 200-29316-13
Date Collected: 08/17/15 11:50
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.2	U	5.2	0.69	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,1-Dichloroethene	5.2	U	5.2	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Acetone	**81**		5.2	4.3	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Methylene Chloride	5.2	U	5.2	0.58	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
trans-1,2-Dichloroethene	5.2	U	5.2	0.086	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Methyl tert-butyl ether	5.2	U	5.2	0.35	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,3-Dichlorobenzene	5.2	U *	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,1-Dichloroethane	5.2	U	5.2	0.47	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
cis-1,2-Dichloroethene	5.2	U	5.2	0.45	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
2-Butanone (MEK)	**33**		5.2	2.3	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Chloroform	5.2	U	5.2	0.46	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,1,1-Trichloroethane	5.2	U	5.2	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1

Client Sample ID: RXR10B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13
Matrix: Solid
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	5.2	U	5.2	0.056	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Benzene	5.2	U	5.2	0.45	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,2-Dichloroethane	5.2	U	5.2	0.90	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Trichloroethene	5.2	U	5.2	0.59	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,4-Dioxane	100	U	100	15	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Toluene	**0.46**	**J**	5.2	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Tetrachloroethene	5.2	U	5.2	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Chlorobenzene	5.2	U	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Ethylbenzene	5.2	U	5.2	0.071	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
m-Xylene & p-Xylene	5.2	U	5.2	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
o-Xylene	5.2	U	5.2	0.055	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
Xylenes, Total	10	U	10	0.055	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
N-Propylbenzene	5.2	U *	5.2	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,3,5-Trimethylbenzene	5.2	U *	5.2	0.23	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
tert-Butylbenzene	5.2	U *	5.2	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,2,4-Trimethylbenzene	5.2	U *	5.2	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
sec-Butylbenzene	5.2	U *	5.2	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,4-Dichlorobenzene	5.2	U *	5.2	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
1,2-Dichlorobenzene	5.2	U *	5.2	0.14	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1
n-Butylbenzene	5.2	U *	5.2	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/18/15 14:50*	*08/27/15 13:07*	*1*
Toluene-d8 (Surr)	*133*		*40 - 175*	*08/18/15 14:50*	*08/27/15 13:07*	*1*
4-Bromofluorobenzene	*166*		*30 - 200*	*08/18/15 14:50*	*08/27/15 13:07*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/18/15 14:50*	*08/27/15 13:07*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.9	U H *	5.9	0.77	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,1-Dichloroethene	5.9	U H *	5.9	0.33	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Acetone	**3500**	**H E ***	5.9	4.8	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Methylene Chloride	**1.3**	**J H ***	5.9	0.66	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
trans-1,2-Dichloroethene	5.9	U H *	5.9	0.097	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Methyl tert-butyl ether	5.9	U H *	5.9	0.40	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,3-Dichlorobenzene	5.9	U H *	5.9	0.13	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,1-Dichloroethane	5.9	U H *	5.9	0.53	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
cis-1,2-Dichloroethene	5.9	U H *	5.9	0.50	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
2-Butanone (MEK)	**1500**	**H E ***	5.9	2.6	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Chloroform	5.9	U H *	5.9	0.52	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,1,1-Trichloroethane	5.9	U H *	5.9	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Carbon tetrachloride	5.9	U H *	5.9	0.063	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Benzene	5.9	U H *	5.9	0.50	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,2-Dichloroethane	5.9	U H *	5.9	1.0	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Trichloroethene	5.9	U H *	5.9	0.67	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,4-Dioxane	120	U H	120	16	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Toluene	**2.5**	**J H ***	5.9	0.22	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Tetrachloroethene	**0.61**	**J H ***	5.9	0.34	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Chlorobenzene	5.9	U H *	5.9	0.13	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Ethylbenzene	5.9	U H *	5.9	0.080	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1

Client Sample ID: RXR10B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13
Matrix: Solid
Percent Solids: 71.0

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**1.5**	**J H ***	5.9	0.45	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
o-Xylene	5.9	U H *	5.9	0.062	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
Xylenes, Total	**1.5**	**J H ***	12	0.062	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
N-Propylbenzene	5.9	U H *	5.9	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,3,5-Trimethylbenzene	5.9	U H *	5.9	0.26	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
tert-Butylbenzene	5.9	U H *	5.9	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,2,4-Trimethylbenzene	5.9	U H *	5.9	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
sec-Butylbenzene	5.9	U H *	5.9	0.13	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,4-Dichlorobenzene	5.9	U H *	5.9	0.45	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
1,2-Dichlorobenzene	5.9	U H *	5.9	0.15	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1
n-Butylbenzene	5.9	U H *	5.9	0.30	ug/Kg	☼	08/27/15 15:18	09/08/15 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*35 - 145*	*08/27/15 15:18*	*09/08/15 14:27*	*1*
Toluene-d8 (Surr)	*143*		*40 - 175*	*08/27/15 15:18*	*09/08/15 14:27*	*1*
4-Bromofluorobenzene	*154*		*30 - 200*	*08/27/15 15:18*	*09/08/15 14:27*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*08/27/15 15:18*	*09/08/15 14:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	930	U	930	30	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
2-Methylphenol	930	U	930	40	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
3 & 4 Methylphenol	930	U	930	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Naphthalene	**46**	**J**	930	24	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
2-Methylnaphthalene	**25**	**J**	930	20	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
2-Chloronaphthalene	930	U	930	21	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Acenaphthylene	**28**	**J**	930	24	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Acenaphthene	**39**	**J**	930	22	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Dibenzofuran	**32**	**J**	930	28	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Fluorene	**46**	**J**	930	20	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Hexachlorobenzene	93	U	93	38	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Pentachlorophenol	750	U	750	110	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Phenanthrene	**540**	**J**	930	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Anthracene	**130**	**J**	930	88	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Fluoranthene	**1100**		930	27	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Pyrene	**1700**		930	42	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Benzo[a]anthracene	**760**		93	77	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Chrysene	**980**		930	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Benzo[b]fluoranthene	**1400**		93	36	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Benzo[k]fluoranthene	**550**		93	40	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Benzo[a]pyrene	**910**		93	28	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Indeno[1,2,3-cd]pyrene	**990**		93	62	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Dibenz(a,h)anthracene	**240**		93	48	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2
Benzo[g,h,i]perylene	**840**	**J**	930	53	ug/Kg	☼	08/28/15 13:08	09/02/15 04:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*28 - 92*	*08/28/15 13:08*	*09/02/15 04:10*	*2*
2-Fluorobiphenyl	*74*		*27 - 84*	*08/28/15 13:08*	*09/02/15 04:10*	*2*
Terphenyl-d14 (Surr)	*73*		*16 - 114*	*08/28/15 13:08*	*09/02/15 04:10*	*2*
2,4,6-Tribromophenol (Surr)	*54*		*10 - 95*	*08/28/15 13:08*	*09/02/15 04:10*	*2*

Client Sample ID: RXR10B/-9.9--10.4/17082015
Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13
Matrix: Solid
Percent Solids: 71.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*59*		*21 - 84*	*08/28/15 13:08*	*09/02/15 04:10*	*2*
Phenol-d5 (Surr)	*61*		*22 - 88*	*08/28/15 13:08*	*09/02/15 04:10*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.8	U	2.8	0.86	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
gamma-BHC (Lindane)	2.8	U	2.8	0.85	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
beta-BHC	2.8	U	2.8	0.92	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
delta-BHC	2.8	U	2.8	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Heptachlor	9.4	U	9.4	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Aldrin	9.4	U	9.4	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
gamma-Chlordane	9.4	U	9.4	2.0	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
alpha-Chlordane	9.4	U	9.4	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
4,4'-DDE	9.4	U	9.4	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Endosulfan I	9.4	U	9.4	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Dieldrin	2.8	U	2.8	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Endrin	9.4	U	9.4	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
4,4'-DDD	9.4	U	9.4	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Endosulfan II	9.4	U	9.4	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
4,4'-DDT	9.4	U *	9.4	0.97	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Endosulfan sulfate	9.4	U	9.4	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Chlordane (technical)	94	U	94	42	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1
Mirex	9.4	U	9.4	1.8	ug/Kg	☼	08/28/15 07:02	08/31/15 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*118*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:58*	*1*
Tetrachloro-m-xylene	*126*		*55 - 139*	*08/28/15 07:02*	*08/31/15 22:58*	*1*
DCB Decachlorobiphenyl	*126*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:58*	*1*
DCB Decachlorobiphenyl	*123*		*55 - 148*	*08/28/15 07:02*	*08/31/15 22:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	49	U	49	4.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1221	49	U	49	4.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1232	49	U	49	4.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1242	**500**	**p**	49	4.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1248	49	U	49	4.0	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1254	**510**		49	7.2	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2
PCB-1260	49	U	49	7.2	ug/Kg	☼	08/25/15 11:13	09/22/15 14:33	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*52*		*30 - 130*	*08/25/15 11:13*	*09/22/15 14:33*	*2*
Tetrachloro-m-xylene	*50*		*30 - 130*	*08/25/15 11:13*	*09/22/15 14:33*	*2*
DCB Decachlorobiphenyl	*48*		*45 - 125*	*08/25/15 11:13*	*09/22/15 14:33*	*2*
DCB Decachlorobiphenyl	*44*	*X*	*45 - 125*	*08/25/15 11:13*	*09/22/15 14:33*	*2*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	24	U	24	16	ug/Kg	☼	08/27/15 11:12	09/01/15 23:20	1

Client Sample ID: RXR10B/-9.9--10.4/17082015

Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13

Matrix: Solid
Percent Solids: 71.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	460	X	83 - 150	08/27/15 11:12	09/01/15 23:20	1
2,4-Dichlorophenylacetic acid	327	X	83 - 150	08/27/15 11:12	09/01/15 23:20	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**9.5**		2.7	0.48	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Arsenic	**15.4**		4.1	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Barium	**25.1**	**J**	54.2	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Beryllium	0.54	U	0.54	0.46	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Cadmium	**2.2**		1.1	0.57	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Chromium	**24.6**		2.7	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Copper	**122**		6.8	1.8	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Manganese	**154**		4.1	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Nickel	**23.5**		10.8	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Lead	**97.8**		2.7	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Selenium	**2.0**	**J**	5.4	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4
Zinc	**179**		8.1	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:09	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.024	0.017	mg/Kg	☼	09/12/15 12:44	09/12/15 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.8	U	2.8	1.1	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	2.9	U	2.9	1.2	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**24.6**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	**0.29**		0.14	0.023	mg/Kg	☼	08/27/15 15:00	08/27/15 18:02	1
Percent Solids	**71.0**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.277**		0.122	0.126	0.233	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Bismuth-212	0.199	U	0.431	0.431	0.761	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Bismuth-214	**0.266**		0.0856	0.0900	0.0814	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Lead-210	1.08	U	0.955	0.964	1.52	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Lead-212	**0.220**		0.0847	0.0894	0.121	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Lead-214	**0.376**		0.101	0.109	0.0728	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Potassium-40	**5.35**		1.18	1.30	0.824	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Protactinium-231	-0.00708	U	0.0855	0.0855	1.77	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Radium-226	**0.266**		0.0856	0.0900	0.0814	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Radium-228	**0.277**		0.122	0.126	0.233	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Thallium-208	0.0448	U	0.0625	0.0627	0.0912	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Thorium-234	1.02	U	1.10	1.10	1.48	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Uranium-235	-0.0648	U	2.38	2.38	0.333	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Uranium-238	1.02	U	1.10	1.10	1.48	pCi/g	08/27/15 10:35	09/17/15 07:41	1
Protactinium-234m	-0.138	U	0.187	0.188	12.0	pCi/g	08/27/15 10:35	09/17/15 07:41	1

Client Sample ID: RXR10B/-9.9--10.4/17082015

Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13

Matrix: Solid
Percent Solids: 71.0

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.708**		0.172	0.182	0.0860	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.586**		0.154	0.162	0.0571	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.454**		0.136	0.141	0.0568	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*96.9*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.588**		0.167	0.175	0.0878	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0259	U	0.0407	0.0408	0.0650	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.473**		0.151	0.156	0.0876	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*87.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.543**		0.149	0.155	0.233	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR9B/-9.9--10.4/17082015

Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15

Matrix: Solid
Percent Solids: 70.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.8	U	5.8	0.77	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,1-Dichloroethene	5.8	U	5.8	0.32	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Acetone	**57**		5.8	4.8	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Methylene Chloride	**0.83**	**J B**	5.8	0.65	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
trans-1,2-Dichloroethene	5.8	U	5.8	0.096	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Methyl tert-butyl ether	5.8	U	5.8	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,3-Dichlorobenzene	5.8	U *	5.8	0.13	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,1-Dichloroethane	5.8	U	5.8	0.52	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
cis-1,2-Dichloroethene	5.8	U	5.8	0.50	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
2-Butanone (MEK)	**24**		5.8	2.6	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Chloroform	5.8	U	5.8	0.51	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,1,1-Trichloroethane	5.8	U	5.8	0.36	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Carbon tetrachloride	5.8	U	5.8	0.063	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Benzene	5.8	U	5.8	0.50	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,2-Dichloroethane	5.8	U	5.8	1.0	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Trichloroethene	5.8	U	5.8	0.66	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,4-Dioxane	120	U	120	16	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Toluene	**2.3**	**J**	5.8	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1

Client Sample ID: RXR9B/-9.9--10.4/17082015
Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15
Matrix: Solid
Percent Solids: 70.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.52**	**J**	5.8	0.34	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Chlorobenzene	5.8	U	5.8	0.13	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Ethylbenzene	**0.69**	**J**	5.8	0.079	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
m-Xylene & p-Xylene	**0.72**	**J**	5.8	0.44	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
o-Xylene	**1.1**	**J**	5.8	0.062	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
Xylenes, Total	**1.8**	**J**	12	0.062	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
N-Propylbenzene	5.8	U *	5.8	0.36	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,3,5-Trimethylbenzene	**0.37**	**J ***	5.8	0.26	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
tert-Butylbenzene	5.8	U *	5.8	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,2,4-Trimethylbenzene	5.8	U *	5.8	0.14	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
sec-Butylbenzene	**0.24**	**J ***	5.8	0.13	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,4-Dichlorobenzene	**0.98**	**J ***	5.8	0.44	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
1,2-Dichlorobenzene	5.8	U *	5.8	0.15	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1
n-Butylbenzene	5.8	U *	5.8	0.30	ug/Kg	☼	08/18/15 14:50	08/27/15 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*08/18/15 14:50*	*08/27/15 13:38*	*1*
Toluene-d8 (Surr)	*115*		*40 - 175*	*08/18/15 14:50*	*08/27/15 13:38*	*1*
4-Bromofluorobenzene	*141*		*30 - 200*	*08/18/15 14:50*	*08/27/15 13:38*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*08/18/15 14:50*	*08/27/15 13:38*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.3	U H *	6.3	0.83	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,1-Dichloroethene	6.3	U H *	6.3	0.35	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Acetone	**300**	**H ***	6.3	5.1	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Methylene Chloride	**1.9**	**J H ***	6.3	0.70	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
trans-1,2-Dichloroethene	6.3	U H *	6.3	0.10	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Methyl tert-butyl ether	6.3	U H *	6.3	0.43	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,3-Dichlorobenzene	6.3	U H *	6.3	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,1-Dichloroethane	6.3	U H *	6.3	0.56	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
cis-1,2-Dichloroethene	6.3	U H *	6.3	0.54	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
2-Butanone (MEK)	**120**	**H ***	6.3	2.8	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Chloroform	6.3	U H *	6.3	0.55	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,1,1-Trichloroethane	6.3	U H *	6.3	0.39	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Carbon tetrachloride	6.3	U H *	6.3	0.068	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Benzene	**1.1**	**J H ***	6.3	0.54	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,2-Dichloroethane	6.3	U H *	6.3	1.1	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Trichloroethene	6.3	U H *	6.3	0.71	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,4-Dioxane	130	U H	130	18	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Toluene	**3.8**	**J H ***	6.3	0.24	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Tetrachloroethene	**0.69**	**J H ***	6.3	0.36	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Chlorobenzene	6.3	U H *	6.3	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Ethylbenzene	**0.93**	**J H ***	6.3	0.085	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
m-Xylene & p-Xylene	**2.2**	**J H ***	6.3	0.48	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
o-Xylene	**2.2**	**J H ***	6.3	0.066	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
Xylenes, Total	**4.4**	**J H ***	13	0.066	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
N-Propylbenzene	6.3	U H *	6.3	0.39	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,3,5-Trimethylbenzene	**2.2**	**J H ***	6.3	0.28	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
tert-Butylbenzene	6.3	U H *	6.3	0.31	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1

Client Sample ID: RXR9B/-9.9--10.4/17082015
Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15
Matrix: Solid
Percent Solids: 70.4

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**4.4**	**J H ***	6.3	0.15	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
sec-Butylbenzene	6.3	U H *	6.3	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,4-Dichlorobenzene	6.3	U H *	6.3	0.48	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
1,2-Dichlorobenzene	6.3	U H *	6.3	0.16	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1
n-Butylbenzene	6.3	U H *	6.3	0.33	ug/Kg	☼	08/27/15 15:18	09/08/15 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*132*		*35 - 145*	*08/27/15 15:18*	*09/08/15 14:58*	*1*
Toluene-d8 (Surr)	*107*		*40 - 175*	*08/27/15 15:18*	*09/08/15 14:58*	*1*
4-Bromofluorobenzene	*127*		*30 - 200*	*08/27/15 15:18*	*09/08/15 14:58*	*1*
Dibromofluoromethane (Surr)	*130*		*50 - 150*	*08/27/15 15:18*	*09/08/15 14:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	940	U	940	31	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
2-Methylphenol	940	U	940	41	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
3 & 4 Methylphenol	**35**	**J**	940	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Naphthalene	**94**	**J**	940	24	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
2-Methylnaphthalene	**37**	**J**	940	21	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
2-Chloronaphthalene	940	U	940	21	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Acenaphthylene	**37**	**J**	940	24	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Acenaphthene	**140**	**J**	940	23	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Dibenzofuran	**57**	**J**	940	28	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Fluorene	**130**	**J**	940	20	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Hexachlorobenzene	94	U	94	38	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Pentachlorophenol	760	U	760	110	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Phenanthrene	**1000**		940	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Anthracene	**300**	**J**	940	89	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Fluoranthene	**2200**		940	28	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Pyrene	**2600**		940	43	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Benzo[a]anthracene	**1200**		94	78	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Chrysene	**1500**		940	26	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Benzo[b]fluoranthene	**1900**		94	37	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Benzo[k]fluoranthene	**600**		94	41	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Benzo[a]pyrene	**1200**		94	28	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Indeno[1,2,3-cd]pyrene	**1100**		94	62	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Dibenz(a,h)anthracene	**300**		94	49	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2
Benzo[g,h,i]perylene	**960**		940	54	ug/Kg	☼	08/28/15 13:08	09/02/15 04:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*65*		*28 - 92*	*08/28/15 13:08*	*09/02/15 04:33*	*2*
2-Fluorobiphenyl	*70*		*27 - 84*	*08/28/15 13:08*	*09/02/15 04:33*	*2*
Terphenyl-d14 (Surr)	*68*		*16 - 114*	*08/28/15 13:08*	*09/02/15 04:33*	*2*
2,4,6-Tribromophenol (Surr)	*47*		*10 - 95*	*08/28/15 13:08*	*09/02/15 04:33*	*2*
2-Fluorophenol (Surr)	*56*		*21 - 84*	*08/28/15 13:08*	*09/02/15 04:33*	*2*
Phenol-d5 (Surr)	*57*		*22 - 88*	*08/28/15 13:08*	*09/02/15 04:33*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.8	U	2.8	0.87	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1

Client Sample ID: RXR9B/-9.9--10.4/17082015
Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15
Matrix: Solid
Percent Solids: 70.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	2.8	U	2.8	0.85	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
beta-BHC	2.8	U	2.8	0.92	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
delta-BHC	2.8	U	2.8	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Heptachlor	9.5	U	9.5	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Aldrin	9.5	U	9.5	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
gamma-Chlordane	9.5	U	9.5	2.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
alpha-Chlordane	9.5	U	9.5	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
4,4'-DDE	9.5	U	9.5	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Endosulfan I	9.5	U	9.5	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Dieldrin	2.8	U	2.8	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Endrin	9.5	U	9.5	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
4,4'-DDD	9.5	U	9.5	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Endosulfan II	9.5	U	9.5	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
4,4'-DDT	9.5	U *	9.5	0.98	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Endosulfan sulfate	9.5	U	9.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Chlordane (technical)	95	U	95	42	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1
Mirex	9.5	U	9.5	1.8	ug/Kg	☼	08/28/15 07:02	08/31/15 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:10*	*1*
Tetrachloro-m-xylene	*124*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:10*	*1*
DCB Decachlorobiphenyl	*124*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:10*	*1*
DCB Decachlorobiphenyl	*121*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:10*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	25	U	25	2.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1221	25	U	25	2.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1232	25	U	25	2.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1242	25	U	25	2.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1248	25	U	25	2.1	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1254	**120**	**p**	25	3.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1
PCB-1260	25	U	25	3.7	ug/Kg	☼	08/25/15 11:13	09/21/15 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:36*	*1*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:36*	*1*
DCB Decachlorobiphenyl	*38*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 14:36*	*1*
DCB Decachlorobiphenyl	*40*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 14:36*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	24	U	24	16	ug/Kg	☼	08/27/15 11:12	09/01/15 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*348*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:35*	*1*
2,4-Dichlorophenylacetic acid	*262*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**6.2**		2.8	0.49	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4

Client Sample ID: RXR9B/-9.9--10.4/17082015

Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15

Matrix: Solid
Percent Solids: 70.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		4.2	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Barium	**10.6**	**J**	55.7	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Beryllium	0.56	U	0.56	0.47	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Cadmium	**1.1**		1.1	0.58	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Chromium	**18.0**		2.8	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Copper	**52.0**		7.0	1.8	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Manganese	**362**		4.2	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Nickel	**11.1**		11.1	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Lead	**40.4**		2.8	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Selenium	5.6	U	5.6	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4
Zinc	**58.5**		8.4	2.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:13	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.024	0.017	mg/Kg	☼	09/12/15 12:44	09/12/15 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.8	U	2.8	1.1	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	2.9	U	2.9	1.2	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	**18.0**		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	0.15	U	0.15	0.024	mg/Kg	☼	08/27/15 15:00	08/27/15 18:03	1
Percent Solids	**70.4**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.391**		0.133	0.139	0.243	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Bismuth-212	0.457	U	0.428	0.431	0.665	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Bismuth-214	**0.354**		0.0875	0.0949	0.0759	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Lead-210	1.03	U	0.977	0.985	1.30	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Lead-212	**0.428**		0.102	0.116	0.0935	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Lead-214	**0.403**		0.0882	0.0977	0.104	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Potassium-40	**9.84**		1.30	1.65	0.631	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Protactinium-231	0.166	U	0.278	0.278	1.55	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Radium-226	**0.354**		0.0875	0.0949	0.0759	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Radium-228	**0.391**		0.133	0.139	0.243	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Thallium-208	**0.161**		0.0512	0.0539	0.0479	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Thorium-234	0.534	U	0.312	0.317	1.27	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Uranium-235	0.161	U	0.161	0.162	0.298	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Uranium-238	0.534	U	0.312	0.317	1.27	pCi/g	08/27/15 10:35	09/17/15 08:14	1
Protactinium-234m	1.50	U	3.67	3.67	7.37	pCi/g	08/27/15 10:35	09/17/15 08:14	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.885**		0.189	0.203	0.0781	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.715**		0.169	0.180	0.0698	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Client Sample ID: RXR9B/-9.9--10.4/17082015

Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15

Matrix: Solid
Percent Solids: 70.4

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-232	**0.681**		0.164	0.173	0.0508	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*98.3*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.855**		0.201	0.214	0.119	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.00344	U	0.0294	0.0294	0.0840	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.701**		0.185	0.194	0.125	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.745**		0.159	0.168	0.243	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR9C/-10.4--10.9/17082015

Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16

Matrix: Solid
Percent Solids: 68.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	9.1	U	9.1	1.2	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,1-Dichloroethene	9.1	U	9.1	0.51	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Acetone	**120**		9.1	7.5	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Methylene Chloride	9.1	U	9.1	1.0	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
trans-1,2-Dichloroethene	9.1	U	9.1	0.15	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Methyl tert-butyl ether	9.1	U	9.1	0.62	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,3-Dichlorobenzene	9.1	U *	9.1	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,1-Dichloroethane	9.1	U	9.1	0.82	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
cis-1,2-Dichloroethene	9.1	U	9.1	0.78	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
2-Butanone (MEK)	**49**		9.1	4.0	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Chloroform	9.1	U	9.1	0.80	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,1,1-Trichloroethane	9.1	U	9.1	0.57	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Carbon tetrachloride	9.1	U	9.1	0.099	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Benzene	**1.1**	**J**	9.1	0.78	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,2-Dichloroethane	9.1	U	9.1	1.6	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Trichloroethene	9.1	U	9.1	1.0	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,4-Dioxane	180	U	180	26	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Toluene	**4.9**	**J**	9.1	0.35	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Tetrachloroethene	9.1	U	9.1	0.53	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Chlorobenzene	9.1	U	9.1	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1

Client Sample ID: RXR9C/-10.4--10.9/17082015
Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16
Matrix: Solid
Percent Solids: 68.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**1.5**	**J**	9.1	0.12	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
m-Xylene & p-Xylene	**2.4**	**J**	9.1	0.69	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
o-Xylene	**3.1**	**J**	9.1	0.097	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
Xylenes, Total	**5.5**	**J**	18	0.097	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
N-Propylbenzene	**1.3**	**J ***	9.1	0.57	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,3,5-Trimethylbenzene	**1.9**	**J ***	9.1	0.40	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
tert-Butylbenzene	9.1	U *	9.1	0.46	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,2,4-Trimethylbenzene	**6.2**	**J ***	9.1	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
sec-Butylbenzene	**0.76**	**J ***	9.1	0.20	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,4-Dichlorobenzene	**2.9**	**J ***	9.1	0.69	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
1,2-Dichlorobenzene	9.1	U *	9.1	0.24	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1
n-Butylbenzene	9.1	U *	9.1	0.47	ug/Kg	☼	08/18/15 14:50	08/27/15 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*35 - 145*	*08/18/15 14:50*	*08/27/15 14:09*	*1*
Toluene-d8 (Surr)	*128*		*40 - 175*	*08/18/15 14:50*	*08/27/15 14:09*	*1*
4-Bromofluorobenzene	*170*		*30 - 200*	*08/18/15 14:50*	*08/27/15 14:09*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/18/15 14:50*	*08/27/15 14:09*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	8.3	U H	8.3	1.1	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,1-Dichloroethene	8.3	U H	8.3	0.47	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Acetone	**510**	**H ***	8.3	6.8	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Methylene Chloride	8.3	U H	8.3	0.93	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
trans-1,2-Dichloroethene	8.3	U H	8.3	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Methyl tert-butyl ether	8.3	U H	8.3	0.57	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,3-Dichlorobenzene	**2.4**	**J H B ***	8.3	0.18	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,1-Dichloroethane	8.3	U H	8.3	0.75	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
cis-1,2-Dichloroethene	8.3	U H	8.3	0.72	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
2-Butanone (MEK)	**210**	**H ***	8.3	3.7	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Chloroform	8.3	U H	8.3	0.73	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,1,1-Trichloroethane	8.3	U H	8.3	0.52	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Carbon tetrachloride	8.3	U H	8.3	0.090	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Benzene	**1.2**	**J H**	8.3	0.72	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,2-Dichloroethane	8.3	U H	8.3	1.5	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Trichloroethene	8.3	U H	8.3	0.95	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,4-Dioxane	170	U H	170	23	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Toluene	**5.9**	**J H ***	8.3	0.32	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Tetrachloroethene	8.3	U H *	8.3	0.48	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Chlorobenzene	8.3	U H *	8.3	0.18	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Ethylbenzene	**1.8**	**J H ***	8.3	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
m-Xylene & p-Xylene	**2.5**	**J H ***	8.3	0.63	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
o-Xylene	8.3	U H *	8.3	0.088	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
Xylenes, Total	**2.5**	**J H ***	17	0.088	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
N-Propylbenzene	8.3	U H *	8.3	0.52	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,3,5-Trimethylbenzene	**2.0**	**J H ***	8.3	0.37	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
tert-Butylbenzene	8.3	U H *	8.3	0.42	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,2,4-Trimethylbenzene	**9.3**	**H ***	8.3	0.20	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
sec-Butylbenzene	8.3	U H *	8.3	0.18	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1

Client Sample ID: RXR9C/-10.4--10.9/17082015
Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16
Matrix: Solid
Percent Solids: 68.3

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**4.1**	**J H ***	8.3	0.63	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
1,2-Dichlorobenzene	8.3	U H *	8.3	0.22	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1
n-Butylbenzene	8.3	U H *	8.3	0.43	ug/Kg	☼	08/27/15 15:18	09/08/15 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/27/15 15:18*	*09/08/15 15:30*	*1*
Toluene-d8 (Surr)	*117*		*40 - 175*	*08/27/15 15:18*	*09/08/15 15:30*	*1*
4-Bromofluorobenzene	*140*		*30 - 200*	*08/27/15 15:18*	*09/08/15 15:30*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*	*08/27/15 15:18*	*09/08/15 15:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	960	U	960	31	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
2-Methylphenol	960	U	960	42	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
3 & 4 Methylphenol	**140**	**J**	960	26	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Naphthalene	**370**	**J**	960	24	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
2-Methylnaphthalene	**120**	**J**	960	21	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
2-Chloronaphthalene	960	U	960	22	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Acenaphthylene	**140**	**J**	960	25	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Acenaphthene	**270**	**J**	960	23	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Dibenzofuran	**170**	**J**	960	29	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Fluorene	**260**	**J**	960	21	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Hexachlorobenzene	96	U	96	39	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Pentachlorophenol	770	U	770	120	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Phenanthrene	**1900**		960	26	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Anthracene	**850**	**J**	960	91	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Fluoranthene	**5500**		960	29	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Pyrene	**5600**		960	44	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Benzo[a]anthracene	**2900**		96	80	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Chrysene	**3600**		960	26	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Benzo[b]fluoranthene	**4300**		96	38	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Benzo[k]fluoranthene	**1600**		96	42	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Benzo[a]pyrene	**2900**		96	29	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Indeno[1,2,3-cd]pyrene	**2400**		96	64	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Dibenz(a,h)anthracene	**640**		96	50	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2
Benzo[g,h,i]perylene	**2100**		960	55	ug/Kg	☼	08/28/15 13:08	09/02/15 04:56	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*28 - 92*	*08/28/15 13:08*	*09/02/15 04:56*	*2*
2-Fluorobiphenyl	*68*		*27 - 84*	*08/28/15 13:08*	*09/02/15 04:56*	*2*
Terphenyl-d14 (Surr)	*58*		*16 - 114*	*08/28/15 13:08*	*09/02/15 04:56*	*2*
2,4,6-Tribromophenol (Surr)	*46*		*10 - 95*	*08/28/15 13:08*	*09/02/15 04:56*	*2*
2-Fluorophenol (Surr)	*54*		*21 - 84*	*08/28/15 13:08*	*09/02/15 04:56*	*2*
Phenol-d5 (Surr)	*55*		*22 - 88*	*08/28/15 13:08*	*09/02/15 04:56*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.9	U	2.9	0.89	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
gamma-BHC (Lindane)	2.9	U	2.9	0.88	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
beta-BHC	2.9	U	2.9	0.95	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1

Client Sample ID: RXR9C/-10.4--10.9/17082015
Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16
Matrix: Solid
Percent Solids: 68.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	2.9	U	2.9	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Heptachlor	9.8	U	9.8	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Aldrin	9.8	U	9.8	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
gamma-Chlordane	9.8	U	9.8	2.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
alpha-Chlordane	9.8	U	9.8	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
4,4'-DDE	9.8	U	9.8	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Endosulfan I	9.8	U	9.8	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Dieldrin	2.9	U	2.9	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Endrin	9.8	U	9.8	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
4,4'-DDD	9.8	U	9.8	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Endosulfan II	9.8	U	9.8	1.5	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
4,4'-DDT	9.8	U *	9.8	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Endosulfan sulfate	9.8	U	9.8	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Chlordane (technical)	98	U	98	43	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1
Mirex	9.8	U	9.8	1.9	ug/Kg	☼	08/28/15 07:02	08/31/15 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:23*	*1*
Tetrachloro-m-xylene	*121*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:23*	*1*
DCB Decachlorobiphenyl	*122*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:23*	*1*
DCB Decachlorobiphenyl	*120*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:23*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	26	U	26	2.2	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1221	26	U	26	2.2	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1232	26	U	26	2.2	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1242	26	U	26	2.2	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1248	26	U	26	2.2	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1254	**180**	**p**	26	3.9	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1
PCB-1260	26	U	26	3.9	ug/Kg	☼	08/25/15 11:13	09/21/15 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:52*	*1*
Tetrachloro-m-xylene	*58*		*30 - 130*	*08/25/15 11:13*	*09/21/15 14:52*	*1*
DCB Decachlorobiphenyl	*42*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 14:52*	*1*
DCB Decachlorobiphenyl	*43*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 14:52*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	25	U	25	17	ug/Kg	☼	08/27/15 11:12	09/01/15 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*386*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:50*	*1*
2,4-Dichlorophenylacetic acid	*342*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 23:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**37.8**		2.5	0.45	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Arsenic	**15.9**		3.8	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Barium	**49.5**	**J**	50.9	1.8	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4

Client Sample ID: RXR9C/-10.4--10.9/17082015
Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16
Matrix: Solid
Percent Solids: 68.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.57		0.51	0.43	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Cadmium	7.3		1.0	0.53	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Chromium	44.6		2.5	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Copper	308		6.4	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Manganese	166		3.8	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Nickel	61.5		10.2	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Lead	294		2.5	1.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Selenium	2.5	J	5.1	1.8	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4
Zinc	360		7.6	1.9	mg/Kg	☼	08/31/15 08:00	09/02/15 21:17	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.024	0.017	mg/Kg	☼	09/12/15 12:44	09/12/15 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	3.0	U	3.0	1.2	mg/Kg	☼	09/15/15 09:09	09/15/15 15:00	1
Chromium (hexavalent)	2.9	U	2.9	1.2	mg/Kg	☼	09/15/15 19:00	09/16/15 00:40	1
Cr (III)	44.6		2.0	2.0	mg/Kg			09/16/15 08:56	1
Cyanide, Total	10.1		0.15	0.023	mg/Kg	☼	08/27/15 15:00	08/27/15 18:04	1
Percent Solids	68.3		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.409	U	0.212	0.216	0.486	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Bismuth-212	0.236	U	0.829	0.829	1.49	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Bismuth-214	0.329		0.149	0.153	0.176	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Lead-210	2.23		1.29	1.31	1.60	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Lead-212	0.557		0.135	0.153	0.135	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Lead-214	0.655		0.148	0.163	0.141	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Potassium-40	8.17		1.74	1.93	1.06	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Protactinium-231	0.0542	U	0.111	0.111	2.77	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Radium-226	0.329		0.149	0.153	0.176	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Radium-228	0.409	U	0.212	0.216	0.486	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Thallium-208	0.125	U	0.101	0.102	0.132	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Thorium-234	1.19	U	1.24	1.25	2.19	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Uranium-235	0.0762	U	0.251	0.251	0.452	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Uranium-238	1.19	U	1.24	1.25	2.19	pCi/g	08/27/15 10:35	09/17/15 08:18	1
Protactinium-234m	2.16	U	6.23	6.23	13.9	pCi/g	08/27/15 10:35	09/17/15 08:18	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.797		0.215	0.225	0.110	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	0.908		0.225	0.238	0.0419	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	0.520		0.172	0.177	0.0790	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Client Sample ID: RXR9C/-10.4--10.9/17082015

Date Collected: 08/17/15 12:20
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-16

Matrix: Solid
Percent Solids: 68.3

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	68.5		30 - 110	09/01/15 10:26	09/15/15 22:35	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.690**		0.176	0.185	0.0508	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0252	U	0.0397	0.0397	0.0633	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.565**		0.161	0.168	0.0792	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	87.9		30 - 110	09/01/15 10:26	09/15/15 22:38	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.738**		0.259	0.265	0.486	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR1A/+1.5--10.9/17082015

Date Collected: 08/17/15 13:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-17

Matrix: Solid
Percent Solids: 78.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.3	U F1 F2	5.3	0.71	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,1-Dichloroethene	5.3	U F1 *	5.3	0.30	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Acetone	**65**		5.3	4.4	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Methylene Chloride	5.3	U	5.3	0.60	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
trans-1,2-Dichloroethene	5.3	U	5.3	0.089	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Methyl tert-butyl ether	5.3	U F1	5.3	0.36	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,3-Dichlorobenzene	5.3	U *	5.3	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,1-Dichloroethane	5.3	U F1	5.3	0.48	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
cis-1,2-Dichloroethene	5.3	U	5.3	0.46	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
2-Butanone (MEK)	**16**		5.3	2.4	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Chloroform	5.3	U F1	5.3	0.47	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,1,1-Trichloroethane	5.3	U F1	5.3	0.33	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Carbon tetrachloride	5.3	U	5.3	0.058	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Benzene	5.3	U	5.3	0.46	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,2-Dichloroethane	5.3	U	5.3	0.93	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Trichloroethene	5.3	U F1 F2	5.3	0.61	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,4-Dioxane	110	U	110	15	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Toluene	5.3	U * F1	5.3	0.20	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Tetrachloroethene	5.3	U * F1	5.3	0.31	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Chlorobenzene	5.3	U *	5.3	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Ethylbenzene	**0.53**	**J ***	5.3	0.073	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
m-Xylene & p-Xylene	**1.6**	**J ***	5.3	0.41	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
o-Xylene	**0.45**	**J * F1**	5.3	0.057	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
Xylenes, Total	**2.1**	**J ***	11	0.057	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
N-Propylbenzene	5.3	U *	5.3	0.33	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1

Client Sample ID: RXR1A/+1.5--10.9/17082015
Date Collected: 08/17/15 13:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-17
Matrix: Solid
Percent Solids: 78.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	5.3	U * F1	5.3	0.24	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
tert-Butylbenzene	5.3	U * F1	5.3	0.27	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,2,4-Trimethylbenzene	5.3	U * F1	5.3	0.13	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
sec-Butylbenzene	5.3	U * F1	5.3	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,4-Dichlorobenzene	5.3	U *	5.3	0.41	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
1,2-Dichlorobenzene	5.3	U * F1	5.3	0.14	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1
n-Butylbenzene	5.3	U * F1 F2	5.3	0.28	ug/Kg	☼	08/18/15 14:50	08/28/15 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*35 - 145*	*08/18/15 14:50*	*08/28/15 11:15*	*1*
Toluene-d8 (Surr)	*154*		*40 - 175*	*08/18/15 14:50*	*08/28/15 11:15*	*1*
4-Bromofluorobenzene	*159*		*30 - 200*	*08/18/15 14:50*	*08/28/15 11:15*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*08/18/15 14:50*	*08/28/15 11:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	420	U	420	14	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
2-Methylphenol	420	U	420	18	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
3 & 4 Methylphenol	420	U	420	11	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Naphthalene	420	U	420	11	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
2-Methylnaphthalene	420	U	420	9.2	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
2-Chloronaphthalene	420	U	420	9.5	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Acenaphthylene	420	U	420	11	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Acenaphthene	420	U	420	10	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Dibenzofuran	420	U	420	13	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Fluorene	420	U	420	9.1	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Hexachlorobenzene	42	U	42	17	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Pentachlorophenol	340	U	340	51	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Phenanthrene	**25**	**J**	420	11	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Anthracene	420	U	420	40	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Fluoranthene	**42**	**J**	420	12	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Pyrene	**67**	**J**	420	19	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Benzo[a]anthracene	42	U	42	35	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Chrysene	420	U	420	11	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Benzo[b]fluoranthene	**48**		42	16	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Benzo[k]fluoranthene	**24**	**J**	42	18	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Benzo[a]pyrene	**35**	**J**	42	13	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Indeno[1,2,3-cd]pyrene	42	U F1	42	28	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Dibenz(a,h)anthracene	42	U F1	42	22	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1
Benzo[g,h,i]perylene	**36**	**J F1**	420	24	ug/Kg	☼	08/27/15 10:55	08/28/15 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*28 - 92*	*08/27/15 10:55*	*08/28/15 11:37*	*1*
2-Fluorobiphenyl	*84*		*27 - 84*	*08/27/15 10:55*	*08/28/15 11:37*	*1*
Terphenyl-d14 (Surr)	*82*		*16 - 114*	*08/27/15 10:55*	*08/28/15 11:37*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 95*	*08/27/15 10:55*	*08/28/15 11:37*	*1*
2-Fluorophenol (Surr)	*70*		*21 - 84*	*08/27/15 10:55*	*08/28/15 11:37*	*1*
Phenol-d5 (Surr)	*65*		*22 - 88*	*08/27/15 10:55*	*08/28/15 11:37*	*1*

Client Sample ID: RXR1A/+1.5--10.9/17082015
Date Collected: 08/17/15 13:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-17
Matrix: Solid
Percent Solids: 78.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.5	U	2.5	0.77	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
gamma-BHC (Lindane)	2.5	U	2.5	0.76	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
beta-BHC	2.5	U	2.5	0.83	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
delta-BHC	2.5	U	2.5	0.93	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Heptachlor	8.5	U	8.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Aldrin	8.5	U	8.5	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
gamma-Chlordane	8.5	U	8.5	1.8	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
alpha-Chlordane	8.5	U	8.5	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
4,4'-DDE	8.5	U	8.5	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Endosulfan I	8.5	U	8.5	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Dieldrin	2.5	U	2.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Endrin	8.5	U	8.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
4,4'-DDD	8.5	U	8.5	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Endosulfan II	8.5	U	8.5	1.3	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
4,4'-DDT	8.5	U *	8.5	0.88	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Endosulfan sulfate	8.5	U	8.5	0.99	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Chlordane (technical)	85	U	85	37	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1
Mirex	8.5	U	8.5	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*150*	*X*	*55 - 139*	*08/28/15 07:02*	*08/31/15 23:36*	*1*
Tetrachloro-m-xylene	*152*	*X*	*55 - 139*	*08/28/15 07:02*	*08/31/15 23:36*	*1*
DCB Decachlorobiphenyl	*154*	*X*	*55 - 148*	*08/28/15 07:02*	*08/31/15 23:36*	*1*
DCB Decachlorobiphenyl	*154*	*X*	*55 - 148*	*08/28/15 07:02*	*08/31/15 23:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23	U *	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1221	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1232	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1242	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1248	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1254	**10**	**J**	23	3.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1
PCB-1260	23	U *	23	3.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 130*	*08/25/15 11:13*	*09/21/15 15:08*	*1*
Tetrachloro-m-xylene	*60*		*30 - 130*	*08/25/15 11:13*	*09/21/15 15:08*	*1*
DCB Decachlorobiphenyl	*36*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 15:08*	*1*
DCB Decachlorobiphenyl	*40*	*X*	*45 - 125*	*08/25/15 11:13*	*09/21/15 15:08*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	22	U	22	14	ug/Kg	☼	08/28/15 13:56	09/01/15 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*412*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 20:22*	*1*
2,4-Dichlorophenylacetic acid	*392*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 20:22*	*1*

Client Sample ID: RXR1A/+1.5--10.9/17082015

Date Collected: 08/17/15 13:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-17

Matrix: Solid
Percent Solids: 78.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**1.9**	**J**	2.4	0.42	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Arsenic	**4.1**		3.6	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Barium	**84.1**		47.9	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Beryllium	0.48	U	0.48	0.41	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Cadmium	0.96	U	0.96	0.50	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Chromium	**30.3**		2.4	1.2	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Copper	**33.0**		6.0	1.6	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Manganese	**111**	**F1**	3.6	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Nickel	**13.1**		9.6	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Lead	**19.5**		2.4	0.94	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Selenium	4.8	U	4.8	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4
Zinc	**40.2**		7.2	1.7	mg/Kg	☼	08/31/15 08:00	09/02/15 21:32	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**	**F1**	0.021	0.015	mg/Kg	☼	09/10/15 05:55	09/10/15 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.5	U F1	2.5	1.0	mg/Kg	☼	09/16/15 18:00	09/16/15 22:45	1
Chromium (hexavalent)	2.6	U F1	2.6	1.0	mg/Kg	☼	09/16/15 18:00	09/16/15 23:51	1
Cr (III)	**30.3**		2.0	2.0	mg/Kg			09/17/15 12:58	1
Cyanide, Total	**0.022**	**J**	0.13	0.020	mg/Kg	☼	08/27/15 15:00	08/27/15 17:52	1
Percent Solids	**78.7**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.434**		0.138	0.145	0.202	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Bismuth-212	0.598	U	0.418	0.422	0.607	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Bismuth-214	**0.472**		0.110	0.120	0.0910	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-210	-0.106	U	0.805	0.805	1.41	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-212	**0.521**		0.114	0.133	0.103	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-214	**0.570**		0.115	0.130	0.0936	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Potassium-40	**5.39**		0.967	1.11	0.772	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Protactinium-231	0.524	U	0.695	0.697	1.15	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Radium-226	**0.472**		0.110	0.120	0.0910	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Radium-228	**0.434**		0.138	0.145	0.202	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Thallium-208	**0.197**		0.0536	0.0573	0.0441	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Thorium-234	0.482	U	0.406	0.409	1.47	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Uranium-235	0.0974	U	0.196	0.196	0.341	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Uranium-238	0.482	U	0.406	0.409	1.47	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Protactinium-234m	0.344	U	2.92	2.92	4.74	pCi/g	08/27/15 10:35	09/17/15 09:00	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.508**		0.149	0.155	0.0907	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Client Sample ID: RXR1A/+1.5--10.9/17082015

Date Collected: 08/17/15 13:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-17

Matrix: Solid
Percent Solids: 78.7

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-230	**0.452**		0.139	0.144	0.0701	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.486**		0.142	0.148	0.0583	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*96.6*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.486**		0.146	0.152	0.0833	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0344	U	0.0459	0.0460	0.0681	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.525**		0.149	0.155	0.0315	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*96.2*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.906**		0.176	0.188	0.202	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR1B/-10.9--11.4/17082015

Date Collected: 08/17/15 13:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-18

Matrix: Solid
Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.3	U	4.3	0.57	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,1-Dichloroethene	4.3	U	4.3	0.24	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Acetone	**8.9**		4.3	3.5	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Methylene Chloride	4.3	U	4.3	0.48	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
trans-1,2-Dichloroethene	4.3	U	4.3	0.072	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Methyl tert-butyl ether	4.3	U	4.3	0.29	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,3-Dichlorobenzene	4.3	U	4.3	0.095	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,1-Dichloroethane	4.3	U	4.3	0.39	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
cis-1,2-Dichloroethene	4.3	U	4.3	0.37	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
2-Butanone (MEK)	**1.9**	**J**	4.3	1.9	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Chloroform	4.3	U	4.3	0.38	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,1,1-Trichloroethane	4.3	U	4.3	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Carbon tetrachloride	4.3	U	4.3	0.047	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Benzene	4.3	U	4.3	0.37	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,2-Dichloroethane	4.3	U	4.3	0.75	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Trichloroethene	4.3	U	4.3	0.49	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,4-Dioxane	86	U	86	12	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Toluene	**1.2**	**J**	4.3	0.16	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Tetrachloroethene	4.3	U	4.3	0.25	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1

Client Sample ID: RXR1B/-10.9--11.4/17082015
Date Collected: 08/17/15 13:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-18
Matrix: Solid
Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	4.3	U	4.3	0.095	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Ethylbenzene	**0.24**	**J**	4.3	0.059	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
m-Xylene & p-Xylene	**0.86**	**J**	4.3	0.33	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
o-Xylene	4.3	U	4.3	0.046	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
Xylenes, Total	**0.86**	**J**	8.6	0.046	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
N-Propylbenzene	4.3	U	4.3	0.27	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,3,5-Trimethylbenzene	4.3	U	4.3	0.19	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
tert-Butylbenzene	4.3	U	4.3	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,2,4-Trimethylbenzene	**0.36**	**J**	4.3	0.10	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
sec-Butylbenzene	4.3	U	4.3	0.095	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,4-Dichlorobenzene	4.3	U	4.3	0.33	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
1,2-Dichlorobenzene	4.3	U	4.3	0.11	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1
n-Butylbenzene	4.3	U	4.3	0.22	ug/Kg	☼	08/18/15 14:50	08/27/15 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*35 - 145*	*08/18/15 14:50*	*08/27/15 14:39*	*1*
Toluene-d8 (Surr)	*113*		*40 - 175*	*08/18/15 14:50*	*08/27/15 14:39*	*1*
4-Bromofluorobenzene	*119*		*30 - 200*	*08/18/15 14:50*	*08/27/15 14:39*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*08/18/15 14:50*	*08/27/15 14:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	360	U	360	12	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
2-Methylphenol	360	U	360	16	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
3 & 4 Methylphenol	360	U	360	9.5	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Naphthalene	360	U	360	9.1	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
2-Methylnaphthalene	360	U	360	7.9	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
2-Chloronaphthalene	360	U	360	8.1	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Acenaphthylene	360	U	360	9.2	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Acenaphthene	360	U	360	8.7	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Dibenzofuran	360	U	360	11	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Fluorene	360	U	360	7.8	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Hexachlorobenzene	36	U	36	15	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Pentachlorophenol	290	U	290	43	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Phenanthrene	360	U	360	9.5	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Anthracene	360	U	360	34	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Fluoranthene	360	U	360	11	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Pyrene	360	U	360	16	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Benzo[a]anthracene	36	U	36	30	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Chrysene	360	U	360	9.7	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Benzo[b]fluoranthene	36	U	36	14	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Benzo[k]fluoranthene	36	U	36	16	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Benzo[a]pyrene	**20**	**J**	36	11	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Indeno[1,2,3-cd]pyrene	36	U	36	24	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Dibenz(a,h)anthracene	36	U	36	19	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1
Benzo[g,h,i]perylene	360	U	360	21	ug/Kg	☼	08/28/15 13:08	09/01/15 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*28 - 92*	*08/28/15 13:08*	*09/01/15 23:58*	*1*
2-Fluorobiphenyl	*76*		*27 - 84*	*08/28/15 13:08*	*09/01/15 23:58*	*1*

Client Sample ID: RXR1B/-10.9--11.4/17082015
Date Collected: 08/17/15 13:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-18
Matrix: Solid
Percent Solids: 91.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*108*		*16 - 114*	*08/28/15 13:08*	*09/01/15 23:58*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*10 - 95*	*08/28/15 13:08*	*09/01/15 23:58*	*1*
2-Fluorophenol (Surr)	*71*		*21 - 84*	*08/28/15 13:08*	*09/01/15 23:58*	*1*
Phenol-d5 (Surr)	*77*		*22 - 88*	*08/28/15 13:08*	*09/01/15 23:58*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.2	U	2.2	0.66	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
gamma-BHC (Lindane)	2.2	U	2.2	0.65	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
beta-BHC	2.2	U	2.2	0.71	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
delta-BHC	2.2	U	2.2	0.79	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Heptachlor	7.3	U	7.3	0.94	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Aldrin	7.3	U	7.3	0.88	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
gamma-Chlordane	7.3	U	7.3	1.6	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
alpha-Chlordane	7.3	U	7.3	1.2	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
4,4'-DDE	7.3	U	7.3	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Endosulfan I	7.3	U	7.3	1.0	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Dieldrin	2.2	U	2.2	0.95	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Endrin	7.3	U	7.3	0.93	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
4,4'-DDD	7.3	U	7.3	0.96	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Endosulfan II	7.3	U	7.3	1.1	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
4,4'-DDT	7.3	U *	7.3	0.75	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Endosulfan sulfate	7.3	U	7.3	0.85	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Chlordane (technical)	73	U	73	32	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1
Mirex	7.3	U	7.3	1.4	ug/Kg	☼	08/28/15 07:02	08/31/15 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*120*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:49*	*1*
Tetrachloro-m-xylene	*123*		*55 - 139*	*08/28/15 07:02*	*08/31/15 23:49*	*1*
DCB Decachlorobiphenyl	*124*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:49*	*1*
DCB Decachlorobiphenyl	*121*		*55 - 148*	*08/28/15 07:02*	*08/31/15 23:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1221	17	U	17	1.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1232	17	U	17	1.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1242	17	U	17	1.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1248	17	U	17	1.4	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1254	**9.2**	**J**	17	2.6	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1
PCB-1260	17	U	17	2.6	ug/Kg	☼	08/25/15 11:13	09/21/15 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*75*		*30 - 130*	*08/25/15 11:13*	*09/21/15 15:58*	*1*
Tetrachloro-m-xylene	*78*		*30 - 130*	*08/25/15 11:13*	*09/21/15 15:58*	*1*
DCB Decachlorobiphenyl	*56*		*45 - 125*	*08/25/15 11:13*	*09/21/15 15:58*	*1*
DCB Decachlorobiphenyl	*60*		*45 - 125*	*08/25/15 11:13*	*09/21/15 15:58*	*1*

Client Sample ID: RXR1B/-10.9--11.4/17082015

Date Collected: 08/17/15 13:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-18

Matrix: Solid
Percent Solids: 91.8

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	18	U	18	12	ug/Kg	☼	08/28/15 13:56	09/01/15 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*194*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 20:37*	*1*
2,4-Dichlorophenylacetic acid	*176*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 20:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**3.2**		2.1	0.36	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Arsenic	**3.0**	**J**	3.1	1.0	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Barium	**117**		41.1	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Beryllium	0.41	U	0.41	0.35	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Cadmium	0.82	U	0.82	0.43	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Chromium	**29.4**		2.1	0.99	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Copper	**36.3**		5.1	1.3	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Manganese	**92.6**		3.1	1.1	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Nickel	**12.9**		8.2	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Lead	**18.1**		2.1	0.81	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Selenium	4.1	U	4.1	1.4	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4
Zinc	**35.3**		6.2	1.5	mg/Kg	☼	08/31/15 08:00	09/02/15 21:43	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.018	0.013	mg/Kg	☼	09/12/15 12:44	09/12/15 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.2	U	2.2	0.87	mg/Kg	☼	09/16/15 18:00	09/16/15 22:45	1
Chromium (hexavalent)	2.1	U	2.1	0.87	mg/Kg	☼	09/16/15 18:00	09/16/15 23:51	1
Cr (III)	**29.4**		2.0	2.0	mg/Kg			09/17/15 12:58	1
Cyanide, Total	0.11	U	0.11	0.017	mg/Kg	☼	08/27/15 15:00	08/27/15 18:04	1
Percent Solids	**91.8**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.873**		0.226	0.243	0.111	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Bismuth-212	0.226	U	0.611	0.611	1.08	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Bismuth-214	**0.720**		0.157	0.173	0.111	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-210	0.765	U	1.33	1.34	2.23	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-212	**0.633**		0.148	0.170	0.142	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Lead-214	**0.884**		0.158	0.183	0.105	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Potassium-40	**8.74**		1.48	1.73	0.709	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Protactinium-231	0.000305	U	0.913	0.913	1.67	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Radium-226	**0.720**		0.157	0.173	0.111	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Radium-228	**0.873**		0.226	0.243	0.111	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Thallium-208	**0.224**		0.0621	0.0663	0.0521	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Thorium-234	1.69	U	1.30	1.31	1.72	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Uranium-235	0.0299	U	0.0681	0.0682	0.550	pCi/g	08/27/15 10:35	09/17/15 09:00	1
Uranium-238	1.69	U	1.30	1.31	1.72	pCi/g	08/27/15 10:35	09/17/15 09:00	1

Client Sample ID: RXR1B/-10.9--11.4/17082015

Lab Sample ID: 200-29316-18

Date Collected: 08/17/15 13:40
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 91.8

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Protactinium-234m	-0.562	U	3.74	3.74	11.0	pCi/g	08/27/15 10:35	09/17/15 09:00	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**1.02**		0.229	0.245	0.110	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.647**		0.180	0.188	0.0568	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.658**		0.181	0.189	0.0373	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*76.7*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.585**		0.162	0.169	0.0774	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0330	U	0.0478	0.0478	0.0771	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.807**		0.188	0.200	0.0664	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*92.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.593**		0.275	0.298	0.111	pCi/g		09/21/15 22:06	1

Client Sample ID: RXR1C/-11.4--11.9/17082015

Lab Sample ID: 200-29316-19

Date Collected: 08/17/15 13:50
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.0	U	3.0	0.40	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,1-Dichloroethene	3.0	U *	3.0	0.17	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Acetone	**17**		3.0	2.5	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Methylene Chloride	3.0	U	3.0	0.34	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
trans-1,2-Dichloroethene	3.0	U	3.0	0.051	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Methyl tert-butyl ether	3.0	U	3.0	0.21	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,3-Dichlorobenzene	3.0	U *	3.0	0.067	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,1-Dichloroethane	3.0	U	3.0	0.27	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
cis-1,2-Dichloroethene	3.0	U	3.0	0.26	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
2-Butanone (MEK)	3.0	U	3.0	1.3	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Chloroform	3.0	U	3.0	0.27	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,1,1-Trichloroethane	3.0	U	3.0	0.19	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1

Client Sample ID: RXR1C/-11.4--11.9/17082015
Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19
Matrix: Solid
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	3.0	U	3.0	0.033	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Benzene	3.0	U	3.0	0.26	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,2-Dichloroethane	3.0	U	3.0	0.53	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Trichloroethene	3.0	U	3.0	0.35	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,4-Dioxane	61	U	61	8.5	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Toluene	**1.7**	**J ***	3.0	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Tetrachloroethene	3.0	U *	3.0	0.18	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Chlorobenzene	3.0	U *	3.0	0.067	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Ethylbenzene	**0.35**	**J ***	3.0	0.041	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
m-Xylene & p-Xylene	3.0	U *	3.0	0.23	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
o-Xylene	3.0	U *	3.0	0.032	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
Xylenes, Total	6.1	U *	6.1	0.032	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
N-Propylbenzene	3.0	U *	3.0	0.19	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,3,5-Trimethylbenzene	3.0	U *	3.0	0.13	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
tert-Butylbenzene	3.0	U *	3.0	0.15	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,2,4-Trimethylbenzene	**0.74**	**J ***	3.0	0.073	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
sec-Butylbenzene	3.0	U *	3.0	0.067	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,4-Dichlorobenzene	3.0	U *	3.0	0.23	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
1,2-Dichlorobenzene	3.0	U *	3.0	0.079	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1
n-Butylbenzene	3.0	U *	3.0	0.16	ug/Kg	☼	08/18/15 14:50	08/28/15 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*35 - 145*	*08/18/15 14:50*	*08/28/15 11:46*	*1*
Toluene-d8 (Surr)	*137*		*40 - 175*	*08/18/15 14:50*	*08/28/15 11:46*	*1*
4-Bromofluorobenzene	*140*		*30 - 200*	*08/18/15 14:50*	*08/28/15 11:46*	*1*
Dibromofluoromethane (Surr)	*116*		*50 - 150*	*08/18/15 14:50*	*08/28/15 11:46*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U H	5.0	0.65	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,1-Dichloroethene	5.0	U H	5.0	0.28	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Acetone	**14**	**H**	5.0	4.1	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Methylene Chloride	5.0	U H	5.0	0.55	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
trans-1,2-Dichloroethene	5.0	U H	5.0	0.082	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Methyl tert-butyl ether	5.0	U H	5.0	0.34	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,3-Dichlorobenzene	5.0	U H	5.0	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,1-Dichloroethane	5.0	U H	5.0	0.45	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
cis-1,2-Dichloroethene	5.0	U H	5.0	0.43	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
2-Butanone (MEK)	5.0	U H	5.0	2.2	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Chloroform	5.0	U H	5.0	0.44	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,1,1-Trichloroethane	5.0	U H	5.0	0.31	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Carbon tetrachloride	5.0	U H	5.0	0.053	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Benzene	**0.49**	**J H**	5.0	0.43	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,2-Dichloroethane	5.0	U H	5.0	0.86	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Trichloroethene	5.0	U H	5.0	0.56	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,4-Dioxane	99	U H	99	14	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Toluene	**2.9**	**J H**	5.0	0.19	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Tetrachloroethene	5.0	U H	5.0	0.29	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Chlorobenzene	5.0	U H	5.0	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Ethylbenzene	**0.62**	**J H**	5.0	0.067	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1

Client Sample ID: RXR1C/-11.4--11.9/17082015
Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19
Matrix: Solid
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**1.9**	**J H**	5.0	0.38	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
o-Xylene	**0.73**	**J H**	5.0	0.052	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
Xylenes, Total	**2.6**	**J H**	9.9	0.052	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
N-Propylbenzene	5.0	U H	5.0	0.31	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,3,5-Trimethylbenzene	**0.23**	**J H**	5.0	0.22	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
tert-Butylbenzene	5.0	U H	5.0	0.25	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,2,4-Trimethylbenzene	**0.55**	**J H**	5.0	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
sec-Butylbenzene	5.0	U H	5.0	0.11	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,4-Dichlorobenzene	5.0	U H	5.0	0.38	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
1,2-Dichlorobenzene	5.0	U H	5.0	0.13	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1
n-Butylbenzene	5.0	U H	5.0	0.26	ug/Kg	☼	08/27/15 15:18	09/08/15 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*35 - 145*	*08/27/15 15:18*	*09/08/15 16:01*	*1*
Toluene-d8 (Surr)	*106*		*40 - 175*	*08/27/15 15:18*	*09/08/15 16:01*	*1*
4-Bromofluorobenzene	*108*		*30 - 200*	*08/27/15 15:18*	*09/08/15 16:01*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*08/27/15 15:18*	*09/08/15 16:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	360	U	360	12	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
2-Methylphenol	360	U	360	16	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
3 & 4 Methylphenol	360	U	360	9.6	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Naphthalene	360	U	360	9.2	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
2-Methylnaphthalene	360	U	360	8.0	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
2-Chloronaphthalene	360	U	360	8.2	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Acenaphthylene	360	U	360	9.3	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Acenaphthene	360	U	360	8.8	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Dibenzofuran	360	U	360	11	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Fluorene	360	U	360	7.9	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Hexachlorobenzene	36	U	36	15	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Pentachlorophenol	290	U	290	44	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Phenanthrene	360	U	360	9.6	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Anthracene	360	U	360	34	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Fluoranthene	360	U	360	11	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Pyrene	360	U	360	16	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Benzo[a]anthracene	36	U	36	30	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Chrysene	360	U	360	9.8	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Benzo[b]fluoranthene	36	U	36	14	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Benzo[k]fluoranthene	36	U	36	16	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Benzo[a]pyrene	36	U	36	11	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Indeno[1,2,3-cd]pyrene	36	U	36	24	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Dibenz(a,h)anthracene	36	U	36	19	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1
Benzo[g,h,i]perylene	360	U	360	21	ug/Kg	☼	08/28/15 13:08	08/31/15 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*28 - 92*	*08/28/15 13:08*	*08/31/15 17:24*	*1*
2-Fluorobiphenyl	*80*		*27 - 84*	*08/28/15 13:08*	*08/31/15 17:24*	*1*
Terphenyl-d14 (Surr)	*96*		*16 - 114*	*08/28/15 13:08*	*08/31/15 17:24*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*10 - 95*	*08/28/15 13:08*	*08/31/15 17:24*	*1*

Client Sample ID: RXR1C/-11.4--11.9/17082015
Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19
Matrix: Solid
Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*72*		*21 - 84*	*08/28/15 13:08*	*08/31/15 17:24*	*1*
Phenol-d5 (Surr)	*78*		*22 - 88*	*08/28/15 13:08*	*08/31/15 17:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.2	U	2.2	0.67	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
gamma-BHC (Lindane)	2.2	U	2.2	0.66	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
beta-BHC	2.2	U	2.2	0.71	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
delta-BHC	2.2	U	2.2	0.80	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Heptachlor	7.4	U	7.4	0.95	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Aldrin	7.4	U	7.4	0.89	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
gamma-Chlordane	7.4	U	7.4	1.6	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
alpha-Chlordane	7.4	U	7.4	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
4,4'-DDE	7.4	U	7.4	1.1	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Endosulfan I	7.4	U	7.4	1.0	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Dieldrin	2.2	U	2.2	0.96	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Endrin	7.4	U	7.4	0.93	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
4,4'-DDD	7.4	U	7.4	0.97	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Endosulfan II	7.4	U	7.4	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
4,4'-DDT	7.4	U *	7.4	0.76	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Endosulfan sulfate	7.4	U	7.4	0.86	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Chlordane (technical)	74	U	74	32	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1
Mirex	7.4	U	7.4	1.4	ug/Kg	☼	08/28/15 07:03	09/01/15 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*112*		*55 - 139*	*08/28/15 07:03*	*09/01/15 00:02*	*1*
Tetrachloro-m-xylene	*114*		*55 - 139*	*08/28/15 07:03*	*09/01/15 00:02*	*1*
DCB Decachlorobiphenyl	*113*		*55 - 148*	*08/28/15 07:03*	*09/01/15 00:02*	*1*
DCB Decachlorobiphenyl	*111*		*55 - 148*	*08/28/15 07:03*	*09/01/15 00:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	18	U	18	1.5	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1221	18	U	18	1.5	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1232	18	U	18	1.5	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1242	18	U	18	1.5	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1248	18	U	18	1.5	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1254	**5.3**	**J**	18	2.7	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1
PCB-1260	18	U	18	2.7	ug/Kg	☼	08/25/15 11:13	09/21/15 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*80*		*30 - 130*	*08/25/15 11:13*	*09/21/15 16:14*	*1*
Tetrachloro-m-xylene	*79*		*30 - 130*	*08/25/15 11:13*	*09/21/15 16:14*	*1*
DCB Decachlorobiphenyl	*57*		*45 - 125*	*08/25/15 11:13*	*09/21/15 16:14*	*1*
DCB Decachlorobiphenyl	*58*		*45 - 125*	*08/25/15 11:13*	*09/21/15 16:14*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	19	U	19	13	ug/Kg	☼	08/28/15 13:56	09/01/15 20:52	1

Client Sample ID: RXR1C/-11.4--11.9/17082015

Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19

Matrix: Solid
Percent Solids: 90.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	160	X	83 - 150	08/28/15 13:56	09/01/15 20:52	1
2,4-Dichlorophenylacetic acid	176	X	83 - 150	08/28/15 13:56	09/01/15 20:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**1.8**	**J**	2.1	0.38	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Arsenic	**2.2**	**J**	3.2	1.0	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Barium	**19.3**	**J**	42.7	1.5	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Beryllium	0.43	U	0.43	0.36	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Cadmium	0.85	U	0.85	0.45	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Chromium	**10.9**		2.1	1.0	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Copper	**26.2**		5.3	1.4	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Manganese	**43.3**		3.2	1.1	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Nickel	**6.4**	**J**	8.5	1.6	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Lead	**11.5**		2.1	0.84	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Selenium	4.3	U	4.3	1.5	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4
Zinc	**22.8**		6.4	1.6	mg/Kg	☼	08/31/15 07:54	09/03/15 00:07	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.018	0.013	mg/Kg	☼	09/12/15 12:44	09/12/15 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.3	U	2.3	0.93	mg/Kg	☼	09/16/15 18:00	09/16/15 22:55	1
Chromium (hexavalent)	2.2	U	2.2	0.90	mg/Kg	☼	09/16/15 18:00	09/16/15 23:54	1
Cr (III)	**10.9**		2.0	2.0	mg/Kg			09/17/15 12:58	1
Cyanide, Total	0.11	U	0.11	0.018	mg/Kg	☼	08/27/15 15:00	08/27/15 18:05	1
Percent Solids	**90.9**		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	**0.535**		0.211	0.218	0.283	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Bismuth-212	0.000	U	0.603	0.603	1.31	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Bismuth-214	**0.676**		0.154	0.170	0.109	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Lead-210	0.640	U	1.30	1.30	2.20	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Lead-212	**0.633**		0.138	0.161	0.140	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Lead-214	**0.494**		0.141	0.150	0.126	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Potassium-40	**7.15**		1.42	1.60	0.869	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Protactinium-231	0.262	U	0.305	0.307	2.25	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Radium-226	**0.676**		0.154	0.170	0.109	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Radium-228	**0.535**		0.211	0.218	0.283	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Thallium-208	**0.127**		0.0627	0.0641	0.0880	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Thorium-234	1.12	U	0.555	0.567	1.86	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Uranium-235	0.0594	U	0.210	0.210	0.433	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Uranium-238	1.12	U	0.555	0.567	1.86	pCi/g	08/27/15 10:35	09/17/15 10:21	1
Protactinium-234m	2.01	U	4.81	4.81	9.37	pCi/g	08/27/15 10:35	09/17/15 10:21	1

Client Sample ID: RXR1C/-11.4--11.9/17082015

Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19

Matrix: Solid
Percent Solids: 90.9

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	**0.781**		0.186	0.197	0.0972	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	**0.588**		0.160	0.167	0.0751	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	**0.569**		0.155	0.163	0.0546	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*92.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.663**		0.174	0.182	0.0683	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0279	U	0.0394	0.0395	0.0418	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.514**		0.152	0.158	0.0335	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.5*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.211**		0.261	0.276	0.283	pCi/g		09/21/15 22:06	1

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	4.9	U	4.9	0.65	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,1-Dichloroethene	4.9	U *	4.9	0.28	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Acetone	**24**		4.9	4.0	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Methylene Chloride	**0.95**	**J B**	4.9	0.55	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
trans-1,2-Dichloroethene	4.9	U	4.9	0.082	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Methyl tert-butyl ether	4.9	U	4.9	0.33	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,3-Dichlorobenzene	**0.42**	**J * B**	4.9	0.11	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,1-Dichloroethane	4.9	U	4.9	0.44	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
cis-1,2-Dichloroethene	4.9	U	4.9	0.42	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
2-Butanone (MEK)	**7.1**		4.9	2.2	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Chloroform	4.9	U	4.9	0.43	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,1,1-Trichloroethane	4.9	U	4.9	0.30	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Carbon tetrachloride	4.9	U	4.9	0.053	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Benzene	4.9	U	4.9	0.42	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,2-Dichloroethane	4.9	U	4.9	0.86	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Trichloroethene	4.9	U	4.9	0.56	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,4-Dioxane	98	U	98	14	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Toluene	**2.3**	**J ***	4.9	0.19	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	4.9	U *	4.9	0.29	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Chlorobenzene	4.9	U *	4.9	0.11	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Ethylbenzene	**0.51**	**J ***	4.9	0.067	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
m-Xylene & p-Xylene	**1.9**	**J ***	4.9	0.37	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
o-Xylene	**0.45**	**J ***	4.9	0.052	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
Xylenes, Total	**2.4**	**J ***	9.8	0.052	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
N-Propylbenzene	4.9	U *	4.9	0.30	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,3,5-Trimethylbenzene	4.9	U *	4.9	0.22	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
tert-Butylbenzene	4.9	U *	4.9	0.25	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,2,4-Trimethylbenzene	**1.4**	**J ***	4.9	0.12	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
sec-Butylbenzene	4.9	U *	4.9	0.11	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,4-Dichlorobenzene	**1.1**	**J ***	4.9	0.37	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
1,2-Dichlorobenzene	4.9	U *	4.9	0.13	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1
n-Butylbenzene	4.9	U *	4.9	0.26	ug/Kg	☼	08/18/15 14:50	08/28/15 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*35 - 145*	*08/18/15 14:50*	*08/28/15 12:16*	*1*
Toluene-d8 (Surr)	*135*		*40 - 175*	*08/18/15 14:50*	*08/28/15 12:16*	*1*
4-Bromofluorobenzene	*130*		*30 - 200*	*08/18/15 14:50*	*08/28/15 12:16*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*08/18/15 14:50*	*08/28/15 12:16*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.4	U H	5.4	0.72	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,1-Dichloroethene	5.4	U H	5.4	0.30	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Acetone	**17**	**H**	5.4	4.5	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Methylene Chloride	**1.3**	**J H**	5.4	0.61	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
trans-1,2-Dichloroethene	5.4	U H	5.4	0.090	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Methyl tert-butyl ether	5.4	U H	5.4	0.37	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,3-Dichlorobenzene	**0.37**	**J H B**	5.4	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,1-Dichloroethane	5.4	U H	5.4	0.49	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
cis-1,2-Dichloroethene	5.4	U H	5.4	0.47	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
2-Butanone (MEK)	**5.1**	**J H**	5.4	2.4	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Chloroform	5.4	U H	5.4	0.48	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,1,1-Trichloroethane	5.4	U H	5.4	0.34	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Carbon tetrachloride	5.4	U H	5.4	0.059	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Benzene	5.4	U H	5.4	0.47	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,2-Dichloroethane	5.4	U H	5.4	0.95	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Trichloroethene	5.4	U H	5.4	0.62	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,4-Dioxane	110	U H	110	15	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Toluene	**1.6**	**J H**	5.4	0.21	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Tetrachloroethene	5.4	U H	5.4	0.32	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Chlorobenzene	5.4	U H	5.4	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Ethylbenzene	**0.56**	**J H**	5.4	0.074	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
m-Xylene & p-Xylene	**1.2**	**J H**	5.4	0.41	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
o-Xylene	**0.52**	**J H**	5.4	0.058	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
Xylenes, Total	**1.7**	**J H**	11	0.058	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
N-Propylbenzene	5.4	U H	5.4	0.34	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,3,5-Trimethylbenzene	**0.28**	**J H**	5.4	0.24	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
tert-Butylbenzene	5.4	U H	5.4	0.27	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1

Client Sample ID: DUP001
Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20
Matrix: Solid
Percent Solids: 72.1

Method: 8260C - Volatile Organic Compounds by GC/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**0.69**	**J H**	5.4	0.13	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
sec-Butylbenzene	5.4	U H	5.4	0.12	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,4-Dichlorobenzene	**0.82**	**J H**	5.4	0.41	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
1,2-Dichlorobenzene	5.4	U H	5.4	0.14	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1
n-Butylbenzene	5.4	U H	5.4	0.28	ug/Kg	☼	08/27/15 15:18	09/08/15 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*35 - 145*	*08/27/15 15:18*	*09/08/15 16:32*	*1*
Toluene-d8 (Surr)	*109*		*40 - 175*	*08/27/15 15:18*	*09/08/15 16:32*	*1*
4-Bromofluorobenzene	*125*		*30 - 200*	*08/27/15 15:18*	*09/08/15 16:32*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*08/27/15 15:18*	*09/08/15 16:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	910	U	910	30	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
2-Methylphenol	910	U	910	40	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
3 & 4 Methylphenol	910	U	910	24	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Naphthalene	**35**	**J**	910	23	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
2-Methylnaphthalene	**25**	**J**	910	20	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
2-Chloronaphthalene	910	U	910	21	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Acenaphthylene	910	U	910	23	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Acenaphthene	910	U	910	22	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Dibenzofuran	910	U	910	28	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Fluorene	910	U	910	20	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Hexachlorobenzene	91	U	91	37	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Pentachlorophenol	730	U	730	110	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Phenanthrene	**87**	**J**	910	24	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Anthracene	910	U	910	87	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Fluoranthene	**140**	**J**	910	27	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Pyrene	**380**	**J**	910	41	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Benzo[a]anthracene	**130**		91	76	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Chrysene	**160**	**J**	910	25	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Benzo[b]fluoranthene	**280**		91	36	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Benzo[k]fluoranthene	**94**		91	40	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Benzo[a]pyrene	**220**		91	28	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Indeno[1,2,3-cd]pyrene	**180**		91	61	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Dibenz(a,h)anthracene	**60**	**J**	91	47	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2
Benzo[g,h,i]perylene	**160**	**J**	910	52	ug/Kg	☼	08/28/15 13:08	09/02/15 05:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*73*		*28 - 92*	*08/28/15 13:08*	*09/02/15 05:18*	*2*
2-Fluorobiphenyl	*81*		*27 - 84*	*08/28/15 13:08*	*09/02/15 05:18*	*2*
Terphenyl-d14 (Surr)	*85*		*16 - 114*	*08/28/15 13:08*	*09/02/15 05:18*	*2*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 95*	*08/28/15 13:08*	*09/02/15 05:18*	*2*
2-Fluorophenol (Surr)	*61*		*21 - 84*	*08/28/15 13:08*	*09/02/15 05:18*	*2*
Phenol-d5 (Surr)	*65*		*22 - 88*	*08/28/15 13:08*	*09/02/15 05:18*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.8	U	2.8	0.85	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	2.8	U	2.8	0.83	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
beta-BHC	2.8	U	2.8	0.90	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
delta-BHC	2.8	U	2.8	1.0	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Heptachlor	9.3	U	9.3	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Aldrin	9.3	U	9.3	1.1	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
gamma-Chlordane	9.3	U	9.3	2.0	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
alpha-Chlordane	9.3	U	9.3	1.5	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
4,4'-DDE	9.3	U	9.3	1.3	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Endosulfan I	9.3	U	9.3	1.3	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Dieldrin	2.8	U	2.8	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Endrin	9.3	U	9.3	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
4,4'-DDD	9.3	U	9.3	1.2	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Endosulfan II	9.3	U	9.3	1.5	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
4,4'-DDT	9.3	U *	9.3	0.96	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Endosulfan sulfate	9.3	U	9.3	1.1	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Chlordane (technical)	93	U	93	41	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1
Mirex	9.3	U	9.3	1.8	ug/Kg	☼	08/28/15 07:03	09/01/15 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*55 - 139*	*08/28/15 07:03*	*09/01/15 00:14*	*1*
Tetrachloro-m-xylene	*130*		*55 - 139*	*08/28/15 07:03*	*09/01/15 00:14*	*1*
DCB Decachlorobiphenyl	*130*		*55 - 148*	*08/28/15 07:03*	*09/01/15 00:14*	*1*
DCB Decachlorobiphenyl	*128*		*55 - 148*	*08/28/15 07:03*	*09/01/15 00:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1221	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1232	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1242	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1248	23	U	23	1.9	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1254	**56**		23	3.4	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1
PCB-1260	23	U	23	3.4	ug/Kg	☼	08/25/15 11:13	09/21/15 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*30 - 130*	*08/25/15 11:13*	*09/21/15 16:30*	*1*
Tetrachloro-m-xylene	*56*		*30 - 130*	*08/25/15 11:13*	*09/21/15 16:30*	*1*
DCB Decachlorobiphenyl	*47*		*45 - 125*	*08/25/15 11:13*	*09/21/15 16:30*	*1*
DCB Decachlorobiphenyl	*50*		*45 - 125*	*08/25/15 11:13*	*09/21/15 16:30*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	24	U	24	16	ug/Kg	☼	08/28/15 13:56	09/01/15 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*286*	*p X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 21:07*	*1*
2,4-Dichlorophenylacetic acid	*634*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 21:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**12.6**		2.5	0.43	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.7	1.2	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Barium	21.2	J	49.1	1.8	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Beryllium	0.49	U	0.49	0.42	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Cadmium	2.4		0.98	0.51	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Chromium	26.6		2.5	1.2	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Copper	94.8		6.1	1.6	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Manganese	194		3.7	1.3	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Nickel	10.7		9.8	1.8	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Lead	65.1		2.5	0.96	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Selenium	4.9	U	4.9	1.7	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4
Zinc	109		7.4	1.8	mg/Kg	☼	08/31/15 07:54	09/03/15 00:11	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.022	0.016	mg/Kg	☼	09/12/15 12:44	09/12/15 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.7	U	2.7	1.1	mg/Kg	☼	09/16/15 18:00	09/16/15 22:55	1
Chromium (hexavalent)	2.8	U	2.8	1.1	mg/Kg	☼	09/16/15 18:00	09/16/15 23:54	1
Cr (III)	26.6		2.0	2.0	mg/Kg			09/17/15 12:58	1
Cyanide, Total	0.023	J	0.14	0.022	mg/Kg	☼	08/27/15 15:00	08/27/15 18:06	1
Percent Solids	72.1		0.25	0.25	%			08/25/15 15:31	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-228	0.805		0.155	0.176	0.0846	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Bismuth-212	0.392	U	0.462	0.464	0.750	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Bismuth-214	0.333		0.0983	0.104	0.101	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Lead-210	-0.117	U	1.04	1.04	1.82	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Lead-212	0.532		0.120	0.138	0.113	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Lead-214	0.411		0.116	0.124	0.124	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Potassium-40	7.94		1.23	1.47	0.687	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Protactinium-231	0.185	U	0.521	0.522	1.80	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Radium-226	0.333		0.0983	0.104	0.101	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Radium-228	0.805		0.155	0.176	0.0846	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Thallium-208	0.175		0.0542	0.0572	0.0508	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Thorium-234	1.51	U	1.01	1.02	1.59	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Uranium-235	0.120	U	0.209	0.209	0.379	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Uranium-238	1.51	U	1.01	1.02	1.59	pCi/g	08/27/15 10:35	09/17/15 10:23	1
Protactinium-234m	0.000	U	3.63	3.63	5.74	pCi/g	08/27/15 10:35	09/17/15 10:23	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.882		0.198	0.212	0.0904	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	0.718		0.177	0.187	0.0614	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-232	**0.630**		0.165	0.173	0.0558	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*91.0*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	**0.885**		0.207	0.220	0.0842	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-235/236	0.0415	U	0.0514	0.0515	0.0671	pCi/g	09/01/15 10:26	09/15/15 22:38	1
Uranium-238	**0.885**		0.205	0.218	0.0538	pCi/g	09/01/15 10:26	09/15/15 22:38	1

Tracer	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*82.2*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.138**		0.184	0.204	0.101	pCi/g		09/21/15 22:06	1

Client Sample ID: TB

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-22

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/28/15 13:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/28/15 13:09	1
Acetone	**2.1**	**J**	5.0	1.7	ug/L			08/28/15 13:09	1
Methylene Chloride	**0.31**	**J B**	1.0	0.23	ug/L			08/28/15 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/28/15 13:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/28/15 13:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/28/15 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 13:09	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/28/15 13:09	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/28/15 13:09	1
Benzene	1.0	U	1.0	0.19	ug/L			08/28/15 13:09	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/28/15 13:09	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/28/15 13:09	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/28/15 13:09	1
Toluene	1.0	U	1.0	0.22	ug/L			08/28/15 13:09	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 13:09	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/28/15 13:09	1

Client Sample ID: TB

Lab Sample ID: 200-29316-22

Date Collected: 08/17/15 00:00
Matrix: Water
Date Received: 08/18/15 10:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/28/15 13:09	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/28/15 13:09	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/28/15 13:09	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/28/15 13:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/28/15 13:09	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 13:09	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 13:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/28/15 13:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/28/15 13:09	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/28/15 13:09*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*08/28/15 13:09*	*1*
4-Bromofluorobenzene	*105*		*80 - 125*		*08/28/15 13:09*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*08/28/15 13:09*	*1*

Client Sample ID: TB2

Lab Sample ID: 200-29316-23

Date Collected: 08/17/15 00:00
Matrix: Water
Date Received: 08/18/15 10:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/28/15 13:41	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/28/15 13:41	1
Acetone	**2.1**	**J**	5.0	1.7	ug/L			08/28/15 13:41	1
Methylene Chloride	**0.39**	**J B**	1.0	0.23	ug/L			08/28/15 13:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/28/15 13:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/28/15 13:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/28/15 13:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 13:41	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/28/15 13:41	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/28/15 13:41	1
Benzene	1.0	U	1.0	0.19	ug/L			08/28/15 13:41	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/28/15 13:41	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/28/15 13:41	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/28/15 13:41	1
Toluene	1.0	U	1.0	0.22	ug/L			08/28/15 13:41	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 13:41	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/28/15 13:41	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/28/15 13:41	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/28/15 13:41	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/28/15 13:41	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/28/15 13:41	1

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: TB2
Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-23
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/28/15 13:41	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 13:41	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 13:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/28/15 13:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/28/15 13:41	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/28/15 13:41*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*08/28/15 13:41*	*1*
4-Bromofluorobenzene	*106*		*80 - 125*		*08/28/15 13:41*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*08/28/15 13:41*	*1*

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(35-145)	(40-175)	(30-200)	(50-150)
200-29316-2	RXR2A/-2.8--10.9/1708215	91	106	118	99
200-29316-7	RXR3C/-11.4--11.9/17082015	94	112	130	100
200-29316-8	RXR12A/-8.8--9.9/17082015	97	132	142	103
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	123	106	160	123
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	122	136	141	126
200-29316-9	RXR12B/-9.9--10.4/17082015	72	152	170	93
200-29316-9 - RE	RXR12B/-9.9--10.4/17082015	94	113	148	103
200-29316-10	RXR12C/-10.4--10.9/17082015	95	128	154	102
200-29316-10 - RE	RXR12C/-10.4--10.9/17082015	119	110	136	123
200-29316-11	RXR11B/-9.9--10.4/17082015	105	124	165	106
200-29316-11 - RE	RXR11B/-9.9--10.4/17082015	99	125	170	107
200-29316-12	RXR11C/-10.4--10.9/17082015	95	124	153	102
200-29316-12 - RE	RXR11C/-10.4--10.9/17082015	99	129	164	108
200-29316-13	RXR10B/-9.9--10.4/17082015	99	133	166	108
200-29316-13 - RE	RXR10B/-9.9--10.4/17082015	102	143	154	102
200-29316-15	RXR9B/-9.9--10.4/17082015	94	115	141	103
200-29316-15 - RE	RXR9B/-9.9--10.4/17082015	132	107	127	130
200-29316-16	RXR9C/-10.4--10.9/17082015	98	128	170	108
200-29316-16 - RE	RXR9C/-10.4--10.9/17082015	99	117	140	110
200-29316-17	RXR1A/+1.5--10.9/17082015	86	154	159	96
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	105	141	114	116
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	105	175	122	123
200-29316-18	RXR1B/-10.9--11.4/17082015	94	113	119	102
200-29316-19	RXR1C/-11.4--11.9/17082015	109	137	140	116
200-29316-19 - RE	RXR1C/-11.4--11.9/17082015	101	106	108	106
200-29316-20	DUP001	95	135	130	105
200-29316-20 - RE	DUP001	99	109	125	108
LCS 200-93241/3	Lab Control Sample	110	114	109	109
LCS 200-93295/4	Lab Control Sample	100	103	100	99
LCS 200-93681/4	Lab Control Sample	97	100	96	98
MB 200-93241/5	Method Blank	96	101	103	102
MB 200-93295/6	Method Blank	101	107	109	106
MB 200-93681/6	Method Blank	97	101	103	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
200-29316-1	FB001_17082015	107	109	105	110
200-29316-22	TB	107	109	105	110
200-29316-23	TB2	108	109	106	111

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-125)	(50-150)
LCS 200-93314/4	Lab Control Sample	105	114	106	112
MB 200-93314/6	Method Blank	108	109	106	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	TBP	2FP	PHL
Lab Sample ID	Client Sample ID	(28-92)	(27-84)	(16-114)	(10-95)	(21-84)	(22-88)
200-29316-2	RXR2A/-2.8--10.9/1708215	84	89 X	92	65	72	75
200-29316-7	RXR3C/-11.4--11.9/17082015	67	73	108	105 X	60	64
200-29316-8	RXR12A/-8.8--9.9/17082015	69	76	59	57	62	61
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	78	89 X	73	71	69	71
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	75	84	65	67	67	68
200-29316-9	RXR12B/-9.9--10.4/17082015	76	80	55	60	64	64
200-29316-10	RXR12C/-10.4--10.9/17082015	77	84	62	64	68	70
200-29316-11	RXR11B/-9.9--10.4/17082015	64	66	77	48	55	57
200-29316-12	RXR11C/-10.4--10.9/17082015	62	63	76	49	53	55
200-29316-13	RXR10B/-9.9--10.4/17082015	67	74	73	54	59	61
200-29316-15	RXR9B/-9.9--10.4/17082015	65	70	68	47	56	57
200-29316-16	RXR9C/-10.4--10.9/17082015	58	68	58	46	54	55
200-29316-17	RXR1A/+1.5--10.9/17082015	81	84	82	64	70	65
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	93 X	97 X	84	80	80	83
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	92	100 X	85	78	79	81
200-29316-18	RXR1B/-10.9--11.4/17082015	79	76	108	82	71	77
200-29316-19	RXR1C/-11.4--11.9/17082015	85	80	96	82	72	78
200-29316-20	DUP001	73	81	85	61	61	65
LCS 460-319090/2-A	Lab Control Sample	82	86 X	87	77	77	77
LCS 460-319228/2-A	Lab Control Sample	77	82	95	87	74	76
LCS 460-319507/2-A	Lab Control Sample	86	79	97	102 X	77	83
MB 460-319090/1-A	Method Blank	80	81	94	70	77	74
MB 460-319228/1-A	Method Blank	80	82	99	83	77	80
MB 460-319507/1-A	Method Blank	74	67	90	87	67	74

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		FBP	TPH								
Lab Sample ID	Client Sample ID	(45-115)	(35-140)								
200-29316-1	FB001_17082015	80	92								
LCS 200-92966/2-A	Lab Control Sample	90	88								
MB 200-92966/1-A	Method Blank	77	88								

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(55-139)	(55-139)	(55-148)	(55-148)						
200-29316-2	RXR2A/-2.8--10.9/1708215	104	108	110	107						
200-29316-7	RXR3C/-11.4--11.9/17082015	99	100	102	98						
200-29316-8	RXR12A/-8.8--9.9/17082015	121	124	125	123						
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	115	118	118	114						
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	120	125	125	120						
200-29316-9	RXR12B/-9.9--10.4/17082015	120	122	123	121						
200-29316-10	RXR12C/-10.4--10.9/17082015	100	100	97	95						
200-29316-11	RXR11B/-9.9--10.4/17082015	128	132	131	127						
200-29316-12	RXR11C/-10.4--10.9/17082015	122	124	125	122						
200-29316-13	RXR10B/-9.9--10.4/17082015	118	126	126	123						
200-29316-15	RXR9B/-9.9--10.4/17082015	121	124	124	121						
200-29316-16	RXR9C/-10.4--10.9/17082015	116	121	122	120						
200-29316-17	RXR1A/+1.5--10.9/17082015	150 X	152 X	154 X	154 X						
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	114	119	118	115						
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	109	116	116	112						
200-29316-18	RXR1B/-10.9--11.4/17082015	120	123	124	121						
200-29316-19	RXR1C/-11.4--11.9/17082015	112	114	113	111						
200-29316-20	DUP001	128	130	130	128						
LCS 460-319418/2-A	Lab Control Sample	119	123	123	117						
MB 460-319418/1-A	Method Blank	112	117	118	115						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	TCX2	DCB1	DCB2						
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(45-115)	(45-115)						
200-29316-1	FB001_17082015	91	91	51	50						
LCS 200-93084/2-A	Lab Control Sample	101	102	103	103						
MB 200-93084/1-A	Method Blank	90	92	98	98						

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(45-125)	(45-125)
200-29316-2	RXR2A/-2.8--10.9/1708215	67	71	55	64
200-29316-7	RXR3C/-11.4--11.9/17082015	65	63	56	60
200-29316-8	RXR12A/-8.8--9.9/17082015	62	62	52	60
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	68	62	81	90
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	57	56	59	65
200-29316-9	RXR12B/-9.9--10.4/17082015	51	44	54	54
200-29316-10	RXR12C/-10.4--10.9/17082015	59	55	67	64
200-29316-11	RXR11B/-9.9--10.4/17082015	66	57	60	57
200-29316-12	RXR11C/-10.4--10.9/17082015	69	66	40 X	46
200-29316-13	RXR10B/-9.9--10.4/17082015	52	50	48	44 X
200-29316-15	RXR9B/-9.9--10.4/17082015	58	57	38 X	40 X
200-29316-16	RXR9C/-10.4--10.9/17082015	61	58	42 X	43 X
200-29316-17	RXR1A/+1.5--10.9/17082015	57	60	36 X	40 X
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	67	69	47	50
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	60	62	47	51
200-29316-18	RXR1B/-10.9--11.4/17082015	75	78	56	60
200-29316-19	RXR1C/-11.4--11.9/17082015	80	79	57	58
200-29316-20	DUP001	56	56	47	50
LCS 200-93143/2-B	Lab Control Sample	81	80	61	67
MB 200-93143/1-B	Method Blank	81	86	62	64
MB 200-93143/1-B	Method Blank	84	77	82	76

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(55-120)	(55-120)	(30-150)	(30-150)
200-29316-1	FB001_17082015	64	69	22 X	24 X
LCS 200-92892/2-A	Lab Control Sample	61	60	59	58
MB 200-92892/1-A	Method Blank	58	59	51	56

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(83-150)	(83-150)
200-29316-2	RXR2A/-2.8--10.9/1708215	281 X	199 X

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPA1 (83-150)	DCPA2 (83-150)
200-29316-7	RXR3C/-11.4--11.9/17082015	460 X	230 p X
200-29316-8	RXR12A/-8.8--9.9/17082015	412 X	460 X
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	407 X	433 X
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	411 X	475 X
200-29316-9	RXR12B/-9.9--10.4/17082015	151 p X	510 X
200-29316-10	RXR12C/-10.4--10.9/17082015	333 X	497 X
200-29316-11	RXR11B/-9.9--10.4/17082015	293 X	189 p X
200-29316-12	RXR11C/-10.4--10.9/17082015	270 X	194 X
200-29316-13	RXR10B/-9.9--10.4/17082015	460 X	327 X
200-29316-15	RXR9B/-9.9--10.4/17082015	348 X	262 X
200-29316-16	RXR9C/-10.4--10.9/17082015	386 X	342 X
200-29316-17	RXR1A/+1.5--10.9/17082015	412 X	392 X
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	386 X	438 X
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	339 p X	513 X
200-29316-18	RXR1B/-10.9--11.4/17082015	194 X	176 X
200-29316-19	RXR1C/-11.4--11.9/17082015	160 X	176 X
200-29316-20	DUP001	286 p X	634 X
LCS 460-318962/2-A	Lab Control Sample	93	85
LCS 460-319235/2-A	Lab Control Sample	156 X	165 X
LCS 460-319515/2-A	Lab Control Sample	167 X	178 X
MB 460-318962/1-A	Method Blank	99	86
MB 460-319235/1-A	Method Blank	167 X	178 X
MB 460-319515/1-A	Method Blank	170 X	178 X

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPA1 (44-150)	DCPA2 (44-150)
200-29316-1	FB001_17082015	112	108
LCS 460-317809/2-A	Lab Control Sample	142	148
LCSD 460-317809/3-A	Lab Control Sample Dup	130	137
MB 460-317809/1-A	Method Blank	122	123

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29316-2	RXR2A/-2.8--10.9/1708215	99.0
200-29316-7	RXR3C/-11.4--11.9/17082015	95.2
200-29316-8	RXR12A/-8.8--9.9/17082015	81.7
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	100
200-29316-9	RXR12B/-9.9--10.4/17082015	78.3
200-29316-10	RXR12C/-10.4--10.9/17082015	91.9
200-29316-11	RXR11B/-9.9--10.4/17082015	89.7
200-29316-12	RXR11C/-10.4--10.9/17082015	93.6
200-29316-13	RXR10B/-9.9--10.4/17082015	96.9
200-29316-15	RXR9B/-9.9--10.4/17082015	98.3
200-29316-16	RXR9C/-10.4--10.9/17082015	68.5
200-29316-17	RXR1A/+1.5--10.9/17082015	96.6
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	98.0
200-29316-18	RXR1B/-10.9--11.4/17082015	76.7
200-29316-19	RXR1C/-11.4--11.9/17082015	92.5
200-29316-20	DUP001	91.0
LCS 160-208875/2-A	Lab Control Sample	82.7
MB 160-208875/1-A	Method Blank	91.1

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Th-229 (30-110)
200-29316-1	FB001_17082015	76.8
200-29316-1 DU	FB001_17082015	84.0
LCS 160-208637/2-A	Lab Control Sample	91.0
MB 160-208637/1-A	Method Blank	91.6

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29316-2	RXR2A/-2.8--10.9/1708215	88.5
200-29316-7	RXR3C/-11.4--11.9/17082015	84.6
200-29316-8	RXR12A/-8.8--9.9/17082015	92.6
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	92.7
200-29316-9	RXR12B/-9.9--10.4/17082015	92.6
200-29316-10	RXR12C/-10.4--10.9/17082015	87.7
200-29316-11	RXR11B/-9.9--10.4/17082015	86.1
200-29316-12	RXR11C/-10.4--10.9/17082015	85.9

Tracer/Carrier Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29316-13	RXR10B/-9.9--10.4/17082015	87.5
200-29316-15	RXR9B/-9.9--10.4/17082015	84.5
200-29316-16	RXR9C/-10.4--10.9/17082015	87.9
200-29316-17	RXR1A/+1.5--10.9/17082015	96.2
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	91.2
200-29316-18	RXR1B/-10.9--11.4/17082015	92.5
200-29316-19	RXR1C/-11.4--11.9/17082015	84.5
200-29316-20	DUP001	82.2
LCS 160-208898/2-A	Lab Control Sample	87.4
MB 160-208898/1-A	Method Blank	84.9

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	U-232 (30-110)
200-29316-1	FB001_17082015	85.8
200-29316-1 DU	FB001_17082015	84.9
LCS 160-208639/2-A	Lab Control Sample	78.1
MB 160-208639/1-A	Method Blank	84.9

Tracer/Carrier Legend

U-232 = Uranium-232

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 200-93241/5
Matrix: Solid
Analysis Batch: 93241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			08/27/15 09:32	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			08/27/15 09:32	1
Acetone	5.0	U	5.0	4.1	ug/Kg			08/27/15 09:32	1
Methylene Chloride	1.23	J	5.0	0.56	ug/Kg			08/27/15 09:32	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			08/27/15 09:32	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			08/27/15 09:32	1
1,3-Dichlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/27/15 09:32	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			08/27/15 09:32	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			08/27/15 09:32	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			08/27/15 09:32	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			08/27/15 09:32	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			08/27/15 09:32	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			08/27/15 09:32	1
Benzene	5.0	U	5.0	0.43	ug/Kg			08/27/15 09:32	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			08/27/15 09:32	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			08/27/15 09:32	1
1,4-Dioxane	100	U	100	14	ug/Kg			08/27/15 09:32	1
Toluene	5.0	U	5.0	0.19	ug/Kg			08/27/15 09:32	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			08/27/15 09:32	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/27/15 09:32	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			08/27/15 09:32	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			08/27/15 09:32	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			08/27/15 09:32	1
Xylenes, Total	10	U	10	0.053	ug/Kg			08/27/15 09:32	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			08/27/15 09:32	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			08/27/15 09:32	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			08/27/15 09:32	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			08/27/15 09:32	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			08/27/15 09:32	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			08/27/15 09:32	1
1,2-Dichlorobenzene	0.163	J	5.0	0.13	ug/Kg			08/27/15 09:32	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			08/27/15 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*35 - 145*		*08/27/15 09:32*	*1*
Toluene-d8 (Surr)	*101*		*40 - 175*		*08/27/15 09:32*	*1*
4-Bromofluorobenzene	*103*		*30 - 200*		*08/27/15 09:32*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*08/27/15 09:32*	*1*

Lab Sample ID: LCS 200-93241/3
Matrix: Solid
Analysis Batch: 93241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	49.4		ug/Kg		99	75 - 120
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	80 - 120
Acetone	250	266		ug/Kg		106	70 - 120
Methylene Chloride	50.0	44.0		ug/Kg		88	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93241/3
Matrix: Solid
Analysis Batch: 93241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	75 - 125
Methyl tert-butyl ether	50.0	46.6		ug/Kg		93	70 - 120
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	80 - 125
1,1-Dichloroethane	50.0	48.4		ug/Kg		97	70 - 120
cis-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	75 - 120
2-Butanone (MEK)	250	273		ug/Kg		109	60 - 130
Chloroform	50.0	48.8		ug/Kg		98	80 - 120
1,1,1-Trichloroethane	50.0	50.4		ug/Kg		101	70 - 120
Carbon tetrachloride	50.0	48.6		ug/Kg		97	70 - 120
Benzene	50.0	49.2		ug/Kg		98	75 - 125
1,2-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 120
Trichloroethene	50.0	51.2		ug/Kg		102	75 - 120
1,4-Dioxane	1000	1140		ug/Kg		114	75 - 120
Toluene	50.0	50.5		ug/Kg		101	80 - 125
Tetrachloroethene	50.0	52.1		ug/Kg		104	80 - 125
Chlorobenzene	50.0	52.2		ug/Kg		104	80 - 125
Ethylbenzene	50.0	53.5		ug/Kg		107	80 - 125
m-Xylene & p-Xylene	50.0	53.9		ug/Kg		108	80 - 125
o-Xylene	50.0	54.0		ug/Kg		108	80 - 125
N-Propylbenzene	50.0	53.2		ug/Kg		106	80 - 125
1,3,5-Trimethylbenzene	50.0	52.0		ug/Kg		104	80 - 125
tert-Butylbenzene	50.0	51.4		ug/Kg		103	75 - 120
1,2,4-Trimethylbenzene	50.0	51.9		ug/Kg		104	80 - 125
sec-Butylbenzene	50.0	53.4		ug/Kg		107	80 - 125
1,4-Dichlorobenzene	50.0	53.2		ug/Kg		106	80 - 120
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	80 - 125
n-Butylbenzene	50.0	58.3		ug/Kg		117	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*35 - 145*
Toluene-d8 (Surr)	*114*		*40 - 175*
4-Bromofluorobenzene	*109*		*30 - 200*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 93242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	9.2	U F1	112	164	F1	ug/Kg	☼	146	75 - 120
1,1-Dichloroethene	9.2	U F1 *	112	119		ug/Kg	☼	106	80 - 120
Acetone	470	F1	560	699	F1	ug/Kg	☼	41	70 - 120
Methylene Chloride	9.2	U	112	122		ug/Kg	☼	109	75 - 120
trans-1,2-Dichloroethene	9.2	U F1	112	81.7	F1	ug/Kg	☼	73	75 - 125
Methyl tert-butyl ether	3.0	J F1	112	170	F1	ug/Kg	☼	149	70 - 120
1,3-Dichlorobenzene	9.2	U *	112	126	*	ug/Kg	☼	112	80 - 125
1,1-Dichloroethane	9.2	U F1	112	142	F1	ug/Kg	☼	126	70 - 120
cis-1,2-Dichloroethene	9.2	U	112	102		ug/Kg	☼	91	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 200-29316-8 MS — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93295 — **Prep Batch: 93242**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	180		560	633		ug/Kg	☼	81	60 - 130
Chloroform	9.2	U F1	112	130		ug/Kg	☼	116	80 - 120
1,1,1-Trichloroethane	9.2	U F1	112	127		ug/Kg	☼	113	70 - 120
Carbon tetrachloride	9.2	U F1 F2	112	54.2	F1	ug/Kg	☼	48	70 - 120
Benzene	1.2	J	112	109		ug/Kg	☼	96	75 - 125
1,2-Dichloroethane	9.2	U	112	118		ug/Kg	☼	105	70 - 120
Trichloroethene	9.2	U	112	88.8		ug/Kg	☼	79	75 - 120
1,4-Dioxane	180	U	2240	2270		ug/Kg	☼	101	75 - 120
Toluene	5.4	J	112	116	*	ug/Kg	☼	99	80 - 125
Tetrachloroethene	1.1	J F1	112	72.6	* F1	ug/Kg	☼	64	80 - 125
Chlorobenzene	9.2	U	112	101	*	ug/Kg	☼	90	80 - 125
Ethylbenzene	0.98	J F1	112	81.9	* F1	ug/Kg	☼	72	80 - 125
m-Xylene & p-Xylene	2.4	J F1	112	81.0	* F1	ug/Kg	☼	70	80 - 125
o-Xylene	9.2	U F1	112	88.8	* F1	ug/Kg	☼	79	80 - 125
N-Propylbenzene	9.2	U * F1	112	88.2	* F1	ug/Kg	☼	79	80 - 125
1,3,5-Trimethylbenzene	9.2	U * F1	112	87.6	* F1	ug/Kg	☼	78	80 - 125
tert-Butylbenzene	9.2	U * F1	112	73.5	* F1	ug/Kg	☼	66	75 - 120
1,2,4-Trimethylbenzene	9.2	U * F1	112	95.1	*	ug/Kg	☼	85	80 - 125
sec-Butylbenzene	9.2	U * F1	112	56.2	* F1	ug/Kg	☼	50	80 - 125
1,4-Dichlorobenzene	9.2	U * F1 F2	112	135	* F1	ug/Kg	☼	121	80 - 120
1,2-Dichlorobenzene	9.2	U *	112	110	*	ug/Kg	☼	98	80 - 125
n-Butylbenzene	9.2	U * F1	112	49.8	* F1	ug/Kg	☼	44	80 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*123*		*35 - 145*
Toluene-d8 (Surr)	*106*		*40 - 175*
4-Bromofluorobenzene	*160*		*30 - 200*
Dibromofluoromethane (Surr)	*123*		*50 - 150*

Lab Sample ID: 200-29316-8 MSD — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93295 — **Prep Batch: 93242**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	9.2	U F1	105	192	* F1	ug/Kg	☼	183	75 - 120	16	30
1,1-Dichloroethene	9.2	U F1 *	105	133	* F1	ug/Kg	☼	127	80 - 120	11	30
Acetone	470	F1	525	849	*	ug/Kg	☼	72	70 - 120	19	30
Methylene Chloride	9.2	U	105	124	*	ug/Kg	☼	118	75 - 120	2	30
trans-1,2-Dichloroethene	9.2	U F1	105	94.3	*	ug/Kg	☼	90	75 - 125	14	30
Methyl tert-butyl ether	3.0	J F1	105	171	* F1	ug/Kg	☼	160	70 - 120	1	30
1,3-Dichlorobenzene	9.2	U *	105	93.4	*	ug/Kg	☼	89	80 - 125	30	30
1,1-Dichloroethane	9.2	U F1	105	146	* F1	ug/Kg	☼	139	70 - 120	3	30
cis-1,2-Dichloroethene	9.2	U	105	103	*	ug/Kg	☼	98	75 - 120	1	30
2-Butanone (MEK)	180		525	764	*	ug/Kg	☼	111	60 - 130	19	30
Chloroform	9.2	U F1	105	128	* F1	ug/Kg	☼	122	80 - 120	2	30
1,1,1-Trichloroethane	9.2	U F1	105	138	* F1	ug/Kg	☼	132	70 - 120	8	30
Carbon tetrachloride	9.2	U F1 F2	105	88.1	* F2	ug/Kg	☼	84	70 - 120	48	30
Benzene	1.2	J	105	106	*	ug/Kg	☼	99	75 - 125	3	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 200-29316-8 MSD — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93295 — **Prep Batch: 93242**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	9.2	U	105	115	*	ug/Kg	☼	109	70 - 120	3	30
Trichloroethene	9.2	U	105	78.8	*	ug/Kg	☼	75	75 - 120	12	30
1,4-Dioxane	180	U	2100	2020		ug/Kg	☼	96	75 - 120	12	30
Toluene	5.4	J	105	115	*	ug/Kg	☼	105	80 - 125	1	30
Tetrachloroethene	1.1	J F1	105	71.2	* F1	ug/Kg	☼	67	80 - 125	2	30
Chlorobenzene	9.2	U	105	89.1	*	ug/Kg	☼	85	80 - 125	12	30
Ethylbenzene	0.98	J F1	105	70.8	* F1	ug/Kg	☼	67	80 - 125	15	30
m-Xylene & p-Xylene	2.4	J F1	105	75.9	* F1	ug/Kg	☼	70	80 - 125	7	30
o-Xylene	9.2	U F1	105	80.1	* F1	ug/Kg	☼	76	80 - 125	10	30
N-Propylbenzene	9.2	U * F1	105	66.4	* F1	ug/Kg	☼	63	80 - 125	28	30
1,3,5-Trimethylbenzene	9.2	U * F1	105	68.7	* F1	ug/Kg	☼	65	80 - 125	24	30
tert-Butylbenzene	9.2	U * F1	105	64.0	* F1	ug/Kg	☼	61	75 - 120	14	30
1,2,4-Trimethylbenzene	9.2	U * F1	105	78.7	* F1	ug/Kg	☼	75	80 - 125	19	30
sec-Butylbenzene	9.2	U * F1	105	46.5	* F1	ug/Kg	☼	44	80 - 125	19	30
1,4-Dichlorobenzene	9.2	U * F1 F2	105	96.5	* F2	ug/Kg	☼	92	80 - 120	33	30
1,2-Dichlorobenzene	9.2	U *	105	97.0	*	ug/Kg	☼	92	80 - 125	13	30
n-Butylbenzene	9.2	U * F1	105	41.3	* F1	ug/Kg	☼	39	80 - 125	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*35 - 145*
Toluene-d8 (Surr)	*136*		*40 - 175*
4-Bromofluorobenzene	*141*		*30 - 200*
Dibromofluoromethane (Surr)	*126*		*50 - 150*

Lab Sample ID: 200-29316-17 MS — **Client Sample ID: RXR1A/+1.5--10.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93295 — **Prep Batch: 93242**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	5.3	U F1 F2	70.4	68.0		ug/Kg	☼	97	75 - 120
1,1-Dichloroethene	5.3	U F1 *	70.4	78.5		ug/Kg	☼	112	80 - 120
Acetone	65		352	346		ug/Kg	☼	80	70 - 120
Methylene Chloride	5.3	U	70.4	78.9		ug/Kg	☼	112	75 - 120
trans-1,2-Dichloroethene	5.3	U	70.4	59.6		ug/Kg	☼	85	75 - 125
Methyl tert-butyl ether	5.3	U F1	70.4	111	F1	ug/Kg	☼	157	70 - 120
1,3-Dichlorobenzene	5.3	U *	70.4	69.1	*	ug/Kg	☼	98	80 - 125
1,1-Dichloroethane	5.3	U F1	70.4	94.9	F1	ug/Kg	☼	135	70 - 120
cis-1,2-Dichloroethene	5.3	U	70.4	61.8		ug/Kg	☼	88	75 - 120
2-Butanone (MEK)	16		352	385		ug/Kg	☼	105	60 - 130
Chloroform	5.3	U F1	70.4	87.5	F1	ug/Kg	☼	124	80 - 120
1,1,1-Trichloroethane	5.3	U F1	70.4	91.1	F1	ug/Kg	☼	129	70 - 120
Carbon tetrachloride	5.3	U	70.4	64.2		ug/Kg	☼	91	70 - 120
Benzene	5.3	U	70.4	78.1		ug/Kg	☼	111	75 - 125
1,2-Dichloroethane	5.3	U	70.4	71.2		ug/Kg	☼	101	70 - 120
Trichloroethene	5.3	U F1 F2	70.4	56.6		ug/Kg	☼	80	75 - 120
1,4-Dioxane	110	U	1410	1530		ug/Kg	☼	108	75 - 120
Toluene	5.3	U * F1	70.4	90.1	* F1	ug/Kg	☼	128	80 - 125
Tetrachloroethene	5.3	U * F1	70.4	72.1	*	ug/Kg	☼	102	80 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	5.3	U *	70.4	69.2	*	ug/Kg	☼	98	80 - 125
Ethylbenzene	0.53	J *	70.4	72.7	*	ug/Kg	☼	103	80 - 125
m-Xylene & p-Xylene	1.6	J *	70.4	68.5	*	ug/Kg	☼	95	80 - 125
o-Xylene	0.45	J * F1	70.4	86.3	*	ug/Kg	☼	122	80 - 125
N-Propylbenzene	5.3	U *	70.4	60.6	*	ug/Kg	☼	86	80 - 125
1,3,5-Trimethylbenzene	5.3	U * F1	70.4	71.4	*	ug/Kg	☼	101	80 - 125
tert-Butylbenzene	5.3	U * F1	70.4	64.8	*	ug/Kg	☼	92	75 - 120
1,2,4-Trimethylbenzene	5.3	U * F1	70.4	75.7	*	ug/Kg	☼	108	80 - 125
sec-Butylbenzene	5.3	U * F1	70.4	51.2	* F1	ug/Kg	☼	73	80 - 125
1,4-Dichlorobenzene	5.3	U *	70.4	63.4	*	ug/Kg	☼	90	80 - 120
1,2-Dichlorobenzene	5.3	U * F1	70.4	86.2	*	ug/Kg	☼	123	80 - 125
n-Butylbenzene	5.3	U * F1 F2	70.4	42.9	* F1	ug/Kg	☼	61	80 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*35 - 145*
Toluene-d8 (Surr)	*141*		*40 - 175*
4-Bromofluorobenzene	*114*		*30 - 200*
Dibromofluoromethane (Surr)	*116*		*50 - 150*

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	5.3	U F1 F2	54.4	122	* F1 F2	ug/Kg	☼	225	75 - 120	57	30
1,1-Dichloroethene	5.3	U F1 *	54.4	78.2	* F1	ug/Kg	☼	144	80 - 120	0	30
Acetone	65		272	283		ug/Kg	☼	80	70 - 120	20	30
Methylene Chloride	5.3	U	54.4	64.0	*	ug/Kg	☼	118	75 - 120	21	30
trans-1,2-Dichloroethene	5.3	U	54.4	47.2	*	ug/Kg	☼	87	75 - 125	23	30
Methyl tert-butyl ether	5.3	U F1	54.4	104	* F1	ug/Kg	☼	191	70 - 120	6	30
1,3-Dichlorobenzene	5.3	U *	54.4	64.9	*	ug/Kg	☼	119	80 - 125	6	30
1,1-Dichloroethane	5.3	U F1	54.4	88.6	* F1	ug/Kg	☼	163	70 - 120	7	30
cis-1,2-Dichloroethene	5.3	U	54.4	48.0	*	ug/Kg	☼	88	75 - 120	25	30
2-Butanone (MEK)	16		272	291		ug/Kg	☼	101	60 - 130	28	30
Chloroform	5.3	U F1	54.4	72.4	* F1	ug/Kg	☼	133	80 - 120	19	30
1,1,1-Trichloroethane	5.3	U F1	54.4	82.2	* F1	ug/Kg	☼	151	70 - 120	10	30
Carbon tetrachloride	5.3	U	54.4	50.2	*	ug/Kg	☼	92	70 - 120	24	30
Benzene	5.3	U	54.4	60.6	*	ug/Kg	☼	111	75 - 125	25	30
1,2-Dichloroethane	5.3	U	54.4	54.9	*	ug/Kg	☼	101	70 - 120	26	30
Trichloroethene	5.3	U F1 F2	54.4	37.6	* F1 F2	ug/Kg	☼	69	75 - 120	40	30
1,4-Dioxane	110	U	1090	1160		ug/Kg	☼	107	75 - 120	27	30
Toluene	5.3	U * F1	54.4	89.0	* F1	ug/Kg	☼	164	80 - 125	1	30
Tetrachloroethene	5.3	U * F1	54.4	68.6	* F1	ug/Kg	☼	126	80 - 125	5	30
Chlorobenzene	5.3	U *	54.4	56.4	*	ug/Kg	☼	104	80 - 125	20	30
Ethylbenzene	0.53	J *	54.4	62.1	*	ug/Kg	☼	113	80 - 125	16	30
m-Xylene & p-Xylene	1.6	J *	54.4	64.2	*	ug/Kg	☼	115	80 - 125	6	30
o-Xylene	0.45	J * F1	54.4	70.1	* F1	ug/Kg	☼	128	80 - 125	21	30
N-Propylbenzene	5.3	U *	54.4	66.2	*	ug/Kg	☼	122	80 - 125	9	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	5.3	U * F1	54.4	73.4	* F1	ug/Kg	☼	135	80 - 125	3	30
tert-Butylbenzene	5.3	U * F1	54.4	75.1	* F1	ug/Kg	☼	138	75 - 120	15	30
1,2,4-Trimethylbenzene	5.3	U * F1	54.4	77.7	* F1	ug/Kg	☼	143	80 - 125	3	30
sec-Butylbenzene	5.3	U * F1	54.4	69.5	* F1	ug/Kg	☼	128	80 - 125	30	30
1,4-Dichlorobenzene	5.3	U *	54.4	59.6	*	ug/Kg	☼	110	80 - 120	6	30
1,2-Dichlorobenzene	5.3	U * F1	54.4	81.2	* F1	ug/Kg	☼	149	80 - 125	6	30
n-Butylbenzene	5.3	U * F1 F2	54.4	68.2	* F2	ug/Kg	☼	125	80 - 125	45	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*35 - 145*
Toluene-d8 (Surr)	*175*		*40 - 175*
4-Bromofluorobenzene	*122*		*30 - 200*
Dibromofluoromethane (Surr)	*123*		*50 - 150*

Lab Sample ID: MB 200-93295/6
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			08/28/15 10:14	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			08/28/15 10:14	1
Acetone	5.0	U	5.0	4.1	ug/Kg			08/28/15 10:14	1
Methylene Chloride	0.805	J	5.0	0.56	ug/Kg			08/28/15 10:14	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			08/28/15 10:14	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			08/28/15 10:14	1
1,3-Dichlorobenzene	0.176	J	5.0	0.11	ug/Kg			08/28/15 10:14	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			08/28/15 10:14	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			08/28/15 10:14	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			08/28/15 10:14	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			08/28/15 10:14	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			08/28/15 10:14	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			08/28/15 10:14	1
Benzene	5.0	U	5.0	0.43	ug/Kg			08/28/15 10:14	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			08/28/15 10:14	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			08/28/15 10:14	1
1,4-Dioxane	100	U	100	14	ug/Kg			08/28/15 10:14	1
Toluene	5.0	U	5.0	0.19	ug/Kg			08/28/15 10:14	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			08/28/15 10:14	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			08/28/15 10:14	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			08/28/15 10:14	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			08/28/15 10:14	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			08/28/15 10:14	1
Xylenes, Total	10	U	10	0.053	ug/Kg			08/28/15 10:14	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			08/28/15 10:14	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			08/28/15 10:14	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			08/28/15 10:14	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			08/28/15 10:14	1
sec-Butylbenzene	0.192	J	5.0	0.11	ug/Kg			08/28/15 10:14	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93295/6
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			08/28/15 10:14	1
1,2-Dichlorobenzene	5.0	U	5.0	0.13	ug/Kg			08/28/15 10:14	1
n-Butylbenzene	0.299	J	5.0	0.26	ug/Kg			08/28/15 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*35 - 145*		*08/28/15 10:14*	*1*
Toluene-d8 (Surr)	*107*		*40 - 175*		*08/28/15 10:14*	*1*
4-Bromofluorobenzene	*109*		*30 - 200*		*08/28/15 10:14*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*		*08/28/15 10:14*	*1*

Lab Sample ID: LCS 200-93295/4
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	47.1		ug/Kg		94	75 - 120
1,1-Dichloroethene	50.0	38.8	*	ug/Kg		78	80 - 120
Acetone	250	240		ug/Kg		96	70 - 120
Methylene Chloride	50.0	42.4		ug/Kg		85	75 - 120
trans-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	75 - 125
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	70 - 120
1,3-Dichlorobenzene	50.0	50.7		ug/Kg		102	80 - 125
1,1-Dichloroethane	50.0	47.1		ug/Kg		94	70 - 120
cis-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	75 - 120
2-Butanone (MEK)	250	257		ug/Kg		103	60 - 130
Chloroform	50.0	47.1		ug/Kg		94	80 - 120
1,1,1-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 120
Carbon tetrachloride	50.0	47.0		ug/Kg		94	70 - 120
Benzene	50.0	47.7		ug/Kg		95	75 - 125
1,2-Dichloroethane	50.0	47.2		ug/Kg		95	70 - 120
Trichloroethene	50.0	50.0		ug/Kg		100	75 - 120
1,4-Dioxane	1000	1040		ug/Kg		104	75 - 120
Toluene	50.0	49.6		ug/Kg		99	80 - 125
Tetrachloroethene	50.0	49.5		ug/Kg		99	80 - 125
Chlorobenzene	50.0	50.6		ug/Kg		101	80 - 125
Ethylbenzene	50.0	51.7		ug/Kg		103	80 - 125
m-Xylene & p-Xylene	50.0	53.1		ug/Kg		106	80 - 125
o-Xylene	50.0	52.2		ug/Kg		104	80 - 125
N-Propylbenzene	50.0	51.7		ug/Kg		103	80 - 125
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	80 - 125
tert-Butylbenzene	50.0	50.5		ug/Kg		101	75 - 120
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	80 - 125
sec-Butylbenzene	50.0	52.3		ug/Kg		105	80 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	80 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	80 - 125
n-Butylbenzene	50.0	54.9		ug/Kg		110	80 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93295/4
Matrix: Solid
Analysis Batch: 93295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*35 - 145*
Toluene-d8 (Surr)	*103*		*40 - 175*
4-Bromofluorobenzene	*100*		*30 - 200*
Dibromofluoromethane (Surr)	*99*		*50 - 150*

Lab Sample ID: MB 200-93314/6
Matrix: Water
Analysis Batch: 93314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.23	ug/L			08/28/15 12:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			08/28/15 12:06	1
Acetone	5.0	U	5.0	1.7	ug/L			08/28/15 12:06	1
Methylene Chloride	0.328	J	1.0	0.23	ug/L			08/28/15 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.23	ug/L			08/28/15 12:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.21	ug/L			08/28/15 12:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1
1,1-Dichloroethane	1.0	U	1.0	0.21	ug/L			08/28/15 12:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 12:06	1
2-Butanone (MEK)	5.0	U	5.0	1.3	ug/L			08/28/15 12:06	1
Chloroform	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1
Carbon tetrachloride	1.0	U	1.0	0.22	ug/L			08/28/15 12:06	1
Benzene	1.0	U	1.0	0.19	ug/L			08/28/15 12:06	1
1,2-Dichloroethane	1.0	U	1.0	0.19	ug/L			08/28/15 12:06	1
Trichloroethene	1.0	U	1.0	0.18	ug/L			08/28/15 12:06	1
1,4-Dioxane	40	U	40	6.2	ug/L			08/28/15 12:06	1
Toluene	1.0	U	1.0	0.22	ug/L			08/28/15 12:06	1
Tetrachloroethene	1.0	U	1.0	0.22	ug/L			08/28/15 12:06	1
Chlorobenzene	1.0	U	1.0	0.18	ug/L			08/28/15 12:06	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1
m-Xylene & p-Xylene	1.0	U	1.0	0.21	ug/L			08/28/15 12:06	1
o-Xylene	1.0	U	1.0	0.23	ug/L			08/28/15 12:06	1
Xylenes, Total	2.0	U	2.0	0.21	ug/L			08/28/15 12:06	1
N-Propylbenzene	1.0	U	1.0	0.19	ug/L			08/28/15 12:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.22	ug/L			08/28/15 12:06	1
tert-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 12:06	1
sec-Butylbenzene	1.0	U	1.0	0.21	ug/L			08/28/15 12:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			08/28/15 12:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			08/28/15 12:06	1
n-Butylbenzene	1.0	U	1.0	0.20	ug/L			08/28/15 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/28/15 12:06*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*08/28/15 12:06*	*1*
4-Bromofluorobenzene	*106*		*80 - 125*		*08/28/15 12:06*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93314/6
Matrix: Water
Analysis Batch: 93314

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		50 - 150		08/28/15 12:06	1

Lab Sample ID: LCS 200-93314/4
Matrix: Water
Analysis Batch: 93314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	24.8	26.5		ug/L		107	80 - 130
1,1-Dichloroethene	24.8	24.1		ug/L		97	80 - 120
Acetone	124	133		ug/L		107	15 - 200
Methylene Chloride	24.8	24.0		ug/L		97	80 - 120
trans-1,2-Dichloroethene	24.8	26.7		ug/L		107	80 - 125
Methyl tert-butyl ether	24.8	27.3		ug/L		110	80 - 120
1,3-Dichlorobenzene	24.8	26.9		ug/L		109	80 - 125
1,1-Dichloroethane	24.8	27.1		ug/L		109	80 - 120
cis-1,2-Dichloroethene	24.8	27.2		ug/L		109	80 - 125
2-Butanone (MEK)	124	144		ug/L		116	60 - 170
Chloroform	24.8	27.3		ug/L		110	75 - 120
1,1,1-Trichloroethane	24.8	27.3		ug/L		110	75 - 120
Carbon tetrachloride	24.8	28.5		ug/L		115	75 - 120
Benzene	24.8	27.4		ug/L		110	80 - 125
1,2-Dichloroethane	24.8	27.2		ug/L		109	70 - 120
Trichloroethene	24.8	27.2		ug/L		110	75 - 120
1,4-Dioxane	496	550		ug/L		111	75 - 140
Toluene	24.8	28.4		ug/L		114	80 - 120
Tetrachloroethene	24.8	28.6		ug/L		115	80 - 120
Chlorobenzene	24.8	27.1		ug/L		109	80 - 120
Ethylbenzene	24.8	27.8		ug/L		112	80 - 125
m-Xylene & p-Xylene	24.8	28.3		ug/L		114	80 - 125
o-Xylene	24.8	28.6		ug/L		115	80 - 120
N-Propylbenzene	24.8	28.4		ug/L		115	80 - 120
1,3,5-Trimethylbenzene	24.8	28.1		ug/L		113	80 - 120
tert-Butylbenzene	24.8	28.2		ug/L		114	75 - 120
1,2,4-Trimethylbenzene	24.8	27.6		ug/L		111	80 - 120
sec-Butylbenzene	24.8	28.0		ug/L		113	80 - 120
1,4-Dichlorobenzene	24.8	26.8		ug/L		108	80 - 125
1,2-Dichlorobenzene	24.8	26.8		ug/L		108	80 - 125
n-Butylbenzene	24.8	27.8		ug/L		112	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Toluene-d8 (Surr)	114		80 - 120
4-Bromofluorobenzene	106		80 - 125
Dibromofluoromethane (Surr)	112		50 - 150

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 200-93681/6
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	0.66	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethene	5.0	U	5.0	0.28	ug/Kg			09/08/15 11:52	1
Acetone	5.0	U	5.0	4.1	ug/Kg			09/08/15 11:52	1
Methylene Chloride	5.0	U	5.0	0.56	ug/Kg			09/08/15 11:52	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.083	ug/Kg			09/08/15 11:52	1
Methyl tert-butyl ether	5.0	U	5.0	0.34	ug/Kg			09/08/15 11:52	1
1,3-Dichlorobenzene	0.177	J	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,1-Dichloroethane	5.0	U	5.0	0.45	ug/Kg			09/08/15 11:52	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
2-Butanone (MEK)	5.0	U	5.0	2.2	ug/Kg			09/08/15 11:52	1
Chloroform	5.0	U	5.0	0.44	ug/Kg			09/08/15 11:52	1
1,1,1-Trichloroethane	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
Carbon tetrachloride	5.0	U	5.0	0.054	ug/Kg			09/08/15 11:52	1
Benzene	5.0	U	5.0	0.43	ug/Kg			09/08/15 11:52	1
1,2-Dichloroethane	5.0	U	5.0	0.87	ug/Kg			09/08/15 11:52	1
Trichloroethene	5.0	U	5.0	0.57	ug/Kg			09/08/15 11:52	1
1,4-Dioxane	100	U	100	14	ug/Kg			09/08/15 11:52	1
Toluene	5.0	U	5.0	0.19	ug/Kg			09/08/15 11:52	1
Tetrachloroethene	5.0	U	5.0	0.29	ug/Kg			09/08/15 11:52	1
Chlorobenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
Ethylbenzene	5.0	U	5.0	0.068	ug/Kg			09/08/15 11:52	1
m-Xylene & p-Xylene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
o-Xylene	5.0	U	5.0	0.053	ug/Kg			09/08/15 11:52	1
Xylenes, Total	10	U	10	0.053	ug/Kg			09/08/15 11:52	1
N-Propylbenzene	5.0	U	5.0	0.31	ug/Kg			09/08/15 11:52	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.22	ug/Kg			09/08/15 11:52	1
tert-Butylbenzene	5.0	U	5.0	0.25	ug/Kg			09/08/15 11:52	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.12	ug/Kg			09/08/15 11:52	1
sec-Butylbenzene	5.0	U	5.0	0.11	ug/Kg			09/08/15 11:52	1
1,4-Dichlorobenzene	5.0	U	5.0	0.38	ug/Kg			09/08/15 11:52	1
1,2-Dichlorobenzene	0.206	J	5.0	0.13	ug/Kg			09/08/15 11:52	1
n-Butylbenzene	5.0	U	5.0	0.26	ug/Kg			09/08/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*		*09/08/15 11:52*	*1*
Toluene-d8 (Surr)	*101*		*40 - 175*		*09/08/15 11:52*	*1*
4-Bromofluorobenzene	*103*		*30 - 200*		*09/08/15 11:52*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*09/08/15 11:52*	*1*

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	50.0	49.6		ug/Kg		99	75 - 120
1,1-Dichloroethene	50.0	50.6		ug/Kg		101	80 - 120
Acetone	250	185		ug/Kg		74	70 - 120
Methylene Chloride	50.0	46.4		ug/Kg		93	75 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 200-93681/4
Matrix: Solid
Analysis Batch: 93681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	75 - 125
Methyl tert-butyl ether	50.0	45.9		ug/Kg		92	70 - 120
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	80 - 125
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 120
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	75 - 120
2-Butanone (MEK)	250	218		ug/Kg		87	60 - 130
Chloroform	50.0	48.8		ug/Kg		98	80 - 120
1,1,1-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 120
Carbon tetrachloride	50.0	51.6		ug/Kg		103	70 - 120
Benzene	50.0	50.0		ug/Kg		100	75 - 125
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 120
Trichloroethene	50.0	52.0		ug/Kg		104	75 - 120
1,4-Dioxane	1000	1070		ug/Kg		107	75 - 120
Toluene	50.0	48.6		ug/Kg		97	80 - 125
Tetrachloroethene	50.0	49.6		ug/Kg		99	80 - 125
Chlorobenzene	50.0	48.6		ug/Kg		97	80 - 125
Ethylbenzene	50.0	50.1		ug/Kg		100	80 - 125
m-Xylene & p-Xylene	50.0	50.4		ug/Kg		101	80 - 125
o-Xylene	50.0	49.5		ug/Kg		99	80 - 125
N-Propylbenzene	50.0	49.0		ug/Kg		98	80 - 125
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	80 - 125
tert-Butylbenzene	50.0	47.8		ug/Kg		96	75 - 120
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	80 - 125
sec-Butylbenzene	50.0	49.8		ug/Kg		100	80 - 125
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	80 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/Kg		92	80 - 125
n-Butylbenzene	50.0	53.0		ug/Kg		106	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*35 - 145*
Toluene-d8 (Surr)	*100*		*40 - 175*
4-Bromofluorobenzene	*96*		*30 - 200*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-319090/1-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Methylphenol	330	U	330	14	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Naphthalene	330	U	330	8.4	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/26/15 22:47	08/27/15 06:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-319090/1-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	330	U	330	8.0	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Dibenzofuran	330	U	330	10	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Fluorene	330	U	330	7.2	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Anthracene	330	U	330	31	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Pyrene	330	U	330	15	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Chrysene	330	U	330	9.0	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/26/15 22:47	08/27/15 06:23	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/26/15 22:47	08/27/15 06:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*28 - 92*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2-Fluorobiphenyl	*81*		*27 - 84*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
Terphenyl-d14 (Surr)	*94*		*16 - 114*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 95*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
2-Fluorophenol (Surr)	*77*		*21 - 84*	*08/26/15 22:47*	*08/27/15 06:23*	*1*
Phenol-d5 (Surr)	*74*		*22 - 88*	*08/26/15 22:47*	*08/27/15 06:23*	*1*

Lab Sample ID: LCS 460-319090/2-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	2800		ug/Kg		84	55 - 99
2-Methylphenol	3330	2770		ug/Kg		83	56 - 99
3 & 4 Methylphenol	3330	2840		ug/Kg		85	51 - 105
Naphthalene	3330	2890		ug/Kg		87	64 - 99
2-Methylnaphthalene	3330	2980		ug/Kg		89	64 - 102
2-Chloronaphthalene	3330	2950		ug/Kg		88	63 - 102
Acenaphthylene	3330	2900		ug/Kg		87	63 - 102
Acenaphthene	3330	2770		ug/Kg		83	59 - 102
Dibenzofuran	3330	2840		ug/Kg		85	62 - 102
Fluorene	3330	2870		ug/Kg		86	65 - 108
Hexachlorobenzene	3330	3350		ug/Kg		100	65 - 117
Pentachlorophenol	6670	5880		ug/Kg		88	47 - 115
Phenanthrene	3330	3050		ug/Kg		92	66 - 105
Anthracene	3330	3000		ug/Kg		90	66 - 105
Fluoranthene	3330	2780		ug/Kg		83	59 - 109
Pyrene	3330	2780		ug/Kg		83	55 - 126
Benzo[a]anthracene	3330	3000		ug/Kg		90	65 - 106

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-319090/2-A
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	3330	3170		ug/Kg		95	64 - 105
Benzo[b]fluoranthene	3330	3010		ug/Kg		90	67 - 116
Benzo[k]fluoranthene	3330	3020		ug/Kg		91	65 - 114
Benzo[a]pyrene	3330	3190		ug/Kg		96	68 - 111
Indeno[1,2,3-cd]pyrene	3330	4480	*	ug/Kg		135	50 - 134
Dibenz(a,h)anthracene	3330	4190		ug/Kg		126	54 - 126
Benzo[g,h,i]perylene	3330	4080		ug/Kg		122	49 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*28 - 92*
2-Fluorobiphenyl	*86*	*X*	*27 - 84*
Terphenyl-d14 (Surr)	*87*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 95*
2-Fluorophenol (Surr)	*77*		*21 - 84*
Phenol-d5 (Surr)	*77*		*22 - 88*

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	570	U	5790	4460		ug/Kg	☼	77	55 - 99
2-Methylphenol	570	U	5790	4460		ug/Kg	☼	77	56 - 99
3 & 4 Methylphenol	37	J	5790	4770		ug/Kg	☼	82	51 - 105
Naphthalene	120	J	5790	4650		ug/Kg	☼	78	64 - 99
2-Methylnaphthalene	99	J	5790	4680		ug/Kg	☼	79	64 - 102
2-Chloronaphthalene	570	U	5790	5080		ug/Kg	☼	88	63 - 102
Acenaphthylene	58	J	5790	4920		ug/Kg	☼	84	63 - 102
Acenaphthene	230	J	5790	4590		ug/Kg	☼	75	59 - 102
Dibenzofuran	170	J	5790	4750		ug/Kg	☼	79	62 - 102
Fluorene	370	J	5790	4640		ug/Kg	☼	74	65 - 108
Hexachlorobenzene	57	U	5790	5230		ug/Kg	☼	90	65 - 117
Pentachlorophenol	460	U	11600	9140		ug/Kg	☼	79	47 - 115
Phenanthrene	3300	F1	5790	5980	F1	ug/Kg	☼	46	66 - 105
Anthracene	830		5790	5100		ug/Kg	☼	74	66 - 105
Fluoranthene	4700	F1	5790	7260	F1	ug/Kg	☼	44	59 - 109
Pyrene	3200	F1	5790	5820	F1	ug/Kg	☼	45	55 - 126
Benzo[a]anthracene	1900	F1	5790	5910		ug/Kg	☼	69	65 - 106
Chrysene	2200	F1	5790	6550		ug/Kg	☼	75	64 - 105
Benzo[b]fluoranthene	2400	F1	5790	6180	F1	ug/Kg	☼	65	67 - 116
Benzo[k]fluoranthene	930		5790	5450		ug/Kg	☼	78	65 - 114
Benzo[a]pyrene	1900		5790	6370		ug/Kg	☼	77	68 - 111
Indeno[1,2,3-cd]pyrene	1800		5790	8990		ug/Kg	☼	125	50 - 134
Dibenz(a,h)anthracene	400		5790	7530		ug/Kg	☼	123	54 - 126
Benzo[g,h,i]perylene	1600		5790	8150		ug/Kg	☼	113	49 - 124

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319090

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	78		28 - 92
2-Fluorobiphenyl	89	X	27 - 84
Terphenyl-d14 (Surr)	73		16 - 114
2,4,6-Tribromophenol (Surr)	71		10 - 95
2-Fluorophenol (Surr)	69		21 - 84
Phenol-d5 (Surr)	71		22 - 88

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 319075

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	570	U	5790	4090		ug/Kg	☼	71	55 - 99	9	30
2-Methylphenol	570	U	5790	4370		ug/Kg	☼	75	56 - 99	2	30
3 & 4 Methylphenol	37	J	5790	4390		ug/Kg	☼	75	51 - 105	8	30
Naphthalene	120	J	5790	4260		ug/Kg	☼	72	64 - 99	9	30
2-Methylnaphthalene	99	J	5790	4260		ug/Kg	☼	72	64 - 102	9	30
2-Chloronaphthalene	570	U	5790	4640		ug/Kg	☼	80	63 - 102	9	30
Acenaphthylene	58	J	5790	4490		ug/Kg	☼	77	63 - 102	9	30
Acenaphthene	230	J	5790	4220		ug/Kg	☼	69	59 - 102	9	30
Dibenzofuran	170	J	5790	4360		ug/Kg	☼	72	62 - 102	9	30
Fluorene	370	J	5790	4280		ug/Kg	☼	68	65 - 108	8	30
Hexachlorobenzene	57	U	5790	4780		ug/Kg	☼	83	65 - 117	9	30
Pentachlorophenol	460	U	11600	8050		ug/Kg	☼	69	47 - 115	13	30
Phenanthrene	3300	F1	5790	5480	F1	ug/Kg	☼	37	66 - 105	9	30
Anthracene	830		5790	4680		ug/Kg	☼	66	66 - 105	9	30
Fluoranthene	4700	F1	5790	6700	F1	ug/Kg	☼	34	59 - 109	8	30
Pyrene	3200	F1	5790	5040	F1	ug/Kg	☼	32	55 - 126	14	30
Benzo[a]anthracene	1900	F1	5790	5300	F1	ug/Kg	☼	59	65 - 106	11	30
Chrysene	2200	F1	5790	5720	F1	ug/Kg	☼	61	64 - 105	13	30
Benzo[b]fluoranthene	2400	F1	5790	6050	F1	ug/Kg	☼	63	67 - 116	2	30
Benzo[k]fluoranthene	930		5790	4830		ug/Kg	☼	67	65 - 114	12	30
Benzo[a]pyrene	1900		5790	5950		ug/Kg	☼	69	68 - 111	7	30
Indeno[1,2,3-cd]pyrene	1800		5790	8490		ug/Kg	☼	116	50 - 134	6	30
Dibenz(a,h)anthracene	400		5790	7060		ug/Kg	☼	115	54 - 126	6	30
Benzo[g,h,i]perylene	1600		5790	7360		ug/Kg	☼	99	49 - 124	10	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	75		28 - 92
2-Fluorobiphenyl	84		27 - 84
Terphenyl-d14 (Surr)	65		16 - 114
2,4,6-Tribromophenol (Surr)	67		10 - 95
2-Fluorophenol (Surr)	67		21 - 84
Phenol-d5 (Surr)	68		22 - 88

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-319228/1-A
Matrix: Solid
Analysis Batch: 319391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
2-Methylphenol	330	U	330	14	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Naphthalene	330	U	330	8.4	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Acenaphthene	330	U	330	8.0	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Dibenzofuran	330	U	330	10	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Fluorene	330	U	330	7.2	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Anthracene	330	U	330	31	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Pyrene	330	U	330	15	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Chrysene	330	U	330	9.0	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/27/15 10:55	08/28/15 05:36	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/27/15 10:55	08/28/15 05:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*28 - 92*	*08/27/15 10:55*	*08/28/15 05:36*	*1*
2-Fluorobiphenyl	*82*		*27 - 84*	*08/27/15 10:55*	*08/28/15 05:36*	*1*
Terphenyl-d14 (Surr)	*99*		*16 - 114*	*08/27/15 10:55*	*08/28/15 05:36*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 95*	*08/27/15 10:55*	*08/28/15 05:36*	*1*
2-Fluorophenol (Surr)	*77*		*21 - 84*	*08/27/15 10:55*	*08/28/15 05:36*	*1*
Phenol-d5 (Surr)	*80*		*22 - 88*	*08/27/15 10:55*	*08/28/15 05:36*	*1*

Lab Sample ID: LCS 460-319228/2-A
Matrix: Solid
Analysis Batch: 319391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	2630		ug/Kg		79	55 - 99
2-Methylphenol	3330	2730		ug/Kg		82	56 - 99
3 & 4 Methylphenol	3330	2770		ug/Kg		83	51 - 105
Naphthalene	3330	2820		ug/Kg		85	64 - 99
2-Methylnaphthalene	3330	2930		ug/Kg		88	64 - 102
2-Chloronaphthalene	3330	2890		ug/Kg		87	63 - 102
Acenaphthylene	3330	3020		ug/Kg		90	63 - 102
Acenaphthene	3330	3130		ug/Kg		94	59 - 102
Dibenzofuran	3330	3010		ug/Kg		90	62 - 102
Fluorene	3330	3020		ug/Kg		90	65 - 108

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-319228/2-A
Matrix: Solid
Analysis Batch: 319391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	3330	3200		ug/Kg		96	65 - 117
Pentachlorophenol	6670	6070		ug/Kg		91	47 - 115
Phenanthrene	3330	3030		ug/Kg		91	66 - 105
Anthracene	3330	3080		ug/Kg		92	66 - 105
Fluoranthene	3330	3010		ug/Kg		90	59 - 109
Pyrene	3330	3250		ug/Kg		98	55 - 126
Benzo[a]anthracene	3330	3010		ug/Kg		90	65 - 106
Chrysene	3330	3220		ug/Kg		97	64 - 105
Benzo[b]fluoranthene	3330	3370		ug/Kg		101	67 - 116
Benzo[k]fluoranthene	3330	3420		ug/Kg		103	65 - 114
Benzo[a]pyrene	3330	3350		ug/Kg		101	68 - 111
Indeno[1,2,3-cd]pyrene	3330	2530		ug/Kg		76	50 - 134
Dibenz(a,h)anthracene	3330	2600		ug/Kg		78	54 - 126
Benzo[g,h,i]perylene	3330	2520		ug/Kg		76	49 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*77*		*28 - 92*
2-Fluorobiphenyl	*82*		*27 - 84*
Terphenyl-d14 (Surr)	*95*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 95*
2-Fluorophenol (Surr)	*74*		*21 - 84*
Phenol-d5 (Surr)	*76*		*22 - 88*

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 319376

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	420	U	4220	3290		ug/Kg	☼	78	55 - 99
2-Methylphenol	420	U	4220	3740		ug/Kg	☼	89	56 - 99
3 & 4 Methylphenol	420	U	4220	3580		ug/Kg	☼	85	51 - 105
Naphthalene	420	U	4220	3780		ug/Kg	☼	90	64 - 99
2-Methylnaphthalene	420	U	4220	3740		ug/Kg	☼	89	64 - 102
2-Chloronaphthalene	420	U	4220	3820		ug/Kg	☼	91	63 - 102
Acenaphthylene	420	U	4220	3880		ug/Kg	☼	92	63 - 102
Acenaphthene	420	U	4220	3830		ug/Kg	☼	91	59 - 102
Dibenzofuran	420	U	4220	3820		ug/Kg	☼	91	62 - 102
Fluorene	420	U	4220	3720		ug/Kg	☼	88	65 - 108
Hexachlorobenzene	42	U	4220	4190		ug/Kg	☼	99	65 - 117
Pentachlorophenol	340	U	8430	6830		ug/Kg	☼	81	47 - 115
Phenanthrene	25	J	4220	3980		ug/Kg	☼	94	66 - 105
Anthracene	420	U	4220	3890		ug/Kg	☼	92	66 - 105
Fluoranthene	42	J	4220	4080		ug/Kg	☼	96	59 - 109
Pyrene	67	J	4220	3520		ug/Kg	☼	82	55 - 126
Benzo[a]anthracene	42	U	4220	4150		ug/Kg	☼	98	65 - 106
Chrysene	420	U	4220	4020		ug/Kg	☼	95	64 - 105
Benzo[b]fluoranthene	48		4220	3960		ug/Kg	☼	93	67 - 116
Benzo[k]fluoranthene	24	J	4220	3450		ug/Kg	☼	81	65 - 114

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 319376

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	35	J	4220	3920		ug/Kg	☼	92	68 - 111
Indeno[1,2,3-cd]pyrene	42	U F1	4220	5480		ug/Kg	☼	130	50 - 134
Dibenz(a,h)anthracene	42	U F1	4220	5150		ug/Kg	☼	122	54 - 126
Benzo[g,h,i]perylene	36	J F1	4220	5250		ug/Kg	☼	124	49 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*	*X*	*28 - 92*
2-Fluorobiphenyl	*97*	*X*	*27 - 84*
Terphenyl-d14 (Surr)	*84*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 95*
2-Fluorophenol (Surr)	*80*		*21 - 84*
Phenol-d5 (Surr)	*83*		*22 - 88*

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 319376

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	420	U	4220	3300		ug/Kg	☼	78	55 - 99	0	30
2-Methylphenol	420	U	4220	3650		ug/Kg	☼	86	56 - 99	2	30
3 & 4 Methylphenol	420	U	4220	3690		ug/Kg	☼	87	51 - 105	3	30
Naphthalene	420	U	4220	3870		ug/Kg	☼	92	64 - 99	2	30
2-Methylnaphthalene	420	U	4220	3890		ug/Kg	☼	92	64 - 102	4	30
2-Chloronaphthalene	420	U	4220	4020		ug/Kg	☼	95	63 - 102	5	30
Acenaphthylene	420	U	4220	4040		ug/Kg	☼	96	63 - 102	4	30
Acenaphthene	420	U	4220	3980		ug/Kg	☼	94	59 - 102	4	30
Dibenzofuran	420	U	4220	3930		ug/Kg	☼	93	62 - 102	3	30
Fluorene	420	U	4220	3870		ug/Kg	☼	92	65 - 108	4	30
Hexachlorobenzene	42	U	4220	4480		ug/Kg	☼	106	65 - 117	7	30
Pentachlorophenol	340	U	8450	6080		ug/Kg	☼	72	47 - 115	12	30
Phenanthrene	25	J	4220	4260		ug/Kg	☼	100	66 - 105	7	30
Anthracene	420	U	4220	4120		ug/Kg	☼	97	66 - 105	6	30
Fluoranthene	42	J	4220	4200		ug/Kg	☼	98	59 - 109	3	30
Pyrene	67	J	4220	3700		ug/Kg	☼	86	55 - 126	5	30
Benzo[a]anthracene	42	U	4220	4320		ug/Kg	☼	102	65 - 106	4	30
Chrysene	420	U	4220	4430		ug/Kg	☼	105	64 - 105	10	30
Benzo[b]fluoranthene	48		4220	3960		ug/Kg	☼	93	67 - 116	0	30
Benzo[k]fluoranthene	24	J	4220	3770		ug/Kg	☼	89	65 - 114	9	30
Benzo[a]pyrene	35	J	4220	4240		ug/Kg	☼	99	68 - 111	8	30
Indeno[1,2,3-cd]pyrene	42	U F1	4220	5790	F1	ug/Kg	☼	137	50 - 134	5	30
Dibenz(a,h)anthracene	42	U F1	4220	5520	F1	ug/Kg	☼	131	54 - 126	7	30
Benzo[g,h,i]perylene	36	J F1	4220	5670	F1	ug/Kg	☼	133	49 - 124	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*92*		*28 - 92*
2-Fluorobiphenyl	*100*	*X*	*27 - 84*
Terphenyl-d14 (Surr)	*85*		*16 - 114*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 319376

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319228

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		10 - 95
2-Fluorophenol (Surr)	79		21 - 84
Phenol-d5 (Surr)	81		22 - 88

Lab Sample ID: MB 460-319507/1-A
Matrix: Solid
Analysis Batch: 319880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	330	U	330	11	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
2-Methylphenol	330	U	330	14	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
3 & 4 Methylphenol	330	U	330	8.8	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Naphthalene	330	U	330	8.4	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Acenaphthylene	330	U	330	8.5	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Acenaphthene	330	U	330	8.0	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Dibenzofuran	330	U	330	10	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Fluorene	330	U	330	7.2	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Hexachlorobenzene	33	U	33	13	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Pentachlorophenol	270	U	270	40	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Phenanthrene	330	U	330	8.8	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Anthracene	330	U	330	31	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Fluoranthene	330	U	330	9.8	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Pyrene	330	U	330	15	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Chrysene	330	U	330	9.0	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		08/28/15 13:08	08/31/15 15:24	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		08/28/15 13:08	08/31/15 15:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	74		28 - 92	08/28/15 13:08	08/31/15 15:24	1
2-Fluorobiphenyl	67		27 - 84	08/28/15 13:08	08/31/15 15:24	1
Terphenyl-d14 (Surr)	90		16 - 114	08/28/15 13:08	08/31/15 15:24	1
2,4,6-Tribromophenol (Surr)	87		10 - 95	08/28/15 13:08	08/31/15 15:24	1
2-Fluorophenol (Surr)	67		21 - 84	08/28/15 13:08	08/31/15 15:24	1
Phenol-d5 (Surr)	74		22 - 88	08/28/15 13:08	08/31/15 15:24	1

Lab Sample ID: LCS 460-319507/2-A
Matrix: Solid
Analysis Batch: 319880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3330	3060		ug/Kg		92	55 - 99

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-319507/2-A
Matrix: Solid
Analysis Batch: 319880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	3330	3050		ug/Kg		92	56 - 99
3 & 4 Methylphenol	3330	3160		ug/Kg		95	51 - 105
Naphthalene	3330	2850		ug/Kg		85	64 - 99
2-Methylnaphthalene	3330	3060		ug/Kg		92	64 - 102
2-Chloronaphthalene	3330	2830		ug/Kg		85	63 - 102
Acenaphthylene	3330	3000		ug/Kg		90	63 - 102
Acenaphthene	3330	2870		ug/Kg		86	59 - 102
Dibenzofuran	3330	2940		ug/Kg		88	62 - 102
Fluorene	3330	3030		ug/Kg		91	65 - 108
Hexachlorobenzene	3330	3440		ug/Kg		103	65 - 117
Pentachlorophenol	6670	6480		ug/Kg		97	47 - 115
Phenanthrene	3330	3000		ug/Kg		90	66 - 105
Anthracene	3330	3020		ug/Kg		91	66 - 105
Fluoranthene	3330	2880		ug/Kg		87	59 - 109
Pyrene	3330	3290		ug/Kg		99	55 - 126
Benzo[a]anthracene	3330	3150		ug/Kg		94	65 - 106
Chrysene	3330	3070		ug/Kg		92	64 - 105
Benzo[b]fluoranthene	3330	3280		ug/Kg		99	67 - 116
Benzo[k]fluoranthene	3330	3230		ug/Kg		97	65 - 114
Benzo[a]pyrene	3330	3270		ug/Kg		98	68 - 111
Indeno[1,2,3-cd]pyrene	3330	3000		ug/Kg		90	50 - 134
Dibenz(a,h)anthracene	3330	2990		ug/Kg		90	54 - 126
Benzo[g,h,i]perylene	3330	2840		ug/Kg		85	49 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*86*		*28 - 92*
2-Fluorobiphenyl	*79*		*27 - 84*
Terphenyl-d14 (Surr)	*97*		*16 - 114*
2,4,6-Tribromophenol (Surr)	*102*	*X*	*10 - 95*
2-Fluorophenol (Surr)	*77*		*21 - 84*
Phenol-d5 (Surr)	*83*		*22 - 88*

Lab Sample ID: MB 200-92966/1-A
Matrix: Water
Analysis Batch: 93566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	10	U	10	1.5	ug/L		08/20/15 10:33	09/03/15 12:46	1
2-Methylphenol	10	U	10	1.8	ug/L		08/20/15 10:33	09/03/15 12:46	1
3 & 4 Methylphenol	10	U	10	1.0	ug/L		08/20/15 10:33	09/03/15 12:46	1
Naphthalene	10	U	10	1.3	ug/L		08/20/15 10:33	09/03/15 12:46	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		08/20/15 10:33	09/03/15 12:46	1
2-Chloronaphthalene	10	U	10	1.3	ug/L		08/20/15 10:33	09/03/15 12:46	1
Acenaphthylene	10	U	10	0.92	ug/L		08/20/15 10:33	09/03/15 12:46	1
Acenaphthene	10	U	10	0.92	ug/L		08/20/15 10:33	09/03/15 12:46	1
Dibenzofuran	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Fluorene	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Hexachlorobenzene	10	U	10	1.0	ug/L		08/20/15 10:33	09/03/15 12:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 200-92966/1-A
Matrix: Water
Analysis Batch: 93566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	25	U	25	12	ug/L		08/20/15 10:33	09/03/15 12:46	1
Phenanthrene	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Anthracene	10	U	10	1.4	ug/L		08/20/15 10:33	09/03/15 12:46	1
Fluoranthene	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Pyrene	10	U	10	1.5	ug/L		08/20/15 10:33	09/03/15 12:46	1
Benzo[a]anthracene	10	U	10	1.3	ug/L		08/20/15 10:33	09/03/15 12:46	1
Chrysene	10	U	10	1.4	ug/L		08/20/15 10:33	09/03/15 12:46	1
Benzo[b]fluoranthene	10	U	10	2.0	ug/L		08/20/15 10:33	09/03/15 12:46	1
Benzo[k]fluoranthene	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Benzo[a]pyrene	10	U	10	0.87	ug/L		08/20/15 10:33	09/03/15 12:46	1
Indeno[1,2,3-cd]pyrene	10	U	10	0.89	ug/L		08/20/15 10:33	09/03/15 12:46	1
Dibenz(a,h)anthracene	10	U	10	1.2	ug/L		08/20/15 10:33	09/03/15 12:46	1
Benzo[g,h,i]perylene	10	U	10	1.3	ug/L		08/20/15 10:33	09/03/15 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*45 - 115*	*08/20/15 10:33*	*09/03/15 12:46*	*1*
Terphenyl-d14 (Surr)	*88*		*35 - 140*	*08/20/15 10:33*	*09/03/15 12:46*	*1*

Lab Sample ID: LCS 200-92966/2-A
Matrix: Water
Analysis Batch: 93566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	50.0	17.8		ug/L		36	20 - 70
2-Methylphenol	50.0	34.5		ug/L		69	55 - 110
3 & 4 Methylphenol	50.0	33.1		ug/L		66	50 - 100
Naphthalene	50.0	37.4		ug/L		75	60 - 115
2-Methylnaphthalene	50.0	36.8		ug/L		74	60 - 120
2-Chloronaphthalene	50.0	39.3		ug/L		79	55 - 115
Acenaphthylene	50.0	39.8		ug/L		80	60 - 115
Acenaphthene	50.0	37.4		ug/L		75	60 - 115
Dibenzofuran	50.0	39.6		ug/L		79	60 - 115
Fluorene	50.0	41.8		ug/L		84	65 - 120
Hexachlorobenzene	50.0	34.2		ug/L		68	60 - 120
Pentachlorophenol	100	73.0		ug/L		73	25 - 130
Phenanthrene	50.0	40.1		ug/L		80	60 - 115
Anthracene	50.0	40.0		ug/L		80	60 - 120
Fluoranthene	50.0	41.7		ug/L		83	55 - 125
Pyrene	50.0	37.4		ug/L		75	50 - 135
Benzo[a]anthracene	50.0	36.9		ug/L		74	60 - 120
Chrysene	50.0	39.0		ug/L		78	65 - 120
Benzo[b]fluoranthene	50.0	38.8		ug/L		78	35 - 150
Benzo[k]fluoranthene	50.0	38.1		ug/L		76	60 - 130
Benzo[a]pyrene	50.0	34.5		ug/L		69	50 - 130
Indeno[1,2,3-cd]pyrene	50.0	28.4		ug/L		57	30 - 140
Dibenz(a,h)anthracene	50.0	28.0		ug/L		56	30 - 145
Benzo[g,h,i]perylene	50.0	28.8		ug/L		58	35 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 200-92966/2-A
Matrix: Water
Analysis Batch: 93566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92966

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*45 - 115*
Terphenyl-d14 (Surr)	*88*		*35 - 140*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-319418/1-A
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	2.0	U	2.0	0.61	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
gamma-BHC (Lindane)	2.0	U	2.0	0.60	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
beta-BHC	2.0	U	2.0	0.65	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
delta-BHC	2.0	U	2.0	0.73	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Heptachlor	6.7	U	6.7	0.86	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Aldrin	6.7	U	6.7	0.81	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
gamma-Chlordane	6.7	U	6.7	1.5	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
alpha-Chlordane	6.7	U	6.7	1.1	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
4,4'-DDE	6.7	U	6.7	0.97	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Endosulfan I	6.7	U	6.7	0.93	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Dieldrin	2.0	U	2.0	0.87	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Endrin	6.7	U	6.7	0.85	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
4,4'-DDD	6.7	U	6.7	0.88	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Endosulfan II	6.7	U	6.7	1.1	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
4,4'-DDT	6.7	U	6.7	0.69	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Endosulfan sulfate	6.7	U	6.7	0.78	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Chlordane (technical)	67	U	67	30	ug/Kg		08/28/15 07:02	08/31/15 20:11	1
Mirex	6.7	U	6.7	1.3	ug/Kg		08/28/15 07:02	08/31/15 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*55 - 139*	*08/28/15 07:02*	*08/31/15 20:11*	*1*
Tetrachloro-m-xylene	*117*		*55 - 139*	*08/28/15 07:02*	*08/31/15 20:11*	*1*
DCB Decachlorobiphenyl	*118*		*55 - 148*	*08/28/15 07:02*	*08/31/15 20:11*	*1*
DCB Decachlorobiphenyl	*115*		*55 - 148*	*08/28/15 07:02*	*08/31/15 20:11*	*1*

Lab Sample ID: LCS 460-319418/2-A
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	133	167		ug/Kg		125	61 - 137
alpha-BHC	133	173		ug/Kg		129	61 - 137
gamma-BHC (Lindane)	133	175		ug/Kg		131	61 - 138
gamma-BHC (Lindane)	133	167		ug/Kg		126	61 - 138
beta-BHC	133	162		ug/Kg		121	59 - 136
beta-BHC	133	148		ug/Kg		111	59 - 136
delta-BHC	133	171		ug/Kg		128	60 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-319418/2-A
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
delta-BHC	133	162		ug/Kg		122	60 - 139
Heptachlor	133	191	*	ug/Kg		143	61 - 135
Heptachlor	133	170		ug/Kg		127	61 - 135
Aldrin	133	168		ug/Kg		126	61 - 133
Aldrin	133	167		ug/Kg		125	61 - 133
gamma-Chlordane	133	168		ug/Kg		126	60 - 131
gamma-Chlordane	133	167		ug/Kg		125	60 - 131
alpha-Chlordane	133	164		ug/Kg		123	57 - 136
alpha-Chlordane	133	158		ug/Kg		119	57 - 136
4,4'-DDE	133	165		ug/Kg		124	61 - 135
4,4'-DDE	133	163		ug/Kg		122	61 - 135
Endosulfan I	133	165		ug/Kg		124	60 - 135
Endosulfan I	133	164		ug/Kg		123	60 - 135
Dieldrin	133	173		ug/Kg		130	61 - 137
Dieldrin	133	171		ug/Kg		128	61 - 137
Endrin	133	164		ug/Kg		123	59 - 133
Endrin	133	161		ug/Kg		121	59 - 133
4,4'-DDD	133	179		ug/Kg		135	61 - 140
4,4'-DDD	133	176		ug/Kg		132	61 - 140
Endosulfan II	133	167		ug/Kg		125	61 - 130
Endosulfan II	133	165		ug/Kg		124	61 - 130
4,4'-DDT	133	217	*	ug/Kg		163	59 - 133
4,4'-DDT	133	193	*	ug/Kg		145	59 - 133
Endosulfan sulfate	133	171		ug/Kg		128	60 - 129
Endosulfan sulfate	133	161		ug/Kg		121	60 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*55 - 139*
Tetrachloro-m-xylene	*123*		*55 - 139*
DCB Decachlorobiphenyl	*123*		*55 - 148*
DCB Decachlorobiphenyl	*117*		*55 - 148*

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	3.5	U	232	271		ug/Kg	☼	117	61 - 137
alpha-BHC	3.5	U	232	280		ug/Kg	☼	121	61 - 137
gamma-BHC (Lindane)	3.5	U	232	283		ug/Kg	☼	122	61 - 138
gamma-BHC (Lindane)	3.5	U	232	275		ug/Kg	☼	119	61 - 138
beta-BHC	3.5	U	232	263		ug/Kg	☼	113	59 - 136
beta-BHC	3.5	U	232	243		ug/Kg	☼	105	59 - 136
delta-BHC	3.5	U	232	275		ug/Kg	☼	118	60 - 139
delta-BHC	3.5	U	232	266		ug/Kg	☼	115	60 - 139
Heptachlor	12	U	232	306		ug/Kg	☼	132	61 - 135
Heptachlor	12	U F1 *	232	273		ug/Kg	☼	118	61 - 135
Aldrin	12	U	232	268		ug/Kg	☼	116	61 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29316-8 MS — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320005 — **Prep Batch: 319418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	12	U	232	268		ug/Kg	☼	116	61 - 133
gamma-Chlordane	12	U	232	274		ug/Kg	☼	118	60 - 131
gamma-Chlordane	12	U	232	267		ug/Kg	☼	115	60 - 131
alpha-Chlordane	12	U	232	263		ug/Kg	☼	114	57 - 136
alpha-Chlordane	12	U	232	255		ug/Kg	☼	110	57 - 136
4,4'-DDE	12	U	232	267		ug/Kg	☼	115	61 - 135
4,4'-DDE	12	U	232	262		ug/Kg	☼	113	61 - 135
Endosulfan I	12	U	232	266		ug/Kg	☼	115	60 - 135
Endosulfan I	12	U	232	263		ug/Kg	☼	114	60 - 135
Dieldrin	3.5	U	232	279		ug/Kg	☼	120	61 - 137
Dieldrin	3.5	U	232	274		ug/Kg	☼	118	61 - 137
Endrin	12	U	232	261		ug/Kg	☼	113	59 - 133
Endrin	12	U	232	256		ug/Kg	☼	110	59 - 133
4,4'-DDD	12	U	232	286		ug/Kg	☼	124	61 - 140
4,4'-DDD	12	U	232	282		ug/Kg	☼	122	61 - 140
Endosulfan II	12	U	232	269		ug/Kg	☼	116	61 - 130
Endosulfan II	12	U	232	264		ug/Kg	☼	114	61 - 130
4,4'-DDT	12	U F1 *	232	348	F1	ug/Kg	☼	150	59 - 133
4,4'-DDT	12	U F1 *	232	309		ug/Kg	☼	133	59 - 133
Endosulfan sulfate	12	U	232	278		ug/Kg	☼	120	60 - 129
Endosulfan sulfate	12	U	232	256		ug/Kg	☼	110	60 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*115*		*55 - 139*
Tetrachloro-m-xylene	*118*		*55 - 139*
DCB Decachlorobiphenyl	*118*		*55 - 148*
DCB Decachlorobiphenyl	*114*		*55 - 148*

Lab Sample ID: 200-29316-8 MSD — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320005 — **Prep Batch: 319418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	3.5	U	232	288		ug/Kg	☼	124	61 - 137	6	30
alpha-BHC	3.5	U	232	298		ug/Kg	☼	128	61 - 137	6	30
gamma-BHC (Lindane)	3.5	U	232	301		ug/Kg	☼	130	61 - 138	6	30
gamma-BHC (Lindane)	3.5	U	232	296		ug/Kg	☼	128	61 - 138	7	30
beta-BHC	3.5	U	232	281		ug/Kg	☼	121	59 - 136	7	30
beta-BHC	3.5	U	232	262		ug/Kg	☼	113	59 - 136	8	30
delta-BHC	3.5	U	232	292		ug/Kg	☼	126	60 - 139	6	30
delta-BHC	3.5	U	232	285		ug/Kg	☼	123	60 - 139	7	30
Heptachlor	12	U	232	325	F1	ug/Kg	☼	140	61 - 135	6	30
Heptachlor	12	U F1 *	232	290		ug/Kg	☼	125	61 - 135	6	30
Aldrin	12	U	232	285		ug/Kg	☼	123	61 - 133	6	30
Aldrin	12	U	232	285		ug/Kg	☼	123	61 - 133	6	30
gamma-Chlordane	12	U	232	289		ug/Kg	☼	125	60 - 131	5	30
gamma-Chlordane	12	U	232	284		ug/Kg	☼	123	60 - 131	6	30
alpha-Chlordane	12	U	232	280		ug/Kg	☼	121	57 - 136	6	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29316-8 MSD — **Client Sample ID: RXR12A/-8.8--9.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320005 — **Prep Batch: 319418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane	12	U	232	271		ug/Kg	☼	117	57 - 136	6	30
4,4'-DDE	12	U	232	283		ug/Kg	☼	122	61 - 135	6	30
4,4'-DDE	12	U	232	279		ug/Kg	☼	120	61 - 135	6	30
Endosulfan I	12	U	232	282		ug/Kg	☼	122	60 - 135	6	30
Endosulfan I	12	U	232	280		ug/Kg	☼	121	60 - 135	6	30
Dieldrin	3.5	U	232	296		ug/Kg	☼	128	61 - 137	6	30
Dieldrin	3.5	U	232	291		ug/Kg	☼	126	61 - 137	6	30
Endrin	12	U	232	276		ug/Kg	☼	119	59 - 133	6	30
Endrin	12	U	232	272		ug/Kg	☼	117	59 - 133	6	30
4,4'-DDD	12	U	232	304		ug/Kg	☼	131	61 - 140	6	30
4,4'-DDD	12	U	232	301		ug/Kg	☼	130	61 - 140	6	30
Endosulfan II	12	U	232	285		ug/Kg	☼	123	61 - 130	6	30
Endosulfan II	12	U	232	281		ug/Kg	☼	121	61 - 130	6	30
4,4'-DDT	12	U F1 *	232	369	F1	ug/Kg	☼	159	59 - 133	6	30
4,4'-DDT	12	U F1 *	232	329	F1	ug/Kg	☼	142	59 - 133	6	30
Endosulfan sulfate	12	U	232	294		ug/Kg	☼	127	60 - 129	6	30
Endosulfan sulfate	12	U	232	271		ug/Kg	☼	117	60 - 129	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*120*		*55 - 139*
Tetrachloro-m-xylene	*125*		*55 - 139*
DCB Decachlorobiphenyl	*125*		*55 - 148*
DCB Decachlorobiphenyl	*120*		*55 - 148*

Lab Sample ID: 200-29316-17 MS — **Client Sample ID: RXR1A/+1.5--10.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 320005 — **Prep Batch: 319418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	2.5	U	169	195		ug/Kg	☼	115	61 - 137
alpha-BHC	2.5	U	169	203		ug/Kg	☼	120	61 - 137
gamma-BHC (Lindane)	2.5	U	169	204		ug/Kg	☼	120	61 - 138
gamma-BHC (Lindane)	2.5	U	169	204		ug/Kg	☼	120	61 - 138
beta-BHC	2.5	U	169	191		ug/Kg	☼	113	59 - 136
beta-BHC	2.5	U	169	183		ug/Kg	☼	108	59 - 136
delta-BHC	2.5	U	169	198		ug/Kg	☼	117	60 - 139
delta-BHC	2.5	U	169	198		ug/Kg	☼	117	60 - 139
Heptachlor	8.5	U	169	221		ug/Kg	☼	130	61 - 135
Heptachlor	8.5	U *	169	202		ug/Kg	☼	119	61 - 135
Aldrin	8.5	U	169	194		ug/Kg	☼	115	61 - 133
Aldrin	8.5	U	169	196		ug/Kg	☼	116	61 - 133
gamma-Chlordane	8.5	U	169	193		ug/Kg	☼	114	60 - 131
gamma-Chlordane	8.5	U	169	194		ug/Kg	☼	115	60 - 131
alpha-Chlordane	8.5	U	169	190		ug/Kg	☼	112	57 - 136
alpha-Chlordane	8.5	U	169	184		ug/Kg	☼	109	57 - 136
4,4'-DDE	8.5	U	169	192		ug/Kg	☼	113	61 - 135
4,4'-DDE	8.5	U	169	189		ug/Kg	☼	112	61 - 135
Endosulfan I	8.5	U	169	192		ug/Kg	☼	113	60 - 135

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan I	8.5	U	169	191		ug/Kg	☼	113	60 - 135
Dieldrin	2.5	U	169	201		ug/Kg	☼	119	61 - 137
Dieldrin	2.5	U	169	198		ug/Kg	☼	117	61 - 137
Endrin	8.5	U	169	189		ug/Kg	☼	112	59 - 133
Endrin	8.5	U	169	186		ug/Kg	☼	110	59 - 133
4,4'-DDD	8.5	U	169	208		ug/Kg	☼	123	61 - 140
4,4'-DDD	8.5	U	169	205		ug/Kg	☼	121	61 - 140
Endosulfan II	8.5	U	169	194		ug/Kg	☼	115	61 - 130
Endosulfan II	8.5	U	169	192		ug/Kg	☼	113	61 - 130
4,4'-DDT	8.5	U *	169	250	F1	ug/Kg	☼	148	59 - 133
4,4'-DDT	8.5	U F1 *	169	223		ug/Kg	☼	132	59 - 133
Endosulfan sulfate	8.5	U	169	201		ug/Kg	☼	119	60 - 129
Endosulfan sulfate	8.5	U	169	187		ug/Kg	☼	111	60 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*114*		*55 - 139*
Tetrachloro-m-xylene	*119*		*55 - 139*
DCB Decachlorobiphenyl	*118*		*55 - 148*
DCB Decachlorobiphenyl	*115*		*55 - 148*

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-BHC	2.5	U	169	191		ug/Kg	☼	113	61 - 137	2	30
alpha-BHC	2.5	U	169	201		ug/Kg	☼	119	61 - 137	1	30
gamma-BHC (Lindane)	2.5	U	169	201		ug/Kg	☼	119	61 - 138	1	30
gamma-BHC (Lindane)	2.5	U	169	203		ug/Kg	☼	120	61 - 138	0	30
beta-BHC	2.5	U	169	187		ug/Kg	☼	110	59 - 136	2	30
beta-BHC	2.5	U	169	182		ug/Kg	☼	108	59 - 136	0	30
delta-BHC	2.5	U	169	197		ug/Kg	☼	116	60 - 139	1	30
delta-BHC	2.5	U	169	201		ug/Kg	☼	118	60 - 139	1	30
Heptachlor	8.5	U	169	220		ug/Kg	☼	130	61 - 135	1	30
Heptachlor	8.5	U *	169	204		ug/Kg	☼	121	61 - 135	1	30
Aldrin	8.5	U	169	193		ug/Kg	☼	114	61 - 133	0	30
Aldrin	8.5	U	169	198		ug/Kg	☼	117	61 - 133	1	30
gamma-Chlordane	8.5	U	169	196		ug/Kg	☼	116	60 - 131	1	30
gamma-Chlordane	8.5	U	169	194		ug/Kg	☼	114	60 - 131	0	30
alpha-Chlordane	8.5	U	169	189		ug/Kg	☼	112	57 - 136	1	30
alpha-Chlordane	8.5	U	169	184		ug/Kg	☼	109	57 - 136	0	30
4,4'-DDE	8.5	U	169	191		ug/Kg	☼	113	61 - 135	1	30
4,4'-DDE	8.5	U	169	188		ug/Kg	☼	111	61 - 135	0	30
Endosulfan I	8.5	U	169	191		ug/Kg	☼	113	60 - 135	0	30
Endosulfan I	8.5	U	169	190		ug/Kg	☼	112	60 - 135	0	30
Dieldrin	2.5	U	169	199		ug/Kg	☼	118	61 - 137	1	30
Dieldrin	2.5	U	169	197		ug/Kg	☼	116	61 - 137	0	30
Endrin	8.5	U	169	187		ug/Kg	☼	110	59 - 133	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 320005

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	8.5	U	169	184		ug/Kg	☼	109	59 - 133	1	30
4,4'-DDD	8.5	U	169	207		ug/Kg	☼	122	61 - 140	0	30
4,4'-DDD	8.5	U	169	203		ug/Kg	☼	120	61 - 140	1	30
Endosulfan II	8.5	U	169	193		ug/Kg	☼	114	61 - 130	1	30
Endosulfan II	8.5	U	169	191		ug/Kg	☼	113	61 - 130	1	30
4,4'-DDT	8.5	U *	169	248	F1	ug/Kg	☼	146	59 - 133	1	30
4,4'-DDT	8.5	U F1 *	169	222		ug/Kg	☼	131	59 - 133	1	30
Endosulfan sulfate	8.5	U	169	199		ug/Kg	☼	117	60 - 129	1	30
Endosulfan sulfate	8.5	U	169	186		ug/Kg	☼	110	60 - 129	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*55 - 139*
Tetrachloro-m-xylene	*116*		*55 - 139*
DCB Decachlorobiphenyl	*116*		*55 - 148*
DCB Decachlorobiphenyl	*112*		*55 - 148*

Lab Sample ID: MB 200-93084/1-A
Matrix: Water
Analysis Batch: 93421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.050	U	0.050	0.0016	ug/L		08/24/15 09:33	08/31/15 19:44	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0010	ug/L		08/24/15 09:33	08/31/15 19:44	1
beta-BHC	0.050	U	0.050	0.011	ug/L		08/24/15 09:33	08/31/15 19:44	1
delta-BHC	0.050	U	0.050	0.0015	ug/L		08/24/15 09:33	08/31/15 19:44	1
Heptachlor	0.050	U	0.050	0.0013	ug/L		08/24/15 09:33	08/31/15 19:44	1
Aldrin	0.050	U	0.050	0.00092	ug/L		08/24/15 09:33	08/31/15 19:44	1
gamma-Chlordane	0.050	U	0.050	0.0011	ug/L		08/24/15 09:33	08/31/15 19:44	1
alpha-Chlordane	0.050	U	0.050	0.0010	ug/L		08/24/15 09:33	08/31/15 19:44	1
4,4'-DDE	0.050	U	0.050	0.0016	ug/L		08/24/15 09:33	08/31/15 19:44	1
Endosulfan I	0.050	U	0.050	0.00086	ug/L		08/24/15 09:33	08/31/15 19:44	1
Dieldrin	0.050	U	0.050	0.0016	ug/L		08/24/15 09:33	08/31/15 19:44	1
Endrin	0.050	U	0.050	0.0022	ug/L		08/24/15 09:33	08/31/15 19:44	1
4,4'-DDD	0.050	U	0.050	0.0013	ug/L		08/24/15 09:33	08/31/15 19:44	1
Endosulfan II	0.050	U	0.050	0.0016	ug/L		08/24/15 09:33	08/31/15 19:44	1
4,4'-DDT	0.050	U	0.050	0.0026	ug/L		08/24/15 09:33	08/31/15 19:44	1
Endosulfan sulfate	0.050	U	0.050	0.0017	ug/L		08/24/15 09:33	08/31/15 19:44	1
Chlordane (technical)	0.50	U	0.50	0.0041	ug/L		08/24/15 09:33	08/31/15 19:44	1
Mirex	0.10	U	0.10	0.10	ug/L		08/24/15 09:33	08/31/15 19:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*50 - 120*	*08/24/15 09:33*	*08/31/15 19:44*	*1*
Tetrachloro-m-xylene	*92*		*50 - 120*	*08/24/15 09:33*	*08/31/15 19:44*	*1*
DCB Decachlorobiphenyl	*98*		*45 - 115*	*08/24/15 09:33*	*08/31/15 19:44*	*1*
DCB Decachlorobiphenyl	*98*		*45 - 115*	*08/24/15 09:33*	*08/31/15 19:44*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 200-93084/2-A
Matrix: Water
Analysis Batch: 93421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
alpha-BHC	0.200	0.195		ug/L		98	80 - 110
gamma-BHC (Lindane)	0.200	0.192		ug/L		96	85 - 115
beta-BHC	0.200	0.202		ug/L		101	70 - 135
delta-BHC	0.200	0.193		ug/L		97	85 - 115
Heptachlor	0.200	0.185		ug/L		92	70 - 110
Aldrin	0.200	0.189		ug/L		94	55 - 115
gamma-Chlordane	0.200	0.198		ug/L		99	80 - 115
alpha-Chlordane	0.200	0.203		ug/L		101	75 - 120
4,4'-DDE	0.200	0.196		ug/L		98	80 - 110
Endosulfan I	0.200	0.140		ug/L		70	60 - 125
Dieldrin	0.200	0.198		ug/L		99	50 - 140
Endrin	0.200	0.205		ug/L		103	40 - 150
4,4'-DDD	0.200	0.198		ug/L		99	80 - 115
Endosulfan II	0.200	0.159		ug/L		80	55 - 125
4,4'-DDT	0.200	0.190		ug/L		95	80 - 120
Endosulfan sulfate	0.200	0.191		ug/L		96	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*50 - 120*
Tetrachloro-m-xylene	*102*		*50 - 120*
DCB Decachlorobiphenyl	*103*		*45 - 115*
DCB Decachlorobiphenyl	*103*		*45 - 115*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 200-92892/1-A
Matrix: Water
Analysis Batch: 92950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.057	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1221	0.50	U	0.50	0.057	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1232	0.50	U	0.50	0.057	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1242	0.50	U	0.50	0.057	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1248	0.50	U	0.50	0.057	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1254	0.50	U	0.50	0.024	ug/L		08/19/15 10:50	08/20/15 13:15	1
PCB-1260	0.50	U	0.50	0.024	ug/L		08/19/15 10:50	08/20/15 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*55 - 120*	*08/19/15 10:50*	*08/20/15 13:15*	*1*
Tetrachloro-m-xylene	*59*		*55 - 120*	*08/19/15 10:50*	*08/20/15 13:15*	*1*
DCB Decachlorobiphenyl	*51*		*30 - 150*	*08/19/15 10:50*	*08/20/15 13:15*	*1*
DCB Decachlorobiphenyl	*56*		*30 - 150*	*08/19/15 10:50*	*08/20/15 13:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 200-92892/2-A
Matrix: Water
Analysis Batch: 92950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	3.38		ug/L		68	55 - 120
PCB-1260	5.00	3.41		ug/L		68	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*55 - 120*
Tetrachloro-m-xylene	*60*		*55 - 120*
DCB Decachlorobiphenyl	*59*		*30 - 150*
DCB Decachlorobiphenyl	*58*		*30 - 150*

Lab Sample ID: MB 200-93143/1-B
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1221	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1232	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1242	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1248	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1254	17	U	17	2.5	ug/Kg		08/25/15 11:13	09/21/15 17:19	1
PCB-1260	17	U	17	2.5	ug/Kg		08/25/15 11:13	09/21/15 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 130*	*08/25/15 11:13*	*09/21/15 17:19*	*1*
Tetrachloro-m-xylene	*86*		*30 - 130*	*08/25/15 11:13*	*09/21/15 17:19*	*1*
DCB Decachlorobiphenyl	*62*		*45 - 125*	*08/25/15 11:13*	*09/21/15 17:19*	*1*
DCB Decachlorobiphenyl	*64*		*45 - 125*	*08/25/15 11:13*	*09/21/15 17:19*	*1*

Lab Sample ID: MB 200-93143/1-B
Matrix: Solid
Analysis Batch: 94291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1221	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1232	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1242	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1248	17	U	17	1.4	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1254	17	U	17	2.5	ug/Kg		08/25/15 11:13	09/22/15 13:27	1
PCB-1260	17	U	17	2.5	ug/Kg		08/25/15 11:13	09/22/15 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*30 - 130*	*08/25/15 11:13*	*09/22/15 13:27*	*1*
Tetrachloro-m-xylene	*77*		*30 - 130*	*08/25/15 11:13*	*09/22/15 13:27*	*1*
DCB Decachlorobiphenyl	*82*		*45 - 125*	*08/25/15 11:13*	*09/22/15 13:27*	*1*
DCB Decachlorobiphenyl	*76*		*45 - 125*	*08/25/15 11:13*	*09/22/15 13:27*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 200-93143/2-B
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	119		ug/Kg		71	55 - 120		
PCB-1260			167	109		ug/Kg		65	55 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 130*
Tetrachloro-m-xylene	*80*		*30 - 130*
DCB Decachlorobiphenyl	*61*		*45 - 125*
DCB Decachlorobiphenyl	*67*		*45 - 125*

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 93143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	150	U F1	291	588	F1	ug/Kg	☼	202	55 - 120		
PCB-1260	150	U F1	291	439	F1	ug/Kg	☼	151	55 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*30 - 130*
Tetrachloro-m-xylene	*62*		*30 - 130*
DCB Decachlorobiphenyl	*81*		*45 - 125*
DCB Decachlorobiphenyl	*90*		*45 - 125*

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 93143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	150	U F1	304	510	F1	ug/Kg	☼	168	55 - 120	14	30
PCB-1260	150	U F1	304	407	F1	ug/Kg	☼	134	55 - 125	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 130*
Tetrachloro-m-xylene	*56*		*30 - 130*
DCB Decachlorobiphenyl	*59*		*45 - 125*
DCB Decachlorobiphenyl	*65*		*45 - 125*

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	23	U *	212	134		ug/Kg	☼	63	55 - 120		
PCB-1260	23	U *	212	123		ug/Kg	☼	58	55 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*30 - 130*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*30 - 130*
DCB Decachlorobiphenyl	*47*		*45 - 125*
DCB Decachlorobiphenyl	*50*		*45 - 125*

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 94212

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 93143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	23	U *	215	146		ug/Kg	☼	68	55 - 120	9	30
PCB-1260	23	U *	215	133		ug/Kg	☼	62	55 - 125	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 130*
Tetrachloro-m-xylene	*62*		*30 - 130*
DCB Decachlorobiphenyl	*47*		*45 - 125*
DCB Decachlorobiphenyl	*51*		*45 - 125*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 460-317809/1-A
Matrix: Water
Analysis Batch: 317990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	0.60	U	0.60	0.11	ug/L		08/20/15 11:47	08/21/15 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*122*		*44 - 150*	*08/20/15 11:47*	*08/21/15 08:08*	*1*
2,4-Dichlorophenylacetic acid	*123*		*44 - 150*	*08/20/15 11:47*	*08/21/15 08:08*	*1*

Lab Sample ID: LCS 460-317809/2-A
Matrix: Water
Analysis Batch: 317990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)	10.0	10.6		ug/L		106	79 - 150
Silvex (2,4,5-TP)	10.0	12.5		ug/L		125	79 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*142*		*44 - 150*
2,4-Dichlorophenylacetic acid	*148*		*44 - 150*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 460-317809/3-A
Matrix: Water
Analysis Batch: 317990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317809

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)			10.0	9.81		ug/L		98	79 - 150	8	30
Silvex (2,4,5-TP)			10.0	12.1		ug/L		121	79 - 150	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*130*		*44 - 150*
2,4-Dichlorophenylacetic acid	*137*		*44 - 150*

Lab Sample ID: MB 460-318962/1-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	11	ug/Kg		08/26/15 11:22	08/27/15 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*83 - 150*	*08/26/15 11:22*	*08/27/15 08:00*	*1*
2,4-Dichlorophenylacetic acid	*86*		*83 - 150*	*08/26/15 11:22*	*08/27/15 08:00*	*1*

Lab Sample ID: LCS 460-318962/2-A
Matrix: Solid
Analysis Batch: 319166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318962

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)			167	182		ug/Kg		109	73 - 150
Silvex (2,4,5-TP)			167	186		ug/Kg		112	73 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*83 - 150*
2,4-Dichlorophenylacetic acid	*85*		*83 - 150*

Lab Sample ID: MB 460-319235/1-A
Matrix: Solid
Analysis Batch: 320158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	11	ug/Kg		08/27/15 11:12	09/01/15 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*167*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 07:58*	*1*
2,4-Dichlorophenylacetic acid	*178*	*X*	*83 - 150*	*08/27/15 11:12*	*09/01/15 07:58*	*1*

Lab Sample ID: LCS 460-319235/2-A
Matrix: Solid
Analysis Batch: 320158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)			167	167		ug/Kg		100	73 - 150

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 460-319235/2-A
Matrix: Solid
Analysis Batch: 320158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			167	183		ug/Kg		110	73 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*156*	*X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*165*	*X*	*83 - 150*

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 320200

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)	29	U F1 F2	289	470	F1	ug/Kg	☼	162	73 - 150		
Silvex (2,4,5-TP)	29	U F1	289	536	F1	ug/Kg	☼	185	73 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*407*	*X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*433*	*X*	*83 - 150*

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 320200

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319235

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	29	U F1 F2	289	322	F2	ug/Kg	☼	111	73 - 150	37	30
Silvex (2,4,5-TP)	29	U F1	289	454	F1	ug/Kg	☼	157	73 - 150	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*411*	*X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*475*	*X*	*83 - 150*

Lab Sample ID: MB 460-319515/1-A
Matrix: Solid
Analysis Batch: 320116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	17	U	17	11	ug/Kg		08/28/15 13:56	09/01/15 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*170*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 13:22*	*1*
2,4-Dichlorophenylacetic acid	*178*	*X*	*83 - 150*	*08/28/15 13:56*	*09/01/15 13:22*	*1*

Lab Sample ID: LCS 460-319515/2-A
Matrix: Solid
Analysis Batch: 320116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319515

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			167	172		ug/Kg		103	73 - 150		

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 460-319515/2-A
Matrix: Solid
Analysis Batch: 320116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319515

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)			167	184		ug/Kg		111	73 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*167*	*X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*178*	*X*	*83 - 150*

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 320196

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silvex (2,4,5-TP)	22	U	211	301		ug/Kg	☼	142	73 - 150		
Silvex (2,4,5-TP)	22	U	211	249		ug/Kg	☼	118	73 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*386*	*X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*438*	*X*	*83 - 150*

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 320196

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	22	U	211	247		ug/Kg	☼	117	73 - 150	1	30
Silvex (2,4,5-TP)	22	U	211	263		ug/Kg	☼	124	73 - 150	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*339*	*p X*	*83 - 150*
2,4-Dichlorophenylacetic acid	*513*	*X*	*83 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-318031/1-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10.0	U	10.0	1.9	ug/L		08/21/15 09:50	08/25/15 17:09	1
Arsenic	15.0	U	15.0	4.4	ug/L		08/21/15 09:50	08/25/15 17:09	1
Barium	200	U	200	5.5	ug/L		08/21/15 09:50	08/25/15 17:09	1
Beryllium	2.0	U	2.0	1.8	ug/L		08/21/15 09:50	08/25/15 17:09	1
Cadmium	4.0	U	4.0	2.3	ug/L		08/21/15 09:50	08/25/15 17:09	1
Chromium	10.0	U	10.0	4.5	ug/L		08/21/15 09:50	08/25/15 17:09	1
Copper	25.0	U	25.0	5.0	ug/L		08/21/15 09:50	08/25/15 17:09	1
Manganese	15.0	U	15.0	4.9	ug/L		08/21/15 09:50	08/25/15 17:09	1
Nickel	40.0	U	40.0	5.4	ug/L		08/21/15 09:50	08/25/15 17:09	1
Lead	10.0	U	10.0	4.2	ug/L		08/21/15 09:50	08/25/15 17:09	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 460-318031/1-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	20.0	U	20.0	6.8	ug/L		08/21/15 09:50	08/25/15 17:09	1
Zinc	30.0	U	30.0	5.9	ug/L		08/21/15 09:50	08/25/15 17:09	1

Lab Sample ID: LCS 460-318031/2-A
Matrix: Water
Analysis Batch: 318797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	46.63		ug/L		93	80 - 120
Arsenic	2000	1974		ug/L		99	80 - 120
Barium	2000	2060		ug/L		103	80 - 120
Beryllium	50.0	49.51		ug/L		99	80 - 120
Cadmium	50.0	51.39		ug/L		103	80 - 120
Chromium	200	204.5		ug/L		102	80 - 120
Copper	250	223.9		ug/L		90	80 - 120
Manganese	500	495.0		ug/L		99	80 - 120
Nickel	500	526.5		ug/L		105	80 - 120
Lead	500	516.3		ug/L		103	80 - 120
Selenium	2000	1960		ug/L		98	80 - 120
Zinc	500	525.4		ug/L		105	80 - 120

Lab Sample ID: MB 460-319872/1-A ^2
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.0	U	1.0	0.18	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Barium	20.0	U	20.0	0.72	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Chromium	1.0	U	1.0	0.48	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Copper	2.5	U	2.5	0.65	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Manganese	1.5	U	1.5	0.53	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Nickel	4.0	U	4.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Lead	1.0	U	1.0	0.39	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Selenium	2.0	U	2.0	0.69	mg/Kg		08/31/15 07:54	09/02/15 22:02	2
Zinc	3.0	U	3.0	0.73	mg/Kg		08/31/15 07:54	09/02/15 22:02	2

Lab Sample ID: LCSSRM 460-319872/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.9	38.37		mg/Kg		93.8	75.1 - 124.7
Arsenic	98.5	88.25		mg/Kg		89.6	77.8 - 122.8
Barium	308	290.3		mg/Kg		94.3	82.5 - 117.5

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-319872/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319872

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	66.0	58.97		mg/Kg		89.3	83.0 - 116.8
Cadmium	146	134.7		mg/Kg		92.3	82.9 - 117.8
Chromium	182	186.3		mg/Kg		102.3	79.7 - 120.3
Copper	106	108.0		mg/Kg		101.9	81.5 - 118.9
Manganese	410	375.9		mg/Kg		91.7	81.2 - 119.0
Nickel	149	147.6		mg/Kg		99.0	82.6 - 117.4
Lead	130	120.1		mg/Kg		92.4	82.3 - 117.7
Selenium	154	132.4		mg/Kg		86.0	77.9 - 122.1
Zinc	191	176.8		mg/Kg		92.6	83.2 - 116.8

Lab Sample ID: MB 460-319882/1-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.50	U	0.50	0.088	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Arsenic	0.75	U	0.75	0.25	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Barium	10.0	U	10.0	0.36	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Beryllium	0.10	U	0.10	0.085	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Cadmium	0.20	U	0.20	0.10	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Chromium	0.50	U	0.50	0.24	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Copper	1.3	U	1.3	0.33	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Manganese	0.75	U	0.75	0.26	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Nickel	2.0	U	2.0	0.37	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Lead	0.50	U	0.50	0.20	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Selenium	1.0	U	1.0	0.35	mg/Kg		08/31/15 08:00	09/02/15 20:14	1
Zinc	1.5	U	1.5	0.37	mg/Kg		08/31/15 08:00	09/02/15 20:14	1

Lab Sample ID: LCSSRM 460-319882/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.9	38.78		mg/Kg		94.8	75.1 - 124.7
Arsenic	98.5	90.92		mg/Kg		92.3	77.8 - 122.8
Barium	308	292.5		mg/Kg		95.0	82.5 - 117.5
Beryllium	66.0	58.75		mg/Kg		89.0	83.0 - 116.8
Cadmium	146	138.3		mg/Kg		94.7	82.9 - 117.8

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-319882/2-A
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	182	183.9		mg/Kg		101.0	79.7 - 120.3
Copper	106	107.0		mg/Kg		100.9	81.5 - 118.9
Manganese	410	380.6		mg/Kg		92.8	81.2 - 119.0
Nickel	149	147.7		mg/Kg		99.1	82.6 - 117.4
Lead	130	120.6		mg/Kg		92.8	82.3 - 117.7
Selenium	154	138.8		mg/Kg		90.1	77.9 - 122.1
Zinc	191	175.7		mg/Kg		92.0	83.2 - 116.8

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	247		8.36	243.3	4	mg/Kg	☼	-45	75 - 125
Arsenic	41.5		334	338.6		mg/Kg	☼	89	75 - 125
Barium	69.8		334	380.4		mg/Kg	☼	93	75 - 125
Beryllium	0.60	J	8.36	8.10		mg/Kg	☼	90	75 - 125
Cadmium	42.8		8.36	47.83	4	mg/Kg	☼	60	75 - 125
Chromium	54.9		33.4	84.20		mg/Kg	☼	88	75 - 125
Copper	401		41.8	402.1	4	mg/Kg	☼	2	75 - 125
Manganese	390		83.6	536.5	4	mg/Kg	☼	175	75 - 125
Nickel	30.0		83.6	107.8		mg/Kg	☼	93	75 - 125
Lead	351		83.6	391.1	4	mg/Kg	☼	48	75 - 125
Selenium	5.6	J	334	290.7		mg/Kg	☼	85	75 - 125
Zinc	280	F1	83.6	343.3		mg/Kg	☼	76	75 - 125

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	247		8.44	242.1	4	mg/Kg	☼	-59	75 - 125	0	20
Arsenic	41.5		337	346.9		mg/Kg	☼	91	75 - 125	2	20
Barium	69.8		337	396.6		mg/Kg	☼	97	75 - 125	4	20
Beryllium	0.60	J	8.44	8.35		mg/Kg	☼	92	75 - 125	3	20
Cadmium	42.8		8.44	49.00	4	mg/Kg	☼	73	75 - 125	2	20
Chromium	54.9		33.7	87.95		mg/Kg	☼	98	75 - 125	4	20
Copper	401		42.2	405.7	4	mg/Kg	☼	10	75 - 125	1	20
Manganese	390		84.4	543.4	4	mg/Kg	☼	182	75 - 125	1	20
Nickel	30.0		84.4	110.9		mg/Kg	☼	96	75 - 125	3	20
Lead	351		84.4	393.5	4	mg/Kg	☼	51	75 - 125	1	20
Selenium	5.6	J	337	300.2		mg/Kg	☼	87	75 - 125	3	20
Zinc	280	F1	84.4	334.5	F1	mg/Kg	☼	64	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	1.9	J	5.88	7.58		mg/Kg	☼	96	75 - 125
Arsenic	4.1		235	217.6		mg/Kg	☼	91	75 - 125
Barium	84.1		235	303.2		mg/Kg	☼	93	75 - 125
Beryllium	0.48	U	5.88	5.69		mg/Kg	☼	97	75 - 125
Cadmium	0.96	U	5.88	5.71		mg/Kg	☼	97	75 - 125
Chromium	30.3		23.5	49.47		mg/Kg	☼	82	75 - 125
Copper	33.0		29.4	57.26		mg/Kg	☼	82	75 - 125
Manganese	111	F1	58.8	139.0	F1	mg/Kg	☼	48	75 - 125
Nickel	13.1		58.8	68.48		mg/Kg	☼	94	75 - 125
Lead	19.5		58.8	70.58		mg/Kg	☼	87	75 - 125
Selenium	4.8	U	235	203.3		mg/Kg	☼	86	75 - 125
Zinc	40.2		58.8	88.93		mg/Kg	☼	83	75 - 125

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	1.9	J	6.29	8.18		mg/Kg	☼	99	75 - 125	8	20
Arsenic	4.1		252	236.3		mg/Kg	☼	92	75 - 125	8	20
Barium	84.1		252	331.6		mg/Kg	☼	98	75 - 125	9	20
Beryllium	0.48	U	6.29	6.12		mg/Kg	☼	97	75 - 125	7	20
Cadmium	0.96	U	6.29	6.23		mg/Kg	☼	99	75 - 125	9	20
Chromium	30.3		25.2	50.97		mg/Kg	☼	82	75 - 125	3	20
Copper	33.0		31.4	63.02		mg/Kg	☼	95	75 - 125	10	20
Manganese	111	F1	62.9	139.2	F1	mg/Kg	☼	45	75 - 125	0	20
Nickel	13.1		62.9	73.88		mg/Kg	☼	97	75 - 125	8	20
Lead	19.5		62.9	77.81		mg/Kg	☼	93	75 - 125	10	20
Selenium	4.8	U	252	224.9		mg/Kg	☼	89	75 - 125	10	20
Zinc	40.2		62.9	98.94		mg/Kg	☼	93	75 - 125	11	20

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 320446

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319882

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	247		250.2		mg/Kg	☼	1	20
Arsenic	41.5		41.55		mg/Kg	☼	0.2	20
Barium	69.8		71.53		mg/Kg	☼	2	20
Beryllium	0.60	J	0.606	J	mg/Kg	☼	2	20
Cadmium	42.8		43.95		mg/Kg	☼	3	20
Chromium	54.9		55.39		mg/Kg	☼	0.8	20
Copper	401		407.4		mg/Kg	☼	1	20
Manganese	390		394.4		mg/Kg	☼	1	20
Nickel	30.0		30.73		mg/Kg	☼	3	20
Lead	351		358.0		mg/Kg	☼	2	20
Selenium	5.6	J	6.51	J	mg/Kg	☼	14	20
Zinc	280	F1	285.1		mg/Kg	☼	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-317717/11-A
Matrix: Water
Analysis Batch: 317832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.14	ug/L		08/20/15 05:22	08/20/15 11:05	1

Lab Sample ID: LCS 460-317717/12-A
Matrix: Water
Analysis Batch: 317832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.947		ug/L		95	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-321598/10-A
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/10/15 05:11	09/10/15 10:22	1

Lab Sample ID: LCSSRM 460-321598/11-A ^20
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.75		mg/Kg		95.1	73.7 - 126.3

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.32	F1	0.136	0.413	F1	mg/Kg	☼	66	80 - 120

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.32	F1	0.136	0.435		mg/Kg	☼	82	80 - 120	5	20

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 321598

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.32	F1	0.320		mg/Kg	☼	0.8	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-321603/10-A
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/10/15 05:55	09/10/15 11:34	1

Lab Sample ID: LCSSRM 460-321603/11-A ^20
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321603

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.47		mg/Kg		91.1	73.7 - 126.3

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 321603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.21	F1	0.101	0.266	F1	mg/Kg	☼	60	80 - 120

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 321603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.21	F1	0.101	0.226	F1	mg/Kg	☼	20	80 - 120	16	20

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 321698

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 321603

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.21	F1	0.198		mg/Kg	☼	4	20

Lab Sample ID: MB 460-322098/1-A
Matrix: Solid
Analysis Batch: 322150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/12/15 12:43	09/12/15 17:43	1

Lab Sample ID: LCSSRM 460-322098/2-A ^20
Matrix: Solid
Analysis Batch: 322150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322098

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.58		mg/Kg		92.7	73.7 - 126.3

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-322099/1-A
Matrix: Solid
Analysis Batch: 322150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.012	mg/Kg		09/12/15 12:44	09/12/15 19:41	1

Lab Sample ID: LCSSRM 460-322099/2-A ^20
Matrix: Solid
Analysis Batch: 322150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322099

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.10	6.48		mg/Kg		91.3	73.7 - 126.3

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-317209/9
Matrix: Water
Analysis Batch: 317209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	10.0	U	10.0	4.9	ug/L			08/17/15 21:20	1

Lab Sample ID: LCSSRM 460-317209/10
Matrix: Water
Analysis Batch: 317209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	73.8	71.35		ug/L		96.7	87.3 - 110.2

Lab Sample ID: LCSSRM 460-317209/11
Matrix: Water
Analysis Batch: 317209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	73.8	69.06		ug/L		93.6	87.3 - 110.2

Lab Sample ID: MB 460-322449/1-A
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/15/15 08:30	09/15/15 13:15	1

Lab Sample ID: LCSI 460-322449/3-A
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322449

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	659.7		mg/Kg		93	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-322449/2-A
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322449

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	15.42		mg/Kg		104.5	88.6 - 110.0

Lab Sample ID: 200-29316-8 MSI
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	3.5	U F1	1230	3.5	U F1	mg/Kg	☼	0.03	75 - 125

Lab Sample ID: 200-29316-8 MSS
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	3.5	U F1	69.5	3.5	U F1	mg/Kg	☼	0.8	75 - 125

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 322572

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322449

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)	3.5	U F1	3.7	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-322593/1-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/15/15 19:00	09/15/15 23:42	1

Lab Sample ID: LCSI 460-322593/3-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	751.2		mg/Kg		106	80 - 120

Lab Sample ID: LCSSRM 460-322593/2-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	13.69		mg/Kg		92.7	88.6 - 110.0

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-322593/4-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	97.4	58.22		mg/Kg		59.8	48.8 - 150.9

Lab Sample ID: 200-29316-8 MSI
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	3.4	U F1	1200	14.50	F1	mg/Kg	☼	1	75 - 125

Lab Sample ID: 200-29316-8 MSS
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	3.4	U F1	71.8	3.6	U F1	mg/Kg	☼	2	75 - 125

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 322593

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)	3.4	U F1	3.8	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-322851/1-A
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/16/15 18:00	09/16/15 22:45	1

Lab Sample ID: LCSI 460-322851/3-A
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	758.9		mg/Kg		107	80 - 120

Lab Sample ID: LCSSRM 460-322851/2-A
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	14.63		mg/Kg		99.1	88.6 - 110.0

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-322851/4-A
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	97.4	61.70		mg/Kg		63.3	48.8 - 150.9

Lab Sample ID: 200-29316-17 MSI
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	2.5	U F1	865	625.1	F1	mg/Kg	☼	72	75 - 125

Lab Sample ID: 200-29316-17 MSS
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	2.5	U F1	52.5	5.77	F1	mg/Kg	☼	11	75 - 125

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 322887

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 322851

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)	2.5	U F1	2.5	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-322853/1-A
Matrix: Solid
Analysis Batch: 322895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.0	U	2.0	0.81	mg/Kg		09/16/15 18:00	09/16/15 23:51	1

Lab Sample ID: LCSI 460-322853/3-A
Matrix: Solid
Analysis Batch: 322895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322853

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	708	758.9		mg/Kg		107	80 - 120

Lab Sample ID: LCSSRM 460-322853/2-A
Matrix: Solid
Analysis Batch: 322895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322853

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	14.8	14.63		mg/Kg		99.1	88.6 - 110.0

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSSRM 460-322853/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322895 — **Prep Batch: 322853**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	97.4	61.70		mg/Kg		63.3	48.8 - 150.9

Lab Sample ID: 200-29316-17 MSI — **Client Sample ID: RXR1A/+1.5--10.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322895 — **Prep Batch: 322853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	2.6	U F1	882	572.7	F1	mg/Kg	☼	65	75 - 125

Lab Sample ID: 200-29316-17 MSS — **Client Sample ID: RXR1A/+1.5--10.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322895 — **Prep Batch: 322853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium (hexavalent)	2.6	U F1	49.4	2.5	U F1	mg/Kg	☼	1	75 - 125

Lab Sample ID: 200-29316-17 DU — **Client Sample ID: RXR1A/+1.5--10.9/17082015**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 322895 — **Prep Batch: 322853**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium (hexavalent)			2.6	U	mg/Kg	☼		20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-319283/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319283**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10	U	0.10	0.016	mg/Kg		08/27/15 13:30	08/27/15 19:10	1

Lab Sample ID: HLCS 460-319283/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319283**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.00	1.87		mg/Kg		94	90 - 110

Lab Sample ID: LCSSRM 460-319283/4-A ^20 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 319478 — **Prep Batch: 319283**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	103	24.20		mg/Kg		23.5	3.5 - 121.4

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LLCS 460-319283/2-A
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	1.00	1.03		mg/Kg		103	90 - 110

Lab Sample ID: 200-29316-8 MS
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.33	F1	3.48	1.03	F1	mg/Kg	☼	20	47 - 118

Lab Sample ID: 200-29316-8 MSD
Matrix: Solid
Analysis Batch: 319478

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 319283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.33	F1	3.48	1.28	F1	mg/Kg	☼	27	47 - 118	21	35

Lab Sample ID: MB 460-319285/1-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0040	mg/L		08/27/15 13:30	08/27/15 19:43	1

Lab Sample ID: HLCS 460-319285/3-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319285

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.186		mg/L		93	90 - 110

Lab Sample ID: LLCS 460-319285/2-A
Matrix: Water
Analysis Batch: 319478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319285

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.102		mg/L		102	90 - 110

Lab Sample ID: MB 460-319286/1-A
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10	U	0.10	0.016	mg/Kg		08/27/15 15:00	08/27/15 17:49	1

Lab Sample ID: HLCS 460-319286/3-A
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319286

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.00	1.89		mg/Kg		95	90 - 110

Lab Sample ID: LCSSRM 460-319286/4-A ^20
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319286

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			103	21.80		mg/Kg		21.2	3.5 - 121.4		

Lab Sample ID: LLCS 460-319286/2-A
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319286

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			1.00	0.990		mg/Kg		99	90 - 110		

Lab Sample ID: 200-29316-17 MS
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.022	J	2.54	1.88		mg/Kg	☼	73	47 - 118		

Lab Sample ID: 200-29316-17 MSD
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 319286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.022	J	2.54	1.80		mg/Kg	☼	70	47 - 118	4	35

Lab Sample ID: 200-29316-20 MS
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: DUP001
Prep Type: Total/NA
Prep Batch: 319286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.023	J	2.77	2.08		mg/Kg	☼	74	47 - 118		

Lab Sample ID: 200-29316-20 MSD
Matrix: Solid
Analysis Batch: 319305

Client Sample ID: DUP001
Prep Type: Total/NA
Prep Batch: 319286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.023	J	2.77	1.86		mg/Kg	☼	66	47 - 118	11	35

Method: Moisture - Percent Moisture

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 93164

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	57.5			54.0		%				6	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 93164

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	78.7		78.9		%		0.3	20

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-206694/1-A
Matrix: Water
Analysis Batch: 210237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 206694

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	60.13	U	126	127	203	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Bismuth-214	1.039	U	15.1	15.1	30.3	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Actinium-228	13.76	U	24.9	25.0	42.6	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Bismuth-212	0.0000	U	42.4	42.4	194	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Lead-212	-7.962	U	39.9	39.9	23.5	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Lead-214	7.211	U	13.4	13.4	25.4	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Radium-226	1.039	U	15.1	15.1	30.3	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Potassium-40	3.185	U	90.7	90.7	199	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Radium-228	13.76	U	24.9	25.0	42.6	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Protactinium-231	56.78	U	140	140	241	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Thallium-208	-0.6454	U	3.01	3.01	14.4	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Thorium-234	72.09	U	151	152	219	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Uranium-238	72.09	U	151	152	219	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Protactinium-234m	467.1	U	765	766	1140	pCi/L	08/20/15 10:34	09/10/15 06:48	1
Uranium-235	15.08	U	32.6	32.6	45.5	pCi/L	08/20/15 10:34	09/10/15 06:48	1

Lab Sample ID: LCS 160-206694/2-A
Matrix: Water
Analysis Batch: 210237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 206694

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	137000	137900		15900	474	pCi/L	101	90 - 111
Cesium-137	48600	48870		4860	168	pCi/L	101	90 - 111
Cobalt-60	48000	47160		4660	124	pCi/L	98	89 - 110

Lab Sample ID: 200-29316-1 DU
Matrix: Water
Analysis Batch: 210536

Client Sample ID: FB001_17082015
Prep Type: Total/NA
Prep Batch: 206694

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Lead-210	52.0	U	69.25	U	139	218	pCi/L	0.06	1
Bismuth-214	-0.740	U	26.56		16.5	23.6	pCi/L	0.89	1
Actinium-228	-0.134	U	-5.441	U	22.3	39.8	pCi/L	0.12	1
Bismuth-212	4.09	U	27.44	U	78.7	138	pCi/L	0.16	1
Lead-212	3.02	U	23.84		14.8	19.0	pCi/L	0.88	1
Lead-214	-7.99	U	2.463	U	2.72	23.6	pCi/L	0.13	1

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 200-29316-1 DU
Matrix: Water
Analysis Batch: 210536

Client Sample ID: FB001_17082015
Prep Type: Total/NA
Prep Batch: 206694

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Radium-226	-0.740	U	26.56		16.5	23.6	pCi/L	0.89	1
Potassium-40	-7.66	U	-78.57	U	275	206	pCi/L	0.20	1
Radium-228	-0.134	U	-5.441	U	22.3	39.8	pCi/L	0.12	1
Protactinium-231	42.5	U	72.51	U	98.6	198	pCi/L	0.16	1
Thallium-208	-4.47	U	4.601	U	7.46	12.5	pCi/L	0.05	1
Thorium-234	38.6	U	20.04	U	48.8	227	pCi/L	0.20	1
Uranium-238	38.6	U	20.04	U	48.8	227	pCi/L	0.20	1
Protactinium-234m	368	U	-706.9	U	7620	1840	pCi/L	0.13	1
Uranium-235	20.2	U	20.42	U	33.5	60.8	pCi/L	0	1

Lab Sample ID: MB 160-208181/1-A
Matrix: Solid
Analysis Batch: 211550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208181

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	0.1272	U	0.654	0.654	1.36	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-214	0.05644	U	0.0677	0.0679	0.109	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Actinium-228	0.01913	U	0.0748	0.0749	0.178	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Bismuth-212	0.1306	U	0.483	0.483	0.884	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-212	0.07494		0.0368	0.0381	0.0534	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Lead-214	0.02084	U	0.0380	0.0381	0.0666	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-226	0.05644	U	0.0677	0.0679	0.109	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Potassium-40	-0.01528	U	0.516	0.516	1.01	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Radium-228	0.01913	U	0.0748	0.0749	0.178	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-231	0.001592	U	0.476	0.476	0.948	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thallium-208	0.004946	U	0.0346	0.0346	0.0635	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Thorium-234	-0.03603	U	0.484	0.484	0.973	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-238	-0.03603	U	0.484	0.484	0.973	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Protactinium-234m	1.155	U	3.83	3.83	7.30	pCi/g	08/27/15 10:28	09/17/15 07:40	1
Uranium-235	0.007665	U	0.0908	0.0908	0.195	pCi/g	08/27/15 10:28	09/17/15 07:40	1

Lab Sample ID: LCS 160-208181/2-A
Matrix: Solid
Analysis Batch: 211549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208181

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	97.2	100.5		10.6	1.38	pCi/g	103	87 - 116
Cesium-137	30.2	31.07		3.34	0.294	pCi/g	103	87 - 120
Cobalt-60	18.9	18.71		1.96	0.172	pCi/g	99	87 - 115

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 211550

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 208181

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium-228	0.514		0.8065		0.206	0.114	pCi/g	0.66	1
Bismuth-212	0.652	U	0.6256	U	0.613	0.955	pCi/g	0.02	1
Bismuth-214	0.141	U	0.4430		0.131	0.0789	pCi/g	1.05	1
Lead-210	2.10	U	0.8875	U	1.32	1.92	pCi/g	0.40	1
Lead-212	0.626		0.5945		0.131	0.0937	pCi/g	0.10	1
Lead-214	0.582		0.6302		0.149	0.0995	pCi/g	0.16	1
Potassium-40	8.02		6.948		1.53	0.694	pCi/g	0.31	1
Protactinium-231	0.239	U	0.2734	U	0.406	1.80	pCi/g	0.02	1
Radium-226	0.141	U	0.4430		0.131	0.0789	pCi/g	1.05	1
Radium-228	0.514		0.8065		0.206	0.114	pCi/g	0.66	1
Thallium-208	0.310		0.2812		0.0918	0.0703	pCi/g	0.15	1
Thorium-234	0.822	U	0.3461	U	0.355	1.71	pCi/g	0.54	1
Uranium-235	0.0771	U	0.1615	U	0.208	0.281	pCi/g	0.18	1
Uranium-238	0.822	U	0.3461	U	0.355	1.71	pCi/g	0.54	1
Protactinium-234m	1.46	U	3.172	U	5.74	9.90	pCi/g	0.13	1

Lab Sample ID: MB 160-208182/1-A
Matrix: Solid
Analysis Batch: 211552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208182

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	0.9883	U	1.37	1.37	2.25	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Bismuth-214	0.005583	U	0.0853	0.0853	0.182	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Actinium-228	0.05498	U	0.112	0.112	0.245	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Bismuth-212	0.05657	U	0.491	0.491	0.932	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Lead-212	0.05904	U	0.0567	0.0572	0.0933	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Lead-214	-0.05380	U	3.10	3.10	0.154	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Radium-226	0.005583	U	0.0853	0.0853	0.182	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Potassium-40	-0.3073	U	12.3	12.3	0.827	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Radium-228	0.05498	U	0.112	0.112	0.245	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Protactinium-231	0.01555	U	0.867	0.867	1.62	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Thallium-208	-0.004612	U	0.0101	0.0101	0.0913	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Thorium-234	-0.4722	U	1.39	1.39	1.60	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Uranium-238	-0.4722	U	1.39	1.39	1.60	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Protactinium-234m	1.018	U	3.26	3.26	6.95	pCi/g	08/27/15 10:35	09/17/15 07:03	1
Uranium-235	-0.1142	U	1.17	1.17	0.335	pCi/g	08/27/15 10:35	09/17/15 07:03	1

Lab Sample ID: LCS 160-208182/2-A
Matrix: Solid
Analysis Batch: 211551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208182

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Americium-241	97.2	103.5		10.9	1.27	pCi/g	106	87 - 116
Cesium-137	30.2	30.74		3.29	0.275	pCi/g	102	87 - 120
Cobalt-60	18.9	18.80		1.95	0.111	pCi/g	100	87 - 115

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 211552

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 208182

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Actinium-228	0.434		0.6678		0.183	0.142	pCi/g	0.71	1
Bismuth-212	0.598	U	0.3387	U	0.532	0.894	pCi/g	0.27	1
Bismuth-214	0.472		0.4996		0.149	0.143	pCi/g	0.10	1
Lead-210	-0.106	U	2.123		1.45	1.97	pCi/g	0.99	1
Lead-212	0.521		0.6106		0.142	0.115	pCi/g	0.33	1
Lead-214	0.570		0.5897		0.136	0.108	pCi/g	0.07	1
Potassium-40	5.39		5.460		1.22	0.812	pCi/g	0.03	1
Protactinium-231	0.524	U	0.3085	U	0.367	1.78	pCi/g	0.20	1
Radium-226	0.472		0.4996		0.149	0.143	pCi/g	0.10	1
Radium-228	0.434		0.6678		0.183	0.142	pCi/g	0.71	1
Thallium-208	0.197		0.2080		0.0574	0.0480	pCi/g	0.09	1
Thorium-234	0.482	U	1.062	U	0.963	1.67	pCi/g	0.42	1
Uranium-235	0.0974	U	0.1693	U	0.188	0.331	pCi/g	0.19	1
Uranium-238	0.482	U	1.062	U	0.963	1.67	pCi/g	0.42	1
Protactinium-234 m	0.344	U	0.07170	U	5.28	9.93	pCi/g	0.03	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-208637/1-A
Matrix: Water
Analysis Batch: 210115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208637

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.1025	U	0.0998	0.100	0.115	pCi/L	08/31/15 10:06	09/09/15 14:25	1
Thorium-230	0.1705		0.126	0.127	0.115	pCi/L	08/31/15 10:06	09/09/15 14:25	1
Thorium-232	0.0000	U	0.00827	0.00827	0.0662	pCi/L	08/31/15 10:06	09/09/15 14:25	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*91.6*		*30 - 110*	*08/31/15 10:06*	*09/09/15 14:25*	*1*

Lab Sample ID: LCS 160-208637/2-A
Matrix: Water
Analysis Batch: 210118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208637

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium-230	8.03	7.365		0.990	0.0609	pCi/L	92	81 - 125

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*91.0*		*30 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: 200-29316-1 DU
Matrix: Water
Analysis Batch: 210442

Client Sample ID: FB001_17082015
Prep Type: Total/NA
Prep Batch: 208637

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-228	-0.00717	U		0.01476	U	0.102		0.228	pCi/L			0.14	1
Thorium-230	0.139			0.05427	U	0.0849		0.145	pCi/L			0.41	1
Thorium-232	0.0108	U		-0.01332	U	0.0154		0.135	pCi/L			0.36	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*84.0*		*30 - 110*

Lab Sample ID: MB 160-208875/1-A
Matrix: Solid
Analysis Batch: 211336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208875

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Thorium-228	0.1454		0.0789	0.0798	0.0479	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-230	0.03851	U	0.0427	0.0428	0.0547	pCi/g	09/01/15 10:26	09/15/15 22:35	1
Thorium-232	0.01900	U	0.0299	0.0299	0.0477	pCi/g	09/01/15 10:26	09/15/15 22:35	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Thorium-229	*91.1*		*30 - 110*	*09/01/15 10:26*	*09/15/15 22:35*	*1*

Lab Sample ID: LCS 160-208875/2-A
Matrix: Solid
Analysis Batch: 211338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208875

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Thorium-230			24.5	26.39		2.70		0.0670	pCi/g	108	81 - 118		

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Thorium-229	*82.7*		*30 - 110*

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 211366

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 208875

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Thorium-228	1.27			1.092		0.229		0.0610	pCi/g			0.35	1
Thorium-230	1.00			0.7361		0.183		0.0519	pCi/g			0.63	1
Thorium-232	0.951			0.6979		0.177		0.0485	pCi/g			0.62	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*100*		*30 - 110*

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 211404

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 208875

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Thorium-228	0.508		0.6021		0.167	0.0729	pCi/g	0.29	1
Thorium-230	0.452		0.5607		0.159	0.0533	pCi/g	0.36	1
Thorium-232	0.486		0.4392		0.139	0.0306	pCi/g	0.16	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Thorium-229	*98.0*		*30 - 110*

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-208639/1-A
Matrix: Water
Analysis Batch: 209640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	-0.005596	U	0.0697	0.0697	0.188	pCi/L	08/31/15 10:06	09/04/15 12:23	1
Uranium-235/236	0.01741	U	0.0576	0.0576	0.145	pCi/L	08/31/15 10:06	09/04/15 12:23	1
Uranium-238	0.03630	U	0.0643	0.0644	0.116	pCi/L	08/31/15 10:06	09/04/15 12:23	1

Tracer	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Uranium-232	*84.9*		*30 - 110*	*08/31/15 10:06*	*09/04/15 12:23*	*1*

Lab Sample ID: LCS 160-208639/2-A
Matrix: Water
Analysis Batch: 209641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208639

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	12.7	14.19		1.71	0.200	pCi/L	111	84 - 120
Uranium-238	13.0	15.03		1.78	0.119	pCi/L	115	83 - 121

Tracer	*LCS %Yield*	*LCS Qualifier*	*Limits*
Uranium-232	*78.1*		*30 - 110*

Lab Sample ID: 200-29316-1 DU
Matrix: Water
Analysis Batch: 210157

Client Sample ID: FB001_17082015
Prep Type: Total/NA
Prep Batch: 208639

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Uranium-233/234	0.0291	U	0.08385	U	0.114	0.187	pCi/L	0.30	1
Uranium-235/236	0.0127	U	0.04521	U	0.0802	0.145	pCi/L	0.23	1
Uranium-238	0.0262	U	0.03626	U	0.0643	0.116	pCi/L	0.07	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 200-29316-1 DU
Matrix: Water
Analysis Batch: 210157

Client Sample ID: FB001_17082015
Prep Type: Total/NA
Prep Batch: 208639

Tracer	DU %Yield	DU Qualifier	Limits
Uranium-232	84.9		30 - 110

Lab Sample ID: MB 160-208898/1-A
Matrix: Solid
Analysis Batch: 211334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208898

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium-233/234	0.02893	U	0.0418	0.0419	0.0675	pCi/g	09/01/15 10:26	09/15/15 22:37	1
Uranium-235/236	0.02400	U	0.0425	0.0426	0.0767	pCi/g	09/01/15 10:26	09/15/15 22:37	1
Uranium-238	0.009625	U	0.0241	0.0241	0.0539	pCi/g	09/01/15 10:26	09/15/15 22:37	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	84.9		30 - 110	09/01/15 10:26	09/15/15 22:37	1

Lab Sample ID: LCS 160-208898/2-A
Matrix: Solid
Analysis Batch: 211335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208898

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium-233/234	6.37	6.575		0.781	0.0660	pCi/g	103	84 - 120
Uranium-238	6.51	6.823		0.803	0.0348	pCi/g	105	82 - 122

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	87.4		30 - 110

Lab Sample ID: 200-29316-8 DU
Matrix: Solid
Analysis Batch: 211370

Client Sample ID: RXR12A/-8.8--9.9/17082015
Prep Type: Total/NA
Prep Batch: 208898

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Uranium-233/234	0.822		0.7548		0.194	0.0745	pCi/g	0.17	1
Uranium-235/236	0.0232	U	0.06563		0.0614	0.0621	pCi/g	0.38	1
Uranium-238	0.864		0.7048		0.186	0.0622	pCi/g	0.40	1

Tracer	DU %Yield	DU Qualifier	Limits
Uranium-232	92.7		30 - 110

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 200-29316-17 DU
Matrix: Solid
Analysis Batch: 211358

Client Sample ID: RXR1A/+1.5--10.9/17082015
Prep Type: Total/NA
Prep Batch: 208898

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Uranium-233/234	0.486			0.3820		0.131		0.0318	pCi/g			0.37	1
Uranium-235/236	0.0344	U		0.01073	U	0.0269		0.0601	pCi/g			0.32	1
Uranium-238	0.525			0.5467		0.160		0.0550	pCi/g			0.07	1

Tracer	*DU %Yield*	*DU Qualifier*	*Limits*
Uranium-232	*91.2*		*30 - 110*

GC/MS VOA

Analysis Batch: 93241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8260C	93242
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8260C	93242
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8260C	93242
LCS 200-93241/3	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93241/5	Method Blank	Total/NA	Solid	8260C	

Prep Batch: 93242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	5035	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	5035	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	5035	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	5035	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	5035	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-9 - RE	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-10 - RE	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-11 - RE	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-12 - RE	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-13 - RE	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-15 - RE	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	5035	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-16 - RE	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	5035	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	5035	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	5035	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	5035	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	5035	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	5035	
200-29316-19 - RE	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	5035	
200-29316-20	DUP001	Total/NA	Solid	5035	
200-29316-20 - RE	DUP001	Total/NA	Solid	5035	

Analysis Batch: 93295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8260C	93242
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8260C	93242
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8260C	93242
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8260C	93242

GC/MS VOA (Continued)

Analysis Batch: 93295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8260C	93242
200-29316-20	DUP001	Total/NA	Solid	8260C	93242
LCS 200-93295/4	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93295/6	Method Blank	Total/NA	Solid	8260C	

Analysis Batch: 93314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8260C	
200-29316-22	TB	Total/NA	Water	8260C	
200-29316-23	TB2	Total/NA	Water	8260C	
LCS 200-93314/4	Lab Control Sample	Total/NA	Water	8260C	
MB 200-93314/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 93681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9 - RE	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-10 - RE	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-11 - RE	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-12 - RE	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-13 - RE	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-15 - RE	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8260C	93242
200-29316-16 - RE	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8260C	93242
200-29316-19 - RE	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8260C	93242
200-29316-20 - RE	DUP001	Total/NA	Solid	8260C	93242
LCS 200-93681/4	Lab Control Sample	Total/NA	Solid	8260C	
MB 200-93681/6	Method Blank	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 92966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	3510C	
LCS 200-92966/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92966/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 93566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-92966/2-A	Lab Control Sample	Total/NA	Water	8270D	92966
MB 200-92966/1-A	Method Blank	Total/NA	Water	8270D	92966

Analysis Batch: 93620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8270D	92966

Analysis Batch: 319075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8270D	319090
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8270D	319090
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8270D	319090
LCS 460-319090/2-A	Lab Control Sample	Total/NA	Solid	8270D	319090

GC/MS Semi VOA (Continued)

Analysis Batch: 319075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-319090/1-A	Method Blank	Total/NA	Solid	8270D	319090

Prep Batch: 319090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3546	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
LCS 460-319090/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319090/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 319228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
LCS 460-319228/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319228/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8270D	319228
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8270D	319228
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8270D	319228

Analysis Batch: 319391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-319228/2-A	Lab Control Sample	Total/NA	Solid	8270D	319228
MB 460-319228/1-A	Method Blank	Total/NA	Solid	8270D	319228

Prep Batch: 319507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3546	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3546	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3546	
200-29316-20	DUP001	Total/NA	Solid	3546	
LCS 460-319507/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319507/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 319813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8270D	319228
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8270D	319228

GC/MS Semi VOA (Continued)

Analysis Batch: 319880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8270D	319507
LCS 460-319507/2-A	Lab Control Sample	Total/NA	Solid	8270D	319507
MB 460-319507/1-A	Method Blank	Total/NA	Solid	8270D	319507

Analysis Batch: 319988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8270D	319090

Analysis Batch: 320254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8270D	319507
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8270D	319507
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8270D	319507
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8270D	319507
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8270D	319507
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8270D	319507
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8270D	319507
200-29316-20	DUP001	Total/NA	Solid	8270D	319507

GC Semi VOA

Prep Batch: 92892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	3510C	
LCS 200-92892/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-92892/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 92950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8082A	92892
LCS 200-92892/2-A	Lab Control Sample	Total/NA	Water	8082A	92892
MB 200-92892/1-A	Method Blank	Total/NA	Water	8082A	92892

Prep Batch: 93084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	3510C	
LCS 200-93084/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 200-93084/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 93143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3541	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3541	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3541	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3541	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3541	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3541	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3541	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3541	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 93143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3541	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3541	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3541	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3541	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3541	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3541	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3541	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3541	
200-29316-20	DUP001	Total/NA	Solid	3541	
LCS 200-93143/2-B	Lab Control Sample	Total/NA	Solid	3541	
MB 200-93143/1-B	Method Blank	Total/NA	Solid	3541	

Cleanup Batch: 93171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3665A	93143
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3665A	93143
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3665A	93143
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3665A	93143
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3665A	93143
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3665A	93143
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3665A	93143
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3665A	93143
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3665A	93143
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3665A	93143
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3665A	93143
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3665A	93143
200-29316-20	DUP001	Total/NA	Solid	3665A	93143
LCS 200-93143/2-B	Lab Control Sample	Total/NA	Solid	3665A	93143
MB 200-93143/1-B	Method Blank	Total/NA	Solid	3665A	93143

Analysis Batch: 93421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8081B	93084
LCS 200-93084/2-A	Lab Control Sample	Total/NA	Water	8081B	93084
MB 200-93084/1-A	Method Blank	Total/NA	Water	8081B	93084

Analysis Batch: 94212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8082A	93171
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8082A	93171
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8082A	93171
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8082A	93171
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8082A	93171
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8082A	93171
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8082A	93171
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8082A	93171

GC Semi VOA (Continued)

Analysis Batch: 94212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8082A	93171
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8082A	93171
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8082A	93171
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8082A	93171
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8082A	93171
200-29316-20	DUP001	Total/NA	Solid	8082A	93171
LCS 200-93143/2-B	Lab Control Sample	Total/NA	Solid	8082A	93171
MB 200-93143/1-B	Method Blank	Total/NA	Solid	8082A	93171

Analysis Batch: 94291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8082A	93171
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8082A	93171
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8082A	93171
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8082A	93171
MB 200-93143/1-B	Method Blank	Total/NA	Solid	8082A	93171

Prep Batch: 317809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8151A	
LCS 460-317809/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-317809/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 460-317809/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 317990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-317809/2-A	Lab Control Sample	Total/NA	Water	8151A	317809
LCSD 460-317809/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	317809
MB 460-317809/1-A	Method Blank	Total/NA	Water	8151A	317809

Analysis Batch: 318048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	8151A	317809

Prep Batch: 318962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8151A	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8151A	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8151A	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8151A	
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 319166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-318962/2-A	Lab Control Sample	Total/NA	Solid	8151A	318962
MB 460-318962/1-A	Method Blank	Total/NA	Solid	8151A	318962

Prep Batch: 319235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 319235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8151A	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8151A	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8151A	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8151A	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8151A	
LCS 460-319235/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-319235/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 319418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3546	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3546	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3546	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3546	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3546	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3546	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3546	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3546	
200-29316-20	DUP001	Total/NA	Solid	3546	
LCS 460-319418/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-319418/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 319515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8151A	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8151A	
200-29316-20	DUP001	Total/NA	Solid	8151A	
LCS 460-319515/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 460-319515/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 320005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8081B	319418
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8081B	319418
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8081B	319418
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8081B	319418
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8081B	319418

GC Semi VOA (Continued)

Analysis Batch: 320005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8081B	319418
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8081B	319418
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8081B	319418
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8081B	319418
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8081B	319418
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8081B	319418
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8081B	319418
200-29316-20	DUP001	Total/NA	Solid	8081B	319418
LCS 460-319418/2-A	Lab Control Sample	Total/NA	Solid	8081B	319418
MB 460-319418/1-A	Method Blank	Total/NA	Solid	8081B	319418

Analysis Batch: 320116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-319515/2-A	Lab Control Sample	Total/NA	Solid	8151A	319515
MB 460-319515/1-A	Method Blank	Total/NA	Solid	8151A	319515

Analysis Batch: 320158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-319235/2-A	Lab Control Sample	Total/NA	Solid	8151A	319235
MB 460-319235/1-A	Method Blank	Total/NA	Solid	8151A	319235

Analysis Batch: 320196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	319515
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	319515
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	8151A	319515
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	8151A	319515
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	8151A	319515
200-29316-20	DUP001	Total/NA	Solid	8151A	319515

Analysis Batch: 320200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	319235
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	319235
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	8151A	319235
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	8151A	319235
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	8151A	319235
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	8151A	319235
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	8151A	319235
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	8151A	319235

Analysis Batch: 320451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	8151A	318962
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	8151A	318962
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	8151A	318962

GC Semi VOA (Continued)

Analysis Batch: 320451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	8151A	318962

Metals

Prep Batch: 317717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	7470A	
LCS 460-317717/12-A	Lab Control Sample	Total/NA	Water	7470A	
MB 460-317717/11-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 317832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	7470A	317717
LCS 460-317717/12-A	Lab Control Sample	Total/NA	Water	7470A	317717
MB 460-317717/11-A	Method Blank	Total/NA	Water	7470A	317717

Prep Batch: 318031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	3010A	
LCS 460-318031/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 460-318031/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 318797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	6010C	318031
LCS 460-318031/2-A	Lab Control Sample	Total/NA	Water	6010C	318031
MB 460-318031/1-A	Method Blank	Total/NA	Water	6010C	318031

Prep Batch: 319872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3050B	
200-29316-20	DUP001	Total/NA	Solid	3050B	
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 319882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3050B	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3050B	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3050B	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3050B	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3050B	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3050B	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3050B	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3050B	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3050B	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3050B	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3050B	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3050B	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 319882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3050B	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3050B	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3050B	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3050B	
LCSSRM 460-319882/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-319882/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 320446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	6010C	319882
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	6010C	319882
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	6010C	319882
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	6010C	319882
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	6010C	319882
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	6010C	319882
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	6010C	319882
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	6010C	319882
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	6010C	319882
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	6010C	319882
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	6010C	319882
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	6010C	319882
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	6010C	319872
200-29316-20	DUP001	Total/NA	Solid	6010C	319872
LCSSRM 460-319872/2-A	Lab Control Sample	Total/NA	Solid	6010C	319872
LCSSRM 460-319882/2-A	Lab Control Sample	Total/NA	Solid	6010C	319882
MB 460-319872/1-A ^2	Method Blank	Total/NA	Solid	6010C	319872
MB 460-319882/1-A	Method Blank	Total/NA	Solid	6010C	319882

Prep Batch: 321598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 321603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	
LCSSRM 460-321603/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-321603/10-A	Method Blank	Total/NA	Solid	7471B	

Metals (Continued)

Analysis Batch: 321698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	321598
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	321598
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	321598
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7471B	321598
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	321603
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	321603
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	321603
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7471B	321603
LCSSRM 460-321598/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	321598
LCSSRM 460-321603/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	321603
MB 460-321598/10-A	Method Blank	Total/NA	Solid	7471B	321598
MB 460-321603/10-A	Method Blank	Total/NA	Solid	7471B	321603

Prep Batch: 322098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	7471B	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	7471B	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	7471B	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	7471B	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	7471B	
LCSSRM 460-322098/2-A ^2	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-322098/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	7471B	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	7471B	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	7471B	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	7471B	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	7471B	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	7471B	
200-29316-20	DUP001	Total/NA	Solid	7471B	
LCSSRM 460-322099/2-A ^2	Lab Control Sample	Total/NA	Solid	7471B	
MB 460-322099/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 322150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	7471B	322098
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	7471B	322098
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	7471B	322098
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	7471B	322098
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	7471B	322098
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	7471B	322099
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	7471B	322099
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	7471B	322099
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	7471B	322099
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	7471B	322099
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	7471B	322099
200-29316-20	DUP001	Total/NA	Solid	7471B	322099
LCSSRM 460-322098/2-A ^2	Lab Control Sample	Total/NA	Solid	7471B	322098
LCSSRM 460-322099/2-A ^2	Lab Control Sample	Total/NA	Solid	7471B	322099

Metals (Continued)

Analysis Batch: 322150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-322098/1-A	Method Blank	Total/NA	Solid	7471B	322098
MB 460-322099/1-A	Method Blank	Total/NA	Solid	7471B	322099

General Chemistry

Analysis Batch: 93164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	Moisture	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	Moisture	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Moisture	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Moisture	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	Moisture	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	Moisture	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	Moisture	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	Moisture	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	Moisture	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	Moisture	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	Moisture	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Moisture	
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Moisture	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	Moisture	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	Moisture	
200-29316-20	DUP001	Total/NA	Solid	Moisture	

Analysis Batch: 317209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	7196A	
LCSSRM 460-317209/10	Lab Control Sample	Total/NA	Water	7196A	
LCSSRM 460-317209/11	Lab Control Sample	Total/NA	Water	7196A	
MB 460-317209/9	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 317572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	7196A	

Prep Batch: 319283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	9012B	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	9012B	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	

Prep Batch: 319285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	9012B	

General Chemistry (Continued)

Prep Batch: 319285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	

Prep Batch: 319286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	9012B	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	9012B	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	9012B	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	9012B	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	9012B	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	9012B	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	9012B	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	9012B	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	9012B	
200-29316-20	DUP001	Total/NA	Solid	9012B	
200-29316-20 MS	DUP001	Total/NA	Solid	9012B	
200-29316-20 MSD	DUP001	Total/NA	Solid	9012B	
HLCS 460-319286/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 460-319286/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 460-319286/2-A	Lab Control Sample	Total/NA	Solid	9012B	
MB 460-319286/1-A	Method Blank	Total/NA	Solid	9012B	

Analysis Batch: 319305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	9012B	319286
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	9012B	319286
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	9012B	319286
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	9012B	319286
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-17 MS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-17 MSD	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	9012B	319286
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	9012B	319286
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	9012B	319286
200-29316-20	DUP001	Total/NA	Solid	9012B	319286
200-29316-20 MS	DUP001	Total/NA	Solid	9012B	319286
200-29316-20 MSD	DUP001	Total/NA	Solid	9012B	319286
HLCS 460-319286/3-A	Lab Control Sample	Total/NA	Solid	9012B	319286
LCSSRM 460-319286/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	319286
LLCS 460-319286/2-A	Lab Control Sample	Total/NA	Solid	9012B	319286
MB 460-319286/1-A	Method Blank	Total/NA	Solid	9012B	319286

Analysis Batch: 319478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	9012B	319285

General Chemistry (Continued)

Analysis Batch: 319478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	9012B	319283
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	9012B	319283
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	319283
200-29316-8 MS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	319283
200-29316-8 MSD	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	9012B	319283
HLCS 460-319283/3-A	Lab Control Sample	Total/NA	Solid	9012B	319283
HLCS 460-319285/3-A	Lab Control Sample	Total/NA	Water	9012B	319285
LCSSRM 460-319283/4-A ^2	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319283/2-A	Lab Control Sample	Total/NA	Solid	9012B	319283
LLCS 460-319285/2-A	Lab Control Sample	Total/NA	Water	9012B	319285
MB 460-319283/1-A	Method Blank	Total/NA	Solid	9012B	319283
MB 460-319285/1-A	Method Blank	Total/NA	Water	9012B	319285

Prep Batch: 322449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3060A	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3060A	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 MSI	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 MSS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
LCSI 460-322449/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322449/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-322449/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 322572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	7196A	322449
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	7196A	322449
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322449
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322449
200-29316-8 MSI	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322449
200-29316-8 MSS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322449
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322449
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322449
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322449
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322449
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322449
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322449
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322449
LCSI 460-322449/3-A	Lab Control Sample	Total/NA	Solid	7196A	322449
LCSSRM 460-322449/2-A	Lab Control Sample	Total/NA	Solid	7196A	322449
MB 460-322449/1-A	Method Blank	Total/NA	Solid	7196A	322449

General Chemistry (Continued)

Prep Batch: 322593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	3060A	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	3060A	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 MSI	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-8 MSS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	3060A	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	3060A	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	3060A	
LCSI 460-322593/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322593/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322593/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-322593/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 322596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	7196A	322593
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	7196A	322593
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322593
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322593
200-29316-8 MSI	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322593
200-29316-8 MSS	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	322593
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322593
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322593
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322593
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322593
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322593
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	7196A	322593
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	7196A	322593
LCSI 460-322593/3-A	Lab Control Sample	Total/NA	Solid	7196A	322593
LCSSRM 460-322593/2-A	Lab Control Sample	Total/NA	Solid	7196A	322593
LCSSRM 460-322593/4-A	Lab Control Sample	Total/NA	Solid	7196A	322593
MB 460-322593/1-A	Method Blank	Total/NA	Solid	7196A	322593

Analysis Batch: 322705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	7196A	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	7196A	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	7196A	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	7196A	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	7196A	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	7196A	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	7196A	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	7196A	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	7196A	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	7196A	

General Chemistry (Continued)

Prep Batch: 322851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 MSI	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 MSS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3060A	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3060A	
200-29316-20	DUP001	Total/NA	Solid	3060A	
LCSI 460-322851/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322851/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322851/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-322851/1-A	Method Blank	Total/NA	Solid	3060A	

Prep Batch: 322853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 MSI	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-17 MSS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	3060A	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	3060A	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	3060A	
200-29316-20	DUP001	Total/NA	Solid	3060A	
LCSI 460-322853/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322853/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-322853/4-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 460-322853/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 322887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322851
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322851
200-29316-17 MSI	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322851
200-29316-17 MSS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322851
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	7196A	322851
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	7196A	322851
200-29316-20	DUP001	Total/NA	Solid	7196A	322851
LCSI 460-322851/3-A	Lab Control Sample	Total/NA	Solid	7196A	322851
LCSSRM 460-322851/2-A	Lab Control Sample	Total/NA	Solid	7196A	322851
LCSSRM 460-322851/4-A	Lab Control Sample	Total/NA	Solid	7196A	322851
MB 460-322851/1-A	Method Blank	Total/NA	Solid	7196A	322851

Analysis Batch: 322895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322853
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322853
200-29316-17 MSI	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322853
200-29316-17 MSS	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	322853
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	7196A	322853
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	7196A	322853
200-29316-20	DUP001	Total/NA	Solid	7196A	322853
LCSI 460-322853/3-A	Lab Control Sample	Total/NA	Solid	7196A	322853
LCSSRM 460-322853/2-A	Lab Control Sample	Total/NA	Solid	7196A	322853

General Chemistry (Continued)

Analysis Batch: 322895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 460-322853/4-A	Lab Control Sample	Total/NA	Solid	7196A	322853
MB 460-322853/1-A	Method Blank	Total/NA	Solid	7196A	322853

Analysis Batch: 323082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	7196A	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	7196A	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	7196A	
200-29316-20	DUP001	Total/NA	Solid	7196A	

Rad

Prep Batch: 206694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	Fill_Geo-21	
200-29316-1 DU	FB001_17082015	Total/NA	Water	Fill_Geo-21	
LCS 160-206694/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	
MB 160-206694/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	

Leach Batch: 207746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	Dry and Grind	
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	Dry and Grind	
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	Dry and Grind	
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	Dry and Grind	
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	Dry and Grind	
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	Dry and Grind	
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	Dry and Grind	
200-29316-20	DUP001	Total/NA	Solid	Dry and Grind	

Prep Batch: 208181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	Fill_Geo-21	207746
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	Fill_Geo-21	207746
LCS 160-208181/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-208181/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Rad (Continued)

Prep Batch: 208182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	Fill_Geo-21	207746
200-29316-20	DUP001	Total/NA	Solid	Fill_Geo-21	207746
LCS 160-208182/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
MB 160-208182/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Prep Batch: 208637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	ExtChrom	
200-29316-1 DU	FB001_17082015	Total/NA	Water	ExtChrom	
LCS 160-208637/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-208637/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 208639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-1	FB001_17082015	Total/NA	Water	ExtChrom	
200-29316-1 DU	FB001_17082015	Total/NA	Water	ExtChrom	
LCS 160-208639/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
MB 160-208639/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 208875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	ExtChrom	207746
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-20	DUP001	Total/NA	Solid	ExtChrom	207746
LCS 160-208875/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-208875/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 208898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-2	RXR2A/-2.8--10.9/1708215	Total/NA	Solid	ExtChrom	207746
200-29316-7	RXR3C/-11.4--11.9/17082015	Total/NA	Solid	ExtChrom	207746

Rad (Continued)

Prep Batch: 208898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-29316-8	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-8 DU	RXR12A/-8.8--9.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-9	RXR12B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-10	RXR12C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-11	RXR11B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-12	RXR11C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-13	RXR10B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-15	RXR9B/-9.9--10.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-16	RXR9C/-10.4--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-17	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-17 DU	RXR1A/+1.5--10.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-18	RXR1B/-10.9--11.4/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-19	RXR1C/-11.4--11.9/17082015	Total/NA	Solid	ExtChrom	207746
200-29316-20	DUP001	Total/NA	Solid	ExtChrom	207746
LCS 160-208898/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-208898/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Client Sample ID: FB001_17082015

Lab Sample ID: 200-29316-1

Date Collected: 08/17/15 06:45

Matrix: Water

Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93314	08/28/15 12:38	JSW	TAL BUR
Total/NA	Prep	3510C			92966	08/20/15 10:33	NML	TAL BUR
Total/NA	Analysis	8270D		1	93620	09/04/15 13:08	DJB	TAL BUR
Total/NA	Prep	3510C			93084	08/24/15 09:33	NML	TAL BUR
Total/NA	Analysis	8081B		1	93421	08/31/15 20:35	KAB	TAL BUR
Total/NA	Prep	3510C			92892	08/19/15 10:50	NML	TAL BUR
Total/NA	Analysis	8082A		1	92950	08/20/15 13:48	KAD	TAL BUR
Total/NA	Prep	8151A			317809	08/20/15 11:47	MBE	TAL EDI
Total/NA	Analysis	8151A		1	318048	08/21/15 11:38	SAK	TAL EDI
Total/NA	Prep	3010A			318031	08/21/15 09:50	QZY	TAL EDI
Total/NA	Analysis	6010C		1	318797	08/25/15 19:02	YZH	TAL EDI
Total/NA	Prep	7470A			317717	08/20/15 05:22	TJS	TAL EDI
Total/NA	Analysis	7470A		1	317832	08/20/15 11:37	TJS	TAL EDI
Total/NA	Analysis	7196A		1	317572	08/19/15 13:10	TJW	TAL EDI
Total/NA	Analysis	7196A		1	317209	08/17/15 21:20	PXP	TAL EDI
Total/NA	Prep	9012B			319285	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:47	MAL	TAL EDI
Total/NA	Prep	Fill_Geo-21			206694	08/20/15 10:34	MRB	TAL SL
Total/NA	Analysis	901.1		1	210537	09/11/15 17:38	ALS	TAL SL
Total/NA	Prep	ExtChrom			208639	08/31/15 10:06	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	209642	09/04/15 12:23	CDH	TAL SL
Total/NA	Prep	ExtChrom			208637	08/31/15 10:06	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	210441	09/10/15 11:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR2A/-2.8--10.9/1708215

Lab Sample ID: 200-29316-2

Date Collected: 08/17/15 07:00

Matrix: Solid

Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211550	09/17/15 08:17	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211362	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211316	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR2A/-2.8--10.9/1708215

Date Collected: 08/17/15 07:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-2

Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 10:03	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 05:41	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 21:28	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 17:52	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 23:57	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:14	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:50	YZH	TAL EDI
Total/NA	Prep	7471B			322098	09/12/15 12:43	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 18:31	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 08:30	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 13:40	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/15/15 23:42	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:39	MAL	TAL EDI

Client Sample ID: RXR3C/-11.4--11.9/17082015

Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211548	09/17/15 08:16	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211363	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211364	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR3C/-11.4--11.9/17082015

Date Collected: 08/17/15 10:05
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-7

Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 10:33	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319988	08/31/15 23:10	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 21:41	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 12:08	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/03/15 00:12	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:47	YZH	TAL EDI
Total/NA	Prep	7471B			322098	09/12/15 12:43	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 18:33	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 08:30	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:40	MAL	TAL EDI

Client Sample ID: RXR12A/-8.8--9.9/17082015

Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211549	09/17/15 08:18	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211365	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211369	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR12A/-8.8--9.9/17082015

Date Collected: 08/17/15 10:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-8

Matrix: Solid
Percent Solids: 57.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93295	08/28/15 10:45	NEA	TAL BUR
Total/NA	Prep	3546			319090	08/26/15 22:47	JMS	TAL EDI
Total/NA	Analysis	8270D		1	319075	08/27/15 09:27	FAM	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 21:54	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		5	94212	09/21/15 18:09	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 22:36	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 20:26	YZH	TAL EDI
Total/NA	Prep	7471B			321598	09/10/15 05:11	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 10:27	TJS	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 08:30	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 13:15	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/15/15 23:42	PXP	TAL EDI
Total/NA	Prep	9012B			319283	08/27/15 13:30	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319478	08/27/15 19:31	MAL	TAL EDI

Client Sample ID: RXR12B/-9.9--10.4/17082015

Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211549	09/17/15 08:58	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211367	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211387	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR12B/-9.9--10.4/17082015

Date Collected: 08/17/15 10:40
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-9

Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 11:04	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 12:23	NEA	TAL BUR
Total/NA	Prep	3546			319228	08/27/15 10:55	MBE	TAL EDI
Total/NA	Analysis	8270D		1	319813	08/31/15 05:34	AAS	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 22:06	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		4	94291	09/22/15 13:44	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 23:28	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 20:55	YZH	TAL EDI
Total/NA	Prep	7471B			322098	09/12/15 12:43	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 18:35	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 17:55	MAL	TAL EDI

Client Sample ID: RXR12C/-10.4--10.9/17082015

Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211549	09/17/15 10:20	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211368	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211394	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR12C/-10.4--10.9/17082015

Date Collected: 08/17/15 10:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-10

Matrix: Solid
Percent Solids: 64.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 11:35	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 12:54	NEA	TAL BUR
Total/NA	Prep	3546			319228	08/27/15 10:55	MBE	TAL EDI
Total/NA	Analysis	8270D		1	319813	08/31/15 05:58	AAS	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 22:19	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		5	94291	09/22/15 14:00	ELD	TAL BUR
Total/NA	Prep	8151A			318962	08/26/15 11:22	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320451	09/02/15 23:43	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 20:58	YZH	TAL EDI
Total/NA	Prep	7471B			322098	09/12/15 12:43	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 18:37	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 17:56	MAL	TAL EDI

Client Sample ID: RXR11B/-9.9--10.4/17082015

Date Collected: 08/17/15 11:30
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208181	08/27/15 10:28	MRB	TAL SL
Total/NA	Analysis	901.1		1	211548	09/17/15 10:19	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211396	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211403	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR11B/-9.9--10.4/17082015

Lab Sample ID: 200-29316-11

Date Collected: 08/17/15 11:30
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 64.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 12:06	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 13:25	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 03:24	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 22:32	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		4	94291	09/22/15 14:17	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 22:51	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:02	YZH	TAL EDI
Total/NA	Prep	7471B			322098	09/12/15 12:43	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 18:39	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:00	MAL	TAL EDI

Client Sample ID: RXR11C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-12

Date Collected: 08/17/15 11:40
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211554	09/17/15 07:39	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211397	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211413	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR11C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-12

Date Collected: 08/17/15 11:40
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 12:36	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 13:56	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 03:47	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 22:45	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 14:03	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 23:06	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:06	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 20:46	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:01	MAL	TAL EDI

Client Sample ID: RXR10B/-9.9--10.4/17082015

Lab Sample ID: 200-29316-13

Date Collected: 08/17/15 11:50
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211551	09/17/15 07:41	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211398	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211317	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR10B/-9.9--10.4/17082015

Date Collected: 08/17/15 11:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-13

Matrix: Solid
Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 13:07	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 14:27	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 04:10	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 22:58	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		2	94291	09/22/15 14:33	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 23:20	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:09	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 19:53	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:02	MAL	TAL EDI

Client Sample ID: RXR9B/-9.9--10.4/17082015

Date Collected: 08/17/15 12:10
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211554	09/17/15 08:14	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211399	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211328	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR9B/-9.9--10.4/17082015

Lab Sample ID: 200-29316-15

Date Collected: 08/17/15 12:10
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 13:38	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 14:58	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 04:33	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 23:10	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 14:36	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 23:35	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:13	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 19:55	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:03	MAL	TAL EDI

Client Sample ID: RXR9C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-16

Date Collected: 08/17/15 12:20
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211551	09/17/15 08:18	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211401	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211337	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: RXR9C/-10.4--10.9/17082015

Lab Sample ID: 200-29316-16

Date Collected: 08/17/15 12:20
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 68.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 14:09	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 15:30	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 04:56	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 23:23	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 14:52	ELD	TAL BUR
Total/NA	Prep	8151A			319235	08/27/15 11:12	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320200	09/01/15 23:50	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:17	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 19:57	PHP	TAL EDI
Total/NA	Analysis	7196A		1	322705	09/16/15 08:56	JMP	TAL EDI
Total/NA	Prep	3060A			322449	09/15/15 09:09	RAK	TAL EDI
Total/NA	Analysis	7196A		1	322572	09/15/15 15:00	RAK	TAL EDI
Total/NA	Prep	3060A			322593	09/15/15 19:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322596	09/16/15 00:40	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:04	MAL	TAL EDI

Client Sample ID: RXR1A/+1.5--10.9/17082015

Lab Sample ID: 200-29316-17

Date Collected: 08/17/15 13:30
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211554	09/17/15 09:00	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211402	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211348	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR1A/+1.5--10.9/17082015

Lab Sample ID: 200-29316-17
Date Collected: 08/17/15 13:30
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93295	08/28/15 11:15	NEA	TAL BUR
Total/NA	Prep	3546			319228	08/27/15 10:55	MBE	TAL EDI
Total/NA	Analysis	8270D		1	319376	08/28/15 11:37	AAS	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 23:36	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 15:08	ELD	TAL BUR
Total/NA	Prep	8151A			319515	08/28/15 13:56	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320196	09/01/15 20:22	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:32	YZH	TAL EDI
Total/NA	Prep	7471B			321603	09/10/15 05:55	TJS	TAL EDI
Total/NA	Analysis	7471B		1	321698	09/10/15 11:37	TJS	TAL EDI
Total/NA	Analysis	7196A		1	323082	09/17/15 12:58	TJW	TAL EDI
Total/NA	Prep	3060A			322851	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322887	09/16/15 22:45	PXP	TAL EDI
Total/NA	Prep	3060A			322853	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322895	09/16/15 23:51	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 17:52	MAL	TAL EDI

Client Sample ID: RXR1B/-10.9--11.4/17082015

Lab Sample ID: 200-29316-18
Date Collected: 08/17/15 13:40
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211551	09/17/15 09:00	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211405	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211359	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR1B/-10.9--11.4/17082015

Lab Sample ID: 200-29316-18

Date Collected: 08/17/15 13:40
Matrix: Solid
Date Received: 08/18/15 10:20
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93241	08/27/15 14:39	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		1	320254	09/01/15 23:58	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:02	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	08/31/15 23:49	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 15:58	ELD	TAL BUR
Total/NA	Prep	8151A			319515	08/28/15 13:56	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320196	09/01/15 20:37	SAK	TAL EDI
Total/NA	Prep	3050B			319882	08/31/15 08:00	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/02/15 21:43	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 20:15	PHP	TAL EDI
Total/NA	Analysis	7196A		1	323082	09/17/15 12:58	TJW	TAL EDI
Total/NA	Prep	3060A			322851	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322887	09/16/15 22:45	PXP	TAL EDI
Total/NA	Prep	3060A			322853	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322895	09/16/15 23:51	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:04	MAL	TAL EDI

Client Sample ID: RXR1C/-11.4--11.9/17082015

Lab Sample ID: 200-29316-19

Date Collected: 08/17/15 13:50
Matrix: Solid
Date Received: 08/18/15 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211551	09/17/15 10:21	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211406	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211360	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Lab Chronicle

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Client Sample ID: RXR1C/-11.4--11.9/17082015

Date Collected: 08/17/15 13:50
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-19

Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93295	08/28/15 11:46	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 16:01	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		1	319880	08/31/15 17:24	WXC	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:03	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	09/01/15 00:02	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 16:14	ELD	TAL BUR
Total/NA	Prep	8151A			319515	08/28/15 13:56	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320196	09/01/15 20:52	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/03/15 00:07	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 20:16	PHP	TAL EDI
Total/NA	Analysis	7196A		1	323082	09/17/15 12:58	TJW	TAL EDI
Total/NA	Prep	3060A			322851	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322887	09/16/15 22:55	PXP	TAL EDI
Total/NA	Prep	3060A			322853	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322895	09/16/15 23:54	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:05	MAL	TAL EDI

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	93164	08/25/15 15:31	VTP	TAL BUR
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	Fill_Geo-21			208182	08/27/15 10:35	MRB	TAL SL
Total/NA	Analysis	901.1		1	211554	09/17/15 10:23	ALS	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208875	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211407	09/15/15 22:35	CDH	TAL SL
Total/NA	Leach	Dry and Grind			207746	08/25/15 13:56	DRO	TAL SL
Total/NA	Prep	ExtChrom			208898	09/01/15 10:26	SEK	TAL SL
Total/NA	Analysis	A-01-R		1	211361	09/15/15 22:38	CDH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	212276	09/21/15 22:06	RTM	TAL SL

Client Sample ID: DUP001

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-20

Matrix: Solid
Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			93242	08/18/15 14:50	NEA	TAL BUR
Total/NA	Analysis	8260C		1	93295	08/28/15 12:16	NEA	TAL BUR
Total/NA	Prep	5035	RE		93242	08/27/15 15:18	NEA	TAL BUR
Total/NA	Analysis	8260C	RE	1	93681	09/08/15 16:32	NEA	TAL BUR
Total/NA	Prep	3546			319507	08/28/15 13:08	MBE	TAL EDI
Total/NA	Analysis	8270D		2	320254	09/02/15 05:18	CAZ	TAL EDI
Total/NA	Prep	3546			319418	08/28/15 07:03	ARA	TAL EDI
Total/NA	Analysis	8081B		1	320005	09/01/15 00:14	SAK	TAL EDI
Total/NA	Prep	3541			93143	08/25/15 11:13	EAN	TAL BUR
Total/NA	Cleanup	3665A			93171	08/25/15 22:01	TPB	TAL BUR
Total/NA	Analysis	8082A		1	94212	09/21/15 16:30	ELD	TAL BUR
Total/NA	Prep	8151A			319515	08/28/15 13:56	MBE	TAL EDI
Total/NA	Analysis	8151A		1	320196	09/01/15 21:07	SAK	TAL EDI
Total/NA	Prep	3050B			319872	08/31/15 07:54	MDC	TAL EDI
Total/NA	Analysis	6010C		4	320446	09/03/15 00:11	YZH	TAL EDI
Total/NA	Prep	7471B			322099	09/12/15 12:44	PHP	TAL EDI
Total/NA	Analysis	7471B		1	322150	09/12/15 20:18	PHP	TAL EDI
Total/NA	Analysis	7196A		1	323082	09/17/15 12:58	TJW	TAL EDI
Total/NA	Prep	3060A			322851	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322887	09/16/15 22:55	PXP	TAL EDI
Total/NA	Prep	3060A			322853	09/16/15 18:00	PXP	TAL EDI
Total/NA	Analysis	7196A		1	322895	09/16/15 23:54	PXP	TAL EDI
Total/NA	Prep	9012B			319286	08/27/15 15:00	SAO	TAL EDI
Total/NA	Analysis	9012B		1	319305	08/27/15 18:06	MAL	TAL EDI

Client Sample ID: TB

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93314	08/28/15 13:09	JSW	TAL BUR

Client Sample ID: TB2

Date Collected: 08/17/15 00:00
Date Received: 08/18/15 10:20

Lab Sample ID: 200-29316-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	93314	08/28/15 13:41	JSW	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8081B	3510C	Water	Mirex
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
7196A		Water	Cr (III)

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15 *
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA150017	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	09-30-15 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUR
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUR
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUR
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUR
8151A	Herbicides (GC)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
9012B	Cyanide, Total andor Amenable	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL BUR
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Posillico Consulting
Project/Site: Glen Isle Waterfront Redevelopment

TestAmerica Job ID: 200-29316-2
SDG: 200-29316

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-29316-1	FB001_17082015	Water	08/17/15 06:45	08/18/15 10:20
200-29316-2	RXR2A/-2.8--10.9/1708215	Solid	08/17/15 07:00	08/18/15 10:20
200-29316-7	RXR3C/-11.4--11.9/17082015	Solid	08/17/15 10:05	08/18/15 10:20
200-29316-8	RXR12A/-8.8--9.9/17082015	Solid	08/17/15 10:30	08/18/15 10:20
200-29316-9	RXR12B/-9.9--10.4/17082015	Solid	08/17/15 10:40	08/18/15 10:20
200-29316-10	RXR12C/-10.4--10.9/17082015	Solid	08/17/15 10:50	08/18/15 10:20
200-29316-11	RXR11B/-9.9--10.4/17082015	Solid	08/17/15 11:30	08/18/15 10:20
200-29316-12	RXR11C/-10.4--10.9/17082015	Solid	08/17/15 11:40	08/18/15 10:20
200-29316-13	RXR10B/-9.9--10.4/17082015	Solid	08/17/15 11:50	08/18/15 10:20
200-29316-15	RXR9B/-9.9--10.4/17082015	Solid	08/17/15 12:10	08/18/15 10:20
200-29316-16	RXR9C/-10.4--10.9/17082015	Solid	08/17/15 12:20	08/18/15 10:20
200-29316-17	RXR1A/+1.5--10.9/17082015	Solid	08/17/15 13:30	08/18/15 10:20
200-29316-18	RXR1B/-10.9--11.4/17082015	Solid	08/17/15 13:40	08/18/15 10:20
200-29316-19	RXR1C/-11.4--11.9/17082015	Solid	08/17/15 13:50	08/18/15 10:20
200-29316-20	DUP001	Solid	08/17/15 00:00	08/18/15 10:20
200-29316-22	TB	Water	08/17/15 00:00	08/18/15 10:20
200-29316-23	TB2	Water	08/17/15 00:00	08/18/15 10:20

SDG # 200-29316 Analytical Report..... 1

Sample Receipt Documentation 56

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

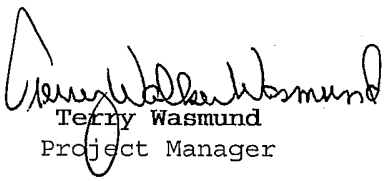
PROJECT NO. 200-29316-2

Glen Isle Waterfront Redevelop
SDG #: 200-293162

Stephanie Sanders

TestAmerica Burlington
30 Community Drive, Suite #11
South Burlington, VT 05403

TESTAMERICA LABORATORIES, INC.



Terry Wasmund
Project Manager

September 11, 2015

ANALYTICAL METHODS SUMMARY

200-293162

PARAMETER	ANALYTICAL METHOD
Dibenzodioxins and Dibenzofurans, HRGC/HRMS	SW846 8290A
Percent Moisture	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

200-293162 : H5H260403

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7HR3	001	RXR2A/-2.8--10.9/1708215	08/17/15	07:00
M7HR4	002	RXR3C/-11.4--11.9/1708215	08/17/15	10:05
M7HR5	003	RXR12A/-8.8--9.9/1708215	08/17/15	10:30
M7HR6	004	RXR12B/-9.9--10.4/1708215	08/17/15	10:40
M7HR7	005	RXR12C/-10.4--10.9/1708215	08/17/15	10:50
M7HR8	006	RXR11B/-9.9--10.4/1708215	08/17/15	11:30
M7HR9	007	RXR11C/-10.4--10.9/1708215	08/17/15	11:40
M7HTA	008	RXR10B/-9.9--10.4/1708215	08/17/15	11:50
M7HTC	009	RXR9B/-9.9--10.4/1708215	08/17/15	12:10
M7HTD	010	RXR9C/-10.4--10.9/1708215	08/17/15	12:20
M7HTE	011	RXR1A/ 1.5--10.9/1708215	08/17/15	13:30
M7HTF	012	RXR1B/-10.9--11.4/1708215	08/17/15	13:40
M7HTG	013	RXR1C/-11.4--11.9/1708215	08/17/15	13:50
M7HTH	014	DUP001	08/17/15	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

200-293162 : H5I010414

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
M7JCE	001	FB001-17082015	08/17/15	06:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
200-293162

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Chain of custody documentation was not received with the sample shipment received on 9/1/15. An email copy was sent to the lab.

The lab received only the Field Blank samples for EPA method 8290 in the sample shipment received on 9/1/15.

The "Relinquished by" field on the chain of custody documentation for 9/1/15 did not contain a signature.

The chain of custody documentation for 9/1/15 listed Method 8280A, but the client confirmed that Method 8290A was required.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For solid and sediments samples, when percent moisture is included in the report header field, the sample results are reported on a dry weight basis. When percent moisture is not contained in the header field, sample results are reported on an as received or wet weight basis.

All QC criteria were met with the following exceptions:

For samples RXR12C/-10.4—10.9/1708215, RXR9C/-10.4—10.9/1708215 and RXR12A/-8.8—9.9/1708215 matrix spike duplicate the recoveries of several internal standards were below the lower acceptance criterion (40%). The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analytes was met. The results are reported in accordance with the standard operating procedure. As indicated by the referenced method, isotope dilution techniques produce results that are independent of internal standard recovery.

The matrix spike and duplicate on sample RXR12A/-8.8—9.9/1708215 exhibited several native recoveries outside the established QC limits. The laboratory control sample was within limits indicating a lack of sample homogeneity.

The matrix spike and duplicate on sample RXR1A/1.5—10.9/1708215 exhibited native OCDD recoveries outside the established QC limits. The laboratory control sample was within limits indicating a lack of sample homogeneity.

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Comments:

All positive 2378-TCDF results at or above the minimum level were confirmed on a DB-225 column. The raw data for the DB-225 analyses are included in the data package directly following the primary Rtx-5 analysis. The results for the Rtx-5 and DB-225 analyses are included on one report form to correctly calculate the Total TEQ Concentration.

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report, the ML is qualitatively defined as described above, and quantitatively defined as follows:

Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the Upper Calibration Level (UCL) described below. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

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Example: A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this example, all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a detectable level. For this analysis, there is no method specified reporting level other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of ≥2.5 to 1. Therefore, the presence of any reportable amount of the analyte in the blank will result in a B qualifier on all associated samples.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. These may include one or more of the following:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio).
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- 2,3,7,8-TCDF result is reported from the non-isomer specific Rtx-5 column.
- Polychlorinated dibenzofuran purity. An interference may be present on the indicated polychlorinated dibenzofuran when a polychlorinated diphenyl ether peak is present and maximizes within +/- 3 seconds of the dibenzofuran candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer.

X – Other. See explanation in narrative.

Laboratory studies supporting risk assessment and Total Maximum Daily Load (TMDL) evaluations, frequently use qualified data reported as low as the Method Detection Limit (MDL), or the Estimated Detection Limit (EDL). Several of EPA's isotope dilution methods employ the EDL.[1,2,3] The EDL is based on a direct measurement of the signal-to-noise (S/N) ratio acquired during sample analysis. This S/N measurement is used to calculate the concentration in the sample corresponding to the minimum intensity of the smallest quantifiable peak. The EDL reflects the amount of the particular analyte which would be required to cause a positive result for the particular analysis. Because the S/N obtained covaries with recovery, instrument sensitivity and sample-specific cleanup efficacy, the EDL is a more valid measure of the sensitivity of the entire analytical process for the specific sample than is an MDL run periodically on a reference matrix.

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The EDL is typically calculated according to the following equation:

$$\text{Estimated Detection Limit} = \frac{N \times 2.5 \times Qis}{His \times RRF \times W \times S}$$

Where:

N	=	peak to peak noise of quantitation ion signal in the region of the ion chromatogram where the compound of interest is expected to elute
His	=	peak height of quantitation ion for appropriate internal standard
Qis	=	ng of internal standard added to sample
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor.)

This method of estimating the detection limit differs from the MDL in that it does not carry the requirement that the sample be statistically distinguished as being from a contaminated population. As results approach the EDL, the risk of false positives and the analytical uncertainty increase significantly. However, a low false positive well below the ML or MDL is often closer to the true value than an assumption that the target analyte is present at the detection or reporting limits. For relatively clean samples, MDL studies may give an elevated estimate of the detection limit. Additionally, on contaminated samples, the MDL may give a falsely low estimate of the detection limit.

$$\text{Analyte Concentration} = \frac{As \times Qis}{Ais \times RRF \times W \times S}$$

Where:

As	=	Sum of areas of the target peaks
Qis	=	ng of internal standard added to sample
Ais	=	Sum of areas of the internal standard peaks
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

In sample data, peaks must have an intensity of $\geq$2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 times the noise on the calibration. This is the result of normal variability. Because

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the source methods for the EDL (SW-846 8290 and 8280A) do not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

Footnotes:

1. Code of Federal Regulations, Part 136, Chapter 1, Appendix 1, October 1994: Method 1613 Tetra- Through Octa-Chlorinated Dioxins and Furans by Isotope Dilution High Resolution Gas Chromatography/High Resolution Mass Spectrometry.
2. U.S. EPA. Test Methods for Evaluating Solid Waste, Volume II, SW-846, Update III, December 1996. Method 8280A: The Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry.
3. U.S. EPA. Test Methods for Evaluating Solid Waste, SW-846. Third Edition. March 1995 Method 8290: Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA150004
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	TN02014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-14-7
TestAmerica Knoxville	Federal	USDA		P330-11-00260
TestAmerica Knoxville	Utah	NELAC	8	TN000092014-5
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	00165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes in this report. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

TestAmerica Burlington

Client Sample ID: RXR2A/-2.8--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 001	**Work Order #....:**	M7HR31AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	20
Initial Wgt/Vol :	12.9 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	0.973	0.290	1.0	0.145
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**0.541 Q J**	**4.86**	**0.122**	**0.5**	**0.270**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**0.613 J**	**4.86**	**0.121**	**0.1**	**0.0613**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**1.13 J**	**4.86**	**0.127**	**0.1**	**0.113**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**1.77 J**	**4.86**	**0.115**	**0.1**	**0.177**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**36.0 B**	**4.86**	**0.212**	**0.01**	**0.360**
OCDD	**9/3/15**	**1**	**836 B**	**9.73**	**0.144**	**0.001**	**0.836**
2,3,7,8-TCDF	**9/8/15**	**1**	**1.06**	**0.973**	**0.0797**	**0.1**	**0.106**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**0.772 J**	**4.86**	**0.0968**	**0.05**	**0.0386**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**1.18 J**	**4.86**	**0.0922**	**0.5**	**0.590**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**2.54 Q J**	**4.86**	**0.0792**	**0.1**	**0.254**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**1.35 J**	**4.86**	**0.0818**	**0.1**	**0.135**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**1.10 Q J**	**4.86**	**0.0805**	**0.1**	**0.110**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.86	0.101	0.1	0.00505
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**8.19**	**4.86**	**0.104**	**0.01**	**0.0819**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**0.761 Q J**	**4.86**	**0.128**	**0.01**	**0.00761**
OCDF	**9/3/15**	**1**	**9.48 Q B J**	**9.73**	**0.156**	**0.001**	**0.00948**
Total TEQ Concentration							**3.30**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(40 - 135)
13C-1,2,3,7,8-PeCDD	71	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	64	(40 - 135)
13C-OCDD	58	(40 - 135)
13C-2,3,7,8-TCDF	60	(40 - 135)
13C-1,2,3,7,8-PeCDF	65	(40 - 135)
13C-2,3,4,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	60	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	59	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	63	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	56	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	59	(40 - 135)
13C-OCDF	54	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR2A/-2.8--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR3C/-11.4--11.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 002	**Work Order #....:**	M7HR41AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	24
Initial Wgt/Vol :	13.7 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	0.962	0.313	1.0	0.156
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**0.789 Q J**	**4.81**	**0.132**	**0.5**	**0.394**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**0.466 Q J**	**4.81**	**0.121**	**0.1**	**0.0466**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**1.46 J**	**4.81**	**0.127**	**0.1**	**0.146**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**1.46 J**	**4.81**	**0.115**	**0.1**	**0.146**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**39.5 B**	**4.81**	**0.155**	**0.01**	**0.395**
OCDD	**9/3/15**	**1**	**716 B**	**9.62**	**0.138**	**0.001**	**0.716**
2,3,7,8-TCDF	**9/8/15**	**1**	**1.25**	**0.962**	**0.0781**	**0.1**	**0.125**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**0.772 J**	**4.81**	**0.100**	**0.05**	**0.0386**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**1.51 J**	**4.81**	**0.0907**	**0.5**	**0.755**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**2.85 C J**	**4.81**	**0.0762**	**0.1**	**0.285**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**1.44 Q J**	**4.81**	**0.0807**	**0.1**	**0.144**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**1.04 J**	**4.81**	**0.0804**	**0.1**	**0.104**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.81	0.0984	0.1	0.00492
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**7.70**	**4.81**	**0.103**	**0.01**	**0.0770**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**0.819 Q J**	**4.81**	**0.117**	**0.01**	**0.00819**
OCDF	**9/3/15**	**1**	**10.8 B**	**9.62**	**0.128**	**0.001**	**0.0108**
Total TEQ Concentration							**3.55**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(40 - 135)
13C-1,2,3,7,8-PeCDD	74	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	70	(40 - 135)
13C-OCDD	66	(40 - 135)
13C-2,3,7,8-TCDF	59	(40 - 135)
13C-1,2,3,7,8-PeCDF	66	(40 - 135)
13C-2,3,4,7,8-PeCDF	68	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	59	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	58	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	62	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	62	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	60	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	63	(40 - 135)
13C-OCDF	63	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR3C/-11.4--11.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR12A/-8.8--9.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 003	**Work Order #....:**	M7HR51AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	55
Initial Wgt/Vol :	20.6 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	1.07	0.420	1.0	0.210
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**1.28 J**	**5.35**	**0.189**	**0.5**	**0.640**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**1.69 J**	**5.35**	**0.194**	**0.1**	**0.169**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**4.43 J**	**5.35**	**0.218**	**0.1**	**0.443**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**4.34 Q J**	**5.35**	**0.191**	**0.1**	**0.434**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**89.7 B**	**5.35**	**0.235**	**0.01**	**0.897**
OCDD	**9/3/15**	**1**	**1180 B**	**10.7**	**0.261**	**0.001**	**1.18**
2,3,7,8-TCDF	**9/3/15**	**1**	**1.95**	**1.07**	**0.103**	**0.1**	**0.195**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**1.27 Q J**	**5.35**	**0.174**	**0.05**	**0.0635**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**2.11 J**	**5.35**	**0.166**	**0.5**	**1.05**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**4.77 Q J**	**5.35**	**0.142**	**0.1**	**0.477**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**3.99 Q J**	**5.35**	**0.150**	**0.1**	**0.399**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**2.69 J**	**5.35**	**0.153**	**0.1**	**0.269**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	5.35	0.170	0.1	0.00850
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**35.5**	**5.35**	**0.190**	**0.01**	**0.355**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**2.57 J**	**5.35**	**0.207**	**0.01**	**0.0257**
OCDF	**9/3/15**	**1**	**67.0 B**	**10.7**	**0.229**	**0.001**	**0.0670**
Total TEQ Concentration							**6.89**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	58	(40 - 135)
13C-1,2,3,7,8-PeCDD	65	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	53	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	54	(40 - 135)
13C-OCDD	46	(40 - 135)
13C-2,3,7,8-TCDF	49	(40 - 135)
13C-1,2,3,7,8-PeCDF	58	(40 - 135)
13C-2,3,4,7,8-PeCDF	59	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	49	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	48	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	50	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	50	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	47	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	49	(40 - 135)
13C-OCDF	43	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR12A/-8.8--9.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR12B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 004	**Work Order #....:**	M7HR61AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	27
Initial Wgt/Vol :	13.9 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	0.985	0.542	1.0	0.271
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**1.06 Q J**	**4.93**	**0.248**	**0.5**	**0.530**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**0.999 J**	**4.93**	**0.248**	**0.1**	**0.0999**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**2.75 J**	**4.93**	**0.244**	**0.1**	**0.275**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**2.65 J**	**4.93**	**0.229**	**0.1**	**0.265**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**51.1 B**	**4.93**	**0.247**	**0.01**	**0.511**
OCDD	**9/3/15**	**1**	**587 B**	**9.85**	**0.171**	**0.001**	**0.587**
2,3,7,8-TCDF	**9/8/15**	**1**	**2.59**	**0.985**	**0.101**	**0.1**	**0.259**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**1.88 Q J**	**4.93**	**0.176**	**0.05**	**0.0940**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**2.80 J**	**4.93**	**0.181**	**0.5**	**1.40**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**5.34 C**	**4.93**	**0.147**	**0.1**	**0.534**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**2.33 Q J**	**4.93**	**0.145**	**0.1**	**0.233**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**2.05 J**	**4.93**	**0.160**	**0.1**	**0.205**
1,2,3,7,8,9-HxCDF	**9/3/15**	**1**	**0.266 Q J**	**4.93**	**0.145**	**0.1**	**0.0266**
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**20.2**	**4.93**	**0.201**	**0.01**	**0.202**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**1.25 Q J**	**4.93**	**0.199**	**0.01**	**0.0125**
OCDF	**9/3/15**	**1**	**29.6 B**	**9.85**	**0.182**	**0.001**	**0.0296**
Total TEQ Concentration							**5.53**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	61	(40 - 135)
13C-1,2,3,7,8-PeCDD	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	68	(40 - 135)
13C-OCDD	69	(40 - 135)
13C-2,3,7,8-TCDF	61	(40 - 135)
13C-1,2,3,7,8-PeCDF	50	(40 - 135)
13C-2,3,4,7,8-PeCDF	52	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	56	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	54	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	56	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	55	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	55	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	61	(40 - 135)
13C-OCDF	59	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR12B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR12C/-10.4--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 005	**Work Order #....:**	M7HR71AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	38
Initial Wgt/Vol :	16.9 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	0.950	0.459	1.0	0.230
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**1.97 J**	**4.75**	**0.290**	**0.5**	**0.985**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**1.96 Q J**	**4.75**	**0.392**	**0.1**	**0.196**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**8.06**	**4.75**	**0.402**	**0.1**	**0.806**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**6.11 C**	**4.75**	**0.369**	**0.1**	**0.611**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**172 B**	**4.75**	**0.356**	**0.01**	**1.72**
OCDD	**9/3/15**	**1**	**2340 B**	**9.50**	**0.438**	**0.001**	**2.34**
2,3,7,8-TCDF	**9/8/15**	**1**	**6.19**	**0.950**	**0.105**	**0.1**	**0.619**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**3.86 Q J**	**4.75**	**0.238**	**0.05**	**0.193**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**6.19**	**4.75**	**0.233**	**0.5**	**3.10**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**12.6 C**	**4.75**	**0.288**	**0.1**	**1.26**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**7.31**	**4.75**	**0.304**	**0.1**	**0.731**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**4.87 Q**	**4.75**	**0.311**	**0.1**	**0.487**
1,2,3,7,8,9-HxCDF	**9/3/15**	**1**	**0.515 J**	**4.75**	**0.350**	**0.1**	**0.0515**
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**54.7**	**4.75**	**0.398**	**0.01**	**0.547**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**4.71 J**	**4.75**	**0.428**	**0.01**	**0.0471**
OCDF	**9/3/15**	**1**	**87.1 B**	**9.50**	**0.421**	**0.001**	**0.0871**
Total TEQ Concentration							**14.0**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	54	(40 - 135)
13C-1,2,3,7,8-PeCDD	41	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	59	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	54	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	46	(40 - 135)
13C-OCDD	34 *	(40 - 135)
13C-2,3,7,8-TCDF	55	(40 - 135)
13C-1,2,3,7,8-PeCDF	36 *	(40 - 135)
13C-2,3,4,7,8-PeCDF	38 *	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	53	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	48	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	50	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	52	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	49	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	47	(40 - 135)
13C-OCDF	32 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR11B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 006	**Work Order #....:**	M7HR81AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	43
Initial Wgt/Vol :	18.3 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/3/15**	**1**	**0.653 Q J**	**0.954**	**0.465**	**1.0**	**0.653**
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**2.74 J**	**4.77**	**0.373**	**0.5**	**1.37**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**3.18 J**	**4.77**	**0.442**	**0.1**	**0.318**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**7.51**	**4.77**	**0.492**	**0.1**	**0.751**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**7.74 Q**	**4.77**	**0.433**	**0.1**	**0.774**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**102 B**	**4.77**	**0.360**	**0.01**	**1.02**
OCDD	**9/3/15**	**1**	**1140 B**	**9.54**	**0.522**	**0.001**	**1.14**
2,3,7,8-TCDF	**9/8/15**	**1**	**2.56**	**0.954**	**0.129**	**0.1**	**0.256**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**2.60 Q J**	**4.77**	**0.264**	**0.05**	**0.130**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**3.26 J**	**4.77**	**0.271**	**0.5**	**1.63**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**12.1 Q**	**4.77**	**0.308**	**0.1**	**1.21**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**5.34**	**4.77**	**0.311**	**0.1**	**0.534**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**5.78**	**4.77**	**0.339**	**0.1**	**0.578**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.77	0.365	0.1	0.0182
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**46.2**	**4.77**	**0.363**	**0.01**	**0.462**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**3.12 J**	**4.77**	**0.334**	**0.01**	**0.0312**
OCDF	**9/3/15**	**1**	**79.8 B**	**9.54**	**0.466**	**0.001**	**0.0798**
Total TEQ Concentration							**11.0**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	62	(40 - 135)
13C-1,2,3,7,8-PeCDD	46	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	63	(40 - 135)
13C-OCDD	45	(40 - 135)
13C-2,3,7,8-TCDF	59	(40 - 135)
13C-1,2,3,7,8-PeCDF	43	(40 - 135)
13C-2,3,4,7,8-PeCDF	42	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	53	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	53	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	54	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	56	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	54	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	58	(40 - 135)
13C-OCDF	43	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR11B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR11C/-10.4--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 007	**Work Order #....:**	M7HR91AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	46
Initial Wgt/Vol :	18.4 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/3/15**	**1**	**0.300 J**	**1.00**	**0.301**	**1.0**	**0.300**
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**1.54 J**	**5.01**	**0.172**	**0.5**	**0.770**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**2.34 J**	**5.01**	**0.278**	**0.1**	**0.234**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**4.82 J**	**5.01**	**0.293**	**0.1**	**0.482**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**5.13 C**	**5.01**	**0.265**	**0.1**	**0.513**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**94.8 B**	**5.01**	**0.306**	**0.01**	**0.948**
OCDD	**9/3/15**	**1**	**1220 B**	**10.0**	**0.356**	**0.001**	**1.22**
2,3,7,8-TCDF	**9/8/15**	**1**	**1.66**	**1.00**	**0.0727**	**0.1**	**0.166**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**1.31 Q J**	**5.01**	**0.140**	**0.05**	**0.0655**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**1.87 J**	**5.01**	**0.134**	**0.5**	**0.935**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**3.80 Q J**	**5.01**	**0.153**	**0.1**	**0.380**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**3.21 Q J**	**5.01**	**0.161**	**0.1**	**0.321**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**2.75 Q J**	**5.01**	**0.166**	**0.1**	**0.275**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	5.01	0.189	0.1	0.00945
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**32.1**	**5.01**	**0.244**	**0.01**	**0.321**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**2.90 J**	**5.01**	**0.279**	**0.01**	**0.0290**
OCDF	**9/3/15**	**1**	**71.3 B**	**10.0**	**0.318**	**0.001**	**0.0713**
Total TEQ Concentration							**7.04**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	(40 - 135)
13C-1,2,3,7,8-PeCDD	57	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	60	(40 - 135)
13C-OCDD	46	(40 - 135)
13C-2,3,7,8-TCDF	62	(40 - 135)
13C-1,2,3,7,8-PeCDF	52	(40 - 135)
13C-2,3,4,7,8-PeCDF	51	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	52	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	56	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	56	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	54	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	54	(40 - 135)
13C-OCDF	41	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR11C/-10.4--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR10B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 008	**Work Order #....:**	M7HTA1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	38
Initial Wgt/Vol :	16.7 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/3/15**	**1**	**0.997 Q**	**0.959**	**0.462**	**1.0**	**0.997**
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**1.26 J**	**4.79**	**0.262**	**0.5**	**0.630**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**1.80 Q J**	**4.79**	**0.261**	**0.1**	**0.180**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**4.10 J**	**4.79**	**0.265**	**0.1**	**0.410**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**4.38 C J**	**4.79**	**0.245**	**0.1**	**0.438**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**88.6 B**	**4.79**	**0.314**	**0.01**	**0.886**
OCDD	**9/3/15**	**1**	**1140 B**	**9.59**	**0.490**	**0.001**	**1.14**
2,3,7,8-TCDF	**9/8/15**	**1**	**1.93**	**0.959**	**0.135**	**0.1**	**0.193**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**1.27 Q J**	**4.79**	**0.177**	**0.05**	**0.0635**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**2.03 J**	**4.79**	**0.167**	**0.5**	**1.01**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**5.45 Q**	**4.79**	**0.185**	**0.1**	**0.545**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**2.77 Q J**	**4.79**	**0.194**	**0.1**	**0.277**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**2.04 Q J**	**4.79**	**0.197**	**0.1**	**0.204**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.79	0.233	0.1	0.0116
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**30.8**	**4.79**	**0.268**	**0.01**	**0.308**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**3.32 J**	**4.79**	**0.300**	**0.01**	**0.0332**
OCDF	**9/3/15**	**1**	**68.9 B**	**9.59**	**0.362**	**0.001**	**0.0689**
Total TEQ Concentration							**7.40**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	57	(40 - 135)
13C-1,2,3,7,8-PeCDD	54	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	57	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	57	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	54	(40 - 135)
13C-OCDD	44	(40 - 135)
13C-2,3,7,8-TCDF	53	(40 - 135)
13C-1,2,3,7,8-PeCDF	48	(40 - 135)
13C-2,3,4,7,8-PeCDF	48	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	50	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	48	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	50	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	51	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	50	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	51	(40 - 135)
13C-OCDF	39 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR10B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR9B/-9.9--10.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 009	**Work Order #....:**	M7HTC1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	37
Initial Wgt/Vol :	16.6 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/3/15**	**1**	**0.828 Q J**	**0.956**	**0.484**	**1.0**	**0.828**
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**5.04**	**4.78**	**0.226**	**0.5**	**2.52**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**4.44 Q J**	**4.78**	**0.321**	**0.1**	**0.444**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**9.36**	**4.78**	**0.356**	**0.1**	**0.936**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**11.2 C**	**4.78**	**0.314**	**0.1**	**1.12**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**121 B**	**4.78**	**0.379**	**0.01**	**1.21**
OCDD	**9/3/15**	**1**	**1330 B**	**9.56**	**0.562**	**0.001**	**1.33**
2,3,7,8-TCDF	**9/8/15**	**1**	**2.75**	**0.956**	**0.109**	**0.1**	**0.275**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**3.11 J**	**4.78**	**0.200**	**0.05**	**0.156**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**5.84**	**4.78**	**0.200**	**0.5**	**2.92**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**7.58 Q**	**4.78**	**0.236**	**0.1**	**0.758**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**6.87 Q**	**4.78**	**0.255**	**0.1**	**0.687**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**6.15**	**4.78**	**0.274**	**0.1**	**0.615**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.78	0.304	0.1	0.0152
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**48.8**	**4.78**	**0.329**	**0.01**	**0.488**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**3.97 Q J**	**4.78**	**0.361**	**0.01**	**0.0397**
OCDF	**9/3/15**	**1**	**63.0 Q B**	**9.56**	**0.405**	**0.001**	**0.0630**
Total TEQ Concentration							**14.4**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	65	(40 - 135)
13C-1,2,3,7,8-PeCDD	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	62	(40 - 135)
13C-OCDD	48	(40 - 135)
13C-2,3,7,8-TCDF	59	(40 - 135)
13C-1,2,3,7,8-PeCDF	53	(40 - 135)
13C-2,3,4,7,8-PeCDF	52	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	58	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	54	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	55	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	57	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	55	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	56	(40 - 135)
13C-OCDF	44	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR9C/-10.4--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 010	**Work Order #....:**	M7HTD1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	33
Initial Wgt/Vol :	15.4 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	**9/3/15**	**1**	**0.510 Q J**	**0.973**	**0.459**	**1.0**	**0.510**
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**3.86 J**	**4.87**	**0.301**	**0.5**	**1.93**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**4.43 Q J**	**4.87**	**0.369**	**0.1**	**0.443**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**8.95**	**4.87**	**0.387**	**0.1**	**0.895**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**11.5 C**	**4.87**	**0.351**	**0.1**	**1.15**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**156 B**	**4.87**	**0.429**	**0.01**	**1.56**
OCDD	**9/3/15**	**1**	**1550 B**	**9.73**	**0.642**	**0.001**	**1.55**
2,3,7,8-TCDF	**9/9/15**	**1**	**3.50**	**0.973**	**0.135**	**0.1**	**0.350**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**3.34 J**	**4.87**	**0.218**	**0.05**	**0.167**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**5.48**	**4.87**	**0.212**	**0.5**	**2.74**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**15.7 Q**	**4.87**	**0.257**	**0.1**	**1.57**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**7.22**	**4.87**	**0.271**	**0.1**	**0.722**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**7.47**	**4.87**	**0.277**	**0.1**	**0.747**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.87	0.341	0.1	0.0170
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**58.4**	**4.87**	**0.339**	**0.01**	**0.584**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**5.85 Q**	**4.87**	**0.419**	**0.01**	**0.0585**
OCDF	**9/3/15**	**1**	**81.5 B**	**9.73**	**0.598**	**0.001**	**0.0815**
Total TEQ Concentration							**15.1**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	67	(40 - 135)
13C-1,2,3,7,8-PeCDD	64	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	55	(40 - 135)
13C-OCDD	36 *	(40 - 135)
13C-2,3,7,8-TCDF	71	(40 - 135)
13C-1,2,3,7,8-PeCDF	60	(40 - 135)
13C-2,3,4,7,8-PeCDF	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	58	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	56	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	57	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	56	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	53	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	50	(40 - 135)
13C-OCDF	32 *	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR9C/-10.4--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR1A/ 1.5--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 011	**Work Order #....:**	M7HTE1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	16
Initial Wgt/Vol :	11.9 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/3/15	1	ND	0.996	0.318	1.0	0.159
1,2,3,7,8-PeCDD	**9/3/15**	**1**	**0.828 Q J**	**4.98**	**0.147**	**0.5**	**0.414**
1,2,3,4,7,8-HxCDD	**9/3/15**	**1**	**0.417 Q J**	**4.98**	**0.143**	**0.1**	**0.0417**
1,2,3,6,7,8-HxCDD	**9/3/15**	**1**	**0.613 Q J**	**4.98**	**0.146**	**0.1**	**0.0613**
1,2,3,7,8,9-HxCDD	**9/3/15**	**1**	**1.05 Q J**	**4.98**	**0.134**	**0.1**	**0.105**
1,2,3,4,6,7,8-HpCDD	**9/3/15**	**1**	**17.2 B**	**4.98**	**0.218**	**0.01**	**0.172**
OCDD	**9/3/15**	**1**	**1320 B**	**9.96**	**0.240**	**0.001**	**1.32**
2,3,7,8-TCDF	**9/3/15**	**1**	**0.899 J**	**0.996**	**0.0499**	**0.1**	**0.0899**
1,2,3,7,8-PeCDF	**9/3/15**	**1**	**0.863 J**	**4.98**	**0.137**	**0.05**	**0.0432**
2,3,4,7,8-PeCDF	**9/3/15**	**1**	**1.36 J**	**4.98**	**0.135**	**0.5**	**0.680**
1,2,3,4,7,8-HxCDF	**9/3/15**	**1**	**2.00 Q J**	**4.98**	**0.107**	**0.1**	**0.200**
1,2,3,6,7,8-HxCDF	**9/3/15**	**1**	**1.29 Q J**	**4.98**	**0.0993**	**0.1**	**0.129**
2,3,4,6,7,8-HxCDF	**9/3/15**	**1**	**1.00 Q J**	**4.98**	**0.113**	**0.1**	**0.100**
1,2,3,7,8,9-HxCDF	9/3/15	1	ND	4.98	0.128	0.1	0.00640
1,2,3,4,6,7,8-HpCDF	**9/3/15**	**1**	**6.77**	**4.98**	**0.142**	**0.01**	**0.0677**
1,2,3,4,7,8,9-HpCDF	**9/3/15**	**1**	**1.29 J**	**4.98**	**0.176**	**0.01**	**0.0129**
OCDF	**9/3/15**	**1**	**9.57 Q B J**	**9.96**	**0.275**	**0.001**	**0.00957**
Total TEQ Concentration							**3.61**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(40 - 135)
13C-1,2,3,7,8-PeCDD	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	79	(40 - 135)
13C-OCDD	65	(40 - 135)
13C-2,3,7,8-TCDF	77	(40 - 135)
13C-1,2,3,7,8-PeCDF	70	(40 - 135)
13C-2,3,4,7,8-PeCDF	70	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	66	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	65	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	69	(40 - 135)
13C-OCDF	59	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR1A/ 1.5--10.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR1B/-10.9--11.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 012	**Work Order #....:**	M7HTF1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	22
Initial Wgt/Vol :	13.2 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	ND	0.968	0.257	1.0	0.128
1,2,3,7,8-PeCDD	**9/4/15**	**1**	**0.203 Q J**	**4.84**	**0.101**	**0.5**	**0.102**
1,2,3,4,7,8-HxCDD	9/4/15	1	ND	4.84	0.0928	0.1	0.00464
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**0.257 Q J**	**4.84**	**0.0980**	**0.1**	**0.0257**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**0.633 J**	**4.84**	**0.0887**	**0.1**	**0.0633**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**6.11 B**	**4.84**	**0.114**	**0.01**	**0.0611**
OCDD	**9/4/15**	**1**	**323 B**	**9.68**	**0.121**	**0.001**	**0.323**
2,3,7,8-TCDF	**9/9/15**	**1**	**0.526 J**	**0.968**	**0.0563**	**0.1**	**0.0526**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**0.332 Q J**	**4.84**	**0.0854**	**0.05**	**0.0166**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**0.585 Q J**	**4.84**	**0.0816**	**0.5**	**0.292**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**0.678 Q J**	**4.84**	**0.0508**	**0.1**	**0.0678**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**0.490 Q J**	**4.84**	**0.0543**	**0.1**	**0.0490**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**0.427 J**	**4.84**	**0.0562**	**0.1**	**0.0427**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	4.84	0.0658	0.1	0.00329
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**2.11 J**	**4.84**	**0.0712**	**0.01**	**0.0211**
1,2,3,4,7,8,9-HpCDF	**9/4/15**	**1**	**0.350 J**	**4.84**	**0.0902**	**0.01**	**0.00350**
OCDF	**9/4/15**	**1**	**2.95 B J**	**9.68**	**0.130**	**0.001**	**0.00295**
Total TEQ Concentration							**1.26**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(40 - 135)
13C-1,2,3,7,8-PeCDD	77	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	66	(40 - 135)
13C-OCDD	56	(40 - 135)
13C-2,3,7,8-TCDF	75	(40 - 135)
13C-1,2,3,7,8-PeCDF	70	(40 - 135)
13C-2,3,4,7,8-PeCDF	70	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	63	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	61	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	63	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	63	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	59	(40 - 135)
13C-OCDF	50	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR1B/-10.9--11.4/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: RXR1C/-11.4--11.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 013	**Work Order #....:**	M7HTG1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	6.6
Initial Wgt/Vol :	11.2 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	ND	0.956	0.275	1.0	0.138
1,2,3,7,8-PeCDD	9/4/15	1	ND	4.78	0.115	0.5	0.0288
1,2,3,4,7,8-HxCDD	**9/4/15**	**1**	**0.166 Q J**	**4.78**	**0.104**	**0.1**	**0.0166**
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**0.402 J**	**4.78**	**0.112**	**0.1**	**0.0402**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**1.64 C J**	**4.78**	**0.100**	**0.1**	**0.164**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**26.2 B**	**4.78**	**0.181**	**0.01**	**0.262**
OCDD	**9/4/15**	**1**	**2180 B**	**9.56**	**0.132**	**0.001**	**2.18**
2,3,7,8-TCDF	**9/4/15**	**1**	**0.377 Q J**	**0.956**	**0.192**	**0.1**	**0.0377**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**0.118 Q J**	**4.78**	**0.0890**	**0.05**	**0.00590**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**0.251 Q J**	**4.78**	**0.0867**	**0.5**	**0.126**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**0.558 Q J**	**4.78**	**0.0659**	**0.1**	**0.0558**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**0.295 Q J**	**4.78**	**0.0636**	**0.1**	**0.0295**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**0.207 Q J**	**4.78**	**0.0658**	**0.1**	**0.0207**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	4.78	0.0838	0.1	0.00419
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**1.28 J**	**4.78**	**0.0752**	**0.01**	**0.0128**
1,2,3,4,7,8,9-HpCDF	9/4/15	1	ND	4.78	0.0942	0.01	0.000471
OCDF	**9/4/15**	**1**	**2.14 B J**	**9.56**	**0.117**	**0.001**	**0.00214**
Total TEQ Concentration							**3.12**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(40 - 135)
13C-1,2,3,7,8-PeCDD	79	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	72	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	74	(40 - 135)
13C-OCDD	76	(40 - 135)
13C-2,3,7,8-TCDF	68	(40 - 135)
13C-1,2,3,7,8-PeCDF	74	(40 - 135)
13C-2,3,4,7,8-PeCDF	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	64	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	64	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	67	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	64	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	70	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	67	(40 - 135)
13C-OCDF	66	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: RXR1C/-11.4--11.9/1708215

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: DUP001

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5H260403 - 014	**Work Order #....:**	M7HTH1AC	**Matrix.....:**	SOLID
Date Sampled....:	08/17/15	**Date Received....:**	08/25/15	**Units....:**	pg/g
Prep Date....:	08/27/15			**Dilution Factor:**	1
Prep Batch # ....:	5239017			**Percent Moisture:**	26
Initial Wgt/Vol :	14.1 g	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/4/15	1	ND	0.960	0.325	1.0	0.162
1,2,3,7,8-PeCDD	**9/4/15**	**1**	**0.307 Q J**	**4.80**	**0.106**	**0.5**	**0.154**
1,2,3,4,7,8-HxCDD	**9/4/15**	**1**	**0.327 Q J**	**4.80**	**0.115**	**0.1**	**0.0327**
1,2,3,6,7,8-HxCDD	**9/4/15**	**1**	**0.720 Q J**	**4.80**	**0.119**	**0.1**	**0.0720**
1,2,3,7,8,9-HxCDD	**9/4/15**	**1**	**1.10 C J**	**4.80**	**0.109**	**0.1**	**0.110**
1,2,3,4,6,7,8-HpCDD	**9/4/15**	**1**	**21.4 B**	**4.80**	**0.167**	**0.01**	**0.214**
OCDD	**9/4/15**	**1**	**685 B**	**9.60**	**0.137**	**0.001**	**0.685**
2,3,7,8-TCDF	**9/9/15**	**1**	**0.931 J**	**0.960**	**0.0601**	**0.1**	**0.0931**
1,2,3,7,8-PeCDF	**9/4/15**	**1**	**0.596 Q J**	**4.80**	**0.106**	**0.05**	**0.0298**
2,3,4,7,8-PeCDF	**9/4/15**	**1**	**0.676 J**	**4.80**	**0.102**	**0.5**	**0.338**
1,2,3,4,7,8-HxCDF	**9/4/15**	**1**	**1.63 Q J**	**4.80**	**0.0661**	**0.1**	**0.163**
1,2,3,6,7,8-HxCDF	**9/4/15**	**1**	**0.707 J**	**4.80**	**0.0637**	**0.1**	**0.0707**
2,3,4,6,7,8-HxCDF	**9/4/15**	**1**	**0.514 Q J**	**4.80**	**0.0679**	**0.1**	**0.0514**
1,2,3,7,8,9-HxCDF	9/4/15	1	ND	4.80	0.0831	0.1	0.00415
1,2,3,4,6,7,8-HpCDF	**9/4/15**	**1**	**4.36 Q J**	**4.80**	**0.0892**	**0.01**	**0.0436**
1,2,3,4,7,8,9-HpCDF	**9/4/15**	**1**	**0.484 Q J**	**4.80**	**0.114**	**0.01**	**0.00484**
OCDF	**9/4/15**	**1**	**5.18 B J**	**9.60**	**0.142**	**0.001**	**0.00518**
Total TEQ Concentration							**2.23**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	63	(40 - 135)
13C-1,2,3,7,8-PeCDD	71	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	63	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	68	(40 - 135)
13C-OCDD	67	(40 - 135)
13C-2,3,7,8-TCDF	70	(40 - 135)
13C-1,2,3,7,8-PeCDF	64	(40 - 135)
13C-2,3,4,7,8-PeCDF	65	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	59	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	61	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	62	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	61	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	63	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	63	(40 - 135)
13C-OCDF	63	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: DUP001

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

Sample results, minimum levels, and estimated detection limits are reported on a dry weight basis and have been adjusted for percent moisture.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

TestAmerica Burlington

Client Sample ID: FB001-17082015

Dioxins/Furans, HRGC/HRMS (8290A)

Lot - Sample #....:	H5I010414 - 001	**Work Order #....:**	M7JCE1AA	**Matrix.....:**	WATER
Date Sampled....:	08/17/15	**Date Received....:**	09/01/15	**Units....:**	pg/L
Prep Date....:	09/02/15			**Dilution Factor:**	1
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	914 mL	**Instrument ID....:**	M2A	**Method....:**	SW846 8290A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	ANALYSIS DATE	DILUTION FACTOR	RESULT	MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	EPA 1989 TEF FACTOR	TEQ CONC.
2,3,7,8-TCDD	9/10/15	1	ND	10.9	1.95	1.0	0.975
1,2,3,7,8-PeCDD	9/10/15	1	ND	54.7	0.737	0.5	0.184
1,2,3,4,7,8-HxCDD	9/10/15	1	ND	54.7	0.875	0.1	0.0437
1,2,3,6,7,8-HxCDD	9/10/15	1	ND	54.7	0.936	0.1	0.0468
1,2,3,7,8,9-HxCDD	9/10/15	1	ND	54.7	0.842	0.1	0.0421
1,2,3,4,6,7,8-HpCDD	9/10/15	1	ND	54.7	1.10	0.01	0.00550
OCDD	**9/10/15**	**1**	**19.2 B J**	**109**	**1.53**	**0.001**	**0.0192**
2,3,7,8-TCDF	9/10/15	1	ND	10.9	1.26	0.1	0.0630
1,2,3,7,8-PeCDF	9/10/15	1	ND	54.7	0.618	0.05	0.0154
2,3,4,7,8-PeCDF	9/10/15	1	ND	54.7	0.573	0.5	0.143
1,2,3,4,7,8-HxCDF	9/10/15	1	ND	54.7	0.421	0.1	0.0210
1,2,3,6,7,8-HxCDF	9/10/15	1	ND	54.7	0.405	0.1	0.0202
2,3,4,6,7,8-HxCDF	9/10/15	1	ND	54.7	0.450	0.1	0.0225
1,2,3,7,8,9-HxCDF	**9/10/15**	**1**	**0.921 Q J**	**54.7**	**0.530**	**0.1**	**0.0921**
1,2,3,4,6,7,8-HpCDF	**9/10/15**	**1**	**1.30 Q J**	**54.7**	**0.852**	**0.01**	**0.0130**
1,2,3,4,7,8,9-HpCDF	9/10/15	1	ND	54.7	1.11	0.01	0.00555
OCDF	**9/10/15**	**1**	**8.31 B J**	**109**	**1.27**	**0.001**	**0.00831**
Total TEQ Concentration							**1.72**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	(40 - 135)
13C-1,2,3,7,8-PeCDD	88	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	85	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	71	(40 - 135)
13C-OCDD	52	(40 - 135)
13C-2,3,7,8-TCDF	78	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-2,3,4,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	81	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	81	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	68	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	66	(40 - 135)
13C-OCDF	51	(40 - 135)

NOTES:

The authors of these TEFs caution against their inappropriate application to situations where they have limited toxicological relevance.

TestAmerica Burlington

Client Sample ID: FB001-17082015

Dioxins/Furans, HRGC/HRMS (8290A)

U.S. EPA. (1989) Interim procedures for estimating risks associated with exposures to mixtures of chlorinated dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 update. EPA/625/3-89/016.

When the sample result is Not Detected (ND) the TEQ Concentration = (EDL / 2) * TEF Factor

If applicable, the TEQ Concentration for coeluting PCB isomers 156 and 157 is only added once to the Total TEQ Concentration.

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 017B	**Work Order #....:**	M7HXA1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/03/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239017				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		1.00	0.288	pg/g
1,2,3,7,8-PeCDD	ND		5.00	0.120	pg/g
1,2,3,4,7,8-HxCDD	ND		5.00	0.103	pg/g
1,2,3,6,7,8-HxCDD	ND		5.00	0.109	pg/g
1,2,3,7,8,9-HxCDD	ND		5.00	0.0981	pg/g
1,2,3,4,6,7,8-HpCDD	**0.219**	**Q J**	**5.00**	**0.0947**	**pg/g**
OCDD	**1.48**	**J**	**10.0**	**0.115**	**pg/g**
2,3,7,8-TCDF	ND		1.00	0.155	pg/g
1,2,3,7,8-PeCDF	ND		5.00	0.0633	pg/g
2,3,4,7,8-PeCDF	ND		5.00	0.0613	pg/g
1,2,3,4,7,8-HxCDF	ND		5.00	0.0526	pg/g
1,2,3,6,7,8-HxCDF	ND		5.00	0.0550	pg/g
2,3,4,6,7,8-HxCDF	ND		5.00	0.0539	pg/g
1,2,3,7,8,9-HxCDF	ND		5.00	0.0667	pg/g
1,2,3,4,6,7,8-HpCDF	ND		5.00	0.0762	pg/g
1,2,3,4,7,8,9-HpCDF	ND		5.00	0.0898	pg/g
OCDF	**0.562**	**J**	**10.0**	**0.112**	**pg/g**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	67	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,4,7,8-HxCDD	71	40 - 135
13C-1,2,3,6,7,8-HxCDD	68	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	68	40 - 135
13C-OCDD	57	40 - 135
13C-2,3,7,8-TCDF	63	40 - 135
13C-1,2,3,7,8-PeCDF	65	40 - 135
13C-2,3,4,7,8-PeCDF	66	40 - 135
13C-1,2,3,4,7,8-HxCDF	61	40 - 135
13C-1,2,3,6,7,8-HxCDF	60	40 - 135
13C-2,3,4,6,7,8-HxCDF	64	40 - 135
13C-1,2,3,7,8,9-HxCDF	63	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	64	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	64	40 - 135
13C-OCDF	59	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5H270000 - 017B	**Work Order #....:**	M7HXA1AA	**Matrix....:**	SOLID
Dilution Factor:	1				
Prep Date....:	08/27/15	**Analysis Date....:**	09/03/15	**Percent Moisture:**	0.0
Prep Batch # ....:	5239017				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HXA1AC-LCS	**Matrix .....:**	SOLID
LCS Lot-Sample# :	H5H270000 - 017				
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/02/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsl	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	**20.0**	**21.0**	**pg/g**	**105**	**(79 - 129)**
1,2,3,7,8-PeCDD	**100**	**102**	**pg/g**	**102**	**(79 - 129)**
1,2,3,4,7,8-HxCDD	**100**	**101**	**pg/g**	**101**	**(73 - 123)**
1,2,3,6,7,8-HxCDD	**100**	**97.1**	**pg/g**	**97**	**(74 - 124)**
1,2,3,7,8,9-HxCDD	**100**	**104**	**pg/g**	**104**	**(70 - 124)**
1,2,3,4,6,7,8-HpCDD	**100**	**91.8**	**pg/g**	**92 B**	**(73 - 123)**
OCDD	**200**	**181**	**pg/g**	**91 B**	**(75 - 125)**
2,3,7,8-TCDF	**20.0**	**20.9**	**pg/g**	**104**	**(75 - 125)**
1,2,3,7,8-PeCDF	**100**	**92.3**	**pg/g**	**92**	**(74 - 124)**
2,3,4,7,8-PeCDF	**100**	**98.0**	**pg/g**	**98**	**(75 - 125)**
1,2,3,4,7,8-HxCDF	**100**	**97.2**	**pg/g**	**97**	**(75 - 125)**
1,2,3,6,7,8-HxCDF	**100**	**99.5**	**pg/g**	**100**	**(76 - 126)**
2,3,4,6,7,8-HxCDF	**100**	**98.2**	**pg/g**	**98**	**(76 - 126)**
1,2,3,7,8,9-HxCDF	**100**	**95.7**	**pg/g**	**96**	**(77 - 127)**
1,2,3,4,6,7,8-HpCDF	**100**	**94.4**	**pg/g**	**94**	**(77 - 127)**
1,2,3,4,7,8,9-HpCDF	**100**	**96.2**	**pg/g**	**96**	**(73 - 123)**
OCDF	**200**	**192**	**pg/g**	**96 B**	**(49 - 128)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	67	(40 - 135)
13C-1,2,3,7,8-PeCDD	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	70	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	74	(40 - 135)
13C-OCDD	70	(40 - 135)
13C-2,3,7,8-TCDF	62	(40 - 135)
13C-1,2,3,7,8-PeCDF	69	(40 - 135)
13C-2,3,4,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	61	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	62	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	63	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	63	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	69	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	67	(40 - 135)
13C-OCDF	66	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HR51AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 003		M7HR51AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.6 g				

PARAMETER	SAMPLE AMOUNT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	**ND**	**21.6**	**23.3**	pg/g	108	(79 - 129)		
	ND	**21.6**	**26.4**	pg/g	122	(79 - 129)	13	(0 - 15)
1,2,3,7,8-PeCDD	**1.28**	**108**	**116**	pg/g	106	(79 - 129)		
	1.28	**108**	**119**	pg/g	109	(79 - 129)	3.1	(0 - 15)
1,2,3,4,7,8-HxCDD	**1.69**	**108**	**108**	pg/g	98	(73 - 123)		
	1.69	**108**	**115**	pg/g	105	(73 - 123)	7.1	(0 - 15)
1,2,3,6,7,8-HxCDD	**4.43**	**108**	**113**	pg/g	101	(73 - 127)		
	4.43	**108**	**115**	pg/g	102	(73 - 127)	1.4	(0 - 15)
1,2,3,7,8,9-HxCDD	**4.34**	**108**	**106**	pg/g	94	(65 - 141)		
	4.34	**108**	**116**	pg/g	103	(65 - 141)	8.4	(0 - 15)
1,2,3,4,6,7,8-HpCDD	**89.7**	**108**	**268**	pg/g	165 a B	(54 - 138)		
	89.7	**108**	**197**	pg/g	99 p B	(54 - 138)	31	(0 - 15)
OCDD	**1180**	**216**	**2310**	pg/g	523 a B	(31 - 154)		
	1180	**216**	**1420**	pg/g	109 p B	(31 - 154)	48	(0 - 15)
2,3,7,8-TCDF	**1.95**	**21.6**	**21.7**	pg/g	91	(75 - 125)		
	1.95	**21.6**	**21.2**	pg/g	89	(75 - 125)	2.5	(0 - 15)
1,2,3,7,8-PeCDF	**1.27**	**108**	**104**	pg/g	95	(74 - 124)		
	1.27	**108**	**110**	pg/g	100	(74 - 124)	5.7	(0 - 15)
2,3,4,7,8-PeCDF	**2.11**	**108**	**110**	pg/g	100	(75 - 125)		
	2.11	**108**	**113**	pg/g	103	(75 - 125)	3.2	(0 - 15)
1,2,3,4,7,8-HxCDF	**4.77**	**108**	**118**	pg/g	105	(75 - 125)		
	4.77	**108**	**122**	pg/g	108 Q	(75 - 125)	2.9	(0 - 15)
1,2,3,6,7,8-HxCDF	**3.99**	**108**	**114**	pg/g	102	(73 - 131)		
	3.99	**108**	**117**	pg/g	104	(73 - 131)	2.1	(0 - 15)
2,3,4,6,7,8-HxCDF	**2.69**	**108**	**112**	pg/g	101	(76 - 129)		
	2.69	**108**	**118**	pg/g	107	(76 - 129)	4.7	(0 - 15)
1,2,3,7,8,9-HxCDF	**ND**	**108**	**106**	pg/g	98	(77 - 127)		
	ND	**108**	**113**	pg/g	105	(77 - 127)	7.1	(0 - 15)
1,2,3,4,6,7,8-HpCDF	**35.5**	**108**	**163**	pg/g	118	(72 - 134)		
	35.5	**108**	**145**	pg/g	101	(72 - 134)	12	(0 - 15)
1,2,3,4,7,8,9-HpCDF	**2.57**	**108**	**110**	pg/g	100	(73 - 124)		
	2.57	**108**	**115**	pg/g	104	(73 - 124)	4.2	(0 - 15)
OCDF	**67.0**	**216**	**330**	pg/g	122 B	(45 - 135)		
	67.0	**216**	**288**	pg/g	102 B	(45 - 135)	14	(0 - 15)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HR51AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 003		M7HR51AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.6 g				

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C-2,3,7,8-TCDD	67		(40 - 135)
	55		(40 - 135)
13C-1,2,3,7,8-PeCDD	64		(40 - 135)
	56		(40 - 135)
13C-1,2,3,4,7,8-HxCDD	64		(40 - 135)
	54		(40 - 135)
13C-1,2,3,6,7,8-HxCDD	62		(40 - 135)
	54		(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	57		(40 - 135)
	53		(40 - 135)
13C-OCDD	47		(40 - 135)
	44		(40 - 135)
13C-2,3,7,8-TCDF	56		(40 - 135)
	50		(40 - 135)
13C-1,2,3,7,8-PeCDF	58		(40 - 135)
	50		(40 - 135)
13C-2,3,4,7,8-PeCDF	58		(40 - 135)
	50		(40 - 135)
13C-1,2,3,4,7,8-HxCDF	55		(40 - 135)
	47		(40 - 135)
13C-1,2,3,6,7,8-HxCDF	54		(40 - 135)
	46		(40 - 135)
13C-2,3,4,6,7,8-HxCDF	54		(40 - 135)
	47		(40 - 135)
13C-1,2,3,7,8,9-HxCDF	55		(40 - 135)
	49		(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	50		(40 - 135)
	46		(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	53		(40 - 135)
	48		(40 - 135)
13C-OCDF	43		(40 - 135)
	39	*	(40 - 135)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HR51AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 003		M7HR51AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	20.6 g				

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

*	Surrogate recovery is outside stated control limits.
a	Spiked analyte recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Estimated maximum possible concentration (EMPC).

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HTE1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 011		M7HTE1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	11.9 g				

PARAMETER	SAMPLE AMOUNT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	**ND**	19.9	21.2	pg/g	107	(79 - 129)		
	ND	19.9	21.4	pg/g	107	(79 - 129)	0.77	(0 - 15)
1,2,3,7,8-PeCDD	0.828	99.6	105	pg/g	104	(79 - 129)		
	0.828	99.6	107	pg/g	107	(79 - 129)	2.8	(0 - 15)
1,2,3,4,7,8-HxCDD	0.417	99.6	100	pg/g	100	(73 - 123)		
	0.417	99.6	102	pg/g	102	(73 - 123)	1.8	(0 - 15)
1,2,3,6,7,8-HxCDD	0.613	99.6	97.8	pg/g	98	(73 - 127)		
	0.613	99.6	98.5	pg/g	98	(73 - 127)	0.77	(0 - 15)
1,2,3,7,8,9-HxCDD	1.05	99.6	98.8	pg/g	98	(65 - 141)		
	1.05	99.6	102	pg/g	102	(65 - 141)	3.6	(0 - 15)
1,2,3,4,6,7,8-HpCDD	17.2	99.6	114	pg/g	97 B	(54 - 138)		
	17.2	99.6	111	pg/g	94 B	(54 - 138)	2.1	(0 - 15)
OCDD	1320	199	1690	pg/g	188 a B	(31 - 154)		
	1320	199	859	pg/g	0.0 a B	(31 - 154)	0.0	(0 - 15)
2,3,7,8-TCDF	0.899	19.9	17.8	pg/g	85	(75 - 125)		
	0.899	19.9	18.0	pg/g	86	(75 - 125)	1.2	(0 - 15)
1,2,3,7,8-PeCDF	0.863	99.6	95.2	pg/g	95	(74 - 124)		
	0.863	99.6	97.4	pg/g	97	(74 - 124)	2.4	(0 - 15)
2,3,4,7,8-PeCDF	1.36	99.6	98.7	pg/g	98	(75 - 125)		
	1.36	99.6	101	pg/g	100	(75 - 125)	2.6	(0 - 15)
1,2,3,4,7,8-HxCDF	2.00	99.6	101	pg/g	99	(75 - 125)		
	2.00	99.6	102	pg/g	100	(75 - 125)	1.2	(0 - 15)
1,2,3,6,7,8-HxCDF	1.29	99.6	99.9	pg/g	99	(73 - 131)		
	1.29	99.6	101	pg/g	100	(73 - 131)	1.4	(0 - 15)
2,3,4,6,7,8-HxCDF	1.00	99.6	97.8	pg/g	97	(76 - 129)		
	1.00	99.6	99.4	pg/g	99	(76 - 129)	1.7	(0 - 15)
1,2,3,7,8,9-HxCDF	ND	99.6	98.6	pg/g	99	(77 - 127)		
	ND	99.6	100	pg/g	101	(77 - 127)	1.4	(0 - 15)
1,2,3,4,6,7,8-HpCDF	6.77	99.6	104	pg/g	98	(72 - 134)		
	6.77	99.6	104	pg/g	98	(72 - 134)	0.27	(0 - 15)
1,2,3,4,7,8,9-HpCDF	1.29	99.6	98.3	pg/g	97	(73 - 124)		
	1.29	99.6	103	pg/g	102	(73 - 124)	4.9	(0 - 15)
OCDF	9.57	199	199	pg/g	95 B	(45 - 135)		
	9.57	199	208	pg/g	100 B	(45 - 135)	4.1	(0 - 15)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HTE1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 011		M7HTE1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	11.9 g				

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(40 - 135)
	73	(40 - 135)
13C-1,2,3,7,8-PeCDD	70	(40 - 135)
	80	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	73	(40 - 135)
	76	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	71	(40 - 135)
	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	65	(40 - 135)
	85	(40 - 135)
13C-OCDD	46	(40 - 135)
	82	(40 - 135)
13C-2,3,7,8-TCDF	61	(40 - 135)
	66	(40 - 135)
13C-1,2,3,7,8-PeCDF	66	(40 - 135)
	74	(40 - 135)
13C-2,3,4,7,8-PeCDF	65	(40 - 135)
	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	65	(40 - 135)
	67	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	65	(40 - 135)
	66	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	65	(40 - 135)
	69	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	62	(40 - 135)
	68	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	62	(40 - 135)
	73	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	55	(40 - 135)
	73	(40 - 135)
13C-OCDF	42	(40 - 135)
	75	(40 - 135)

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	200-293162	**Work Order # ...:**	M7HTE1AD-MS	**Matrix .....:**	SOLID
OS Lot-Sample# :	H5H260403 - 011		M7HTE1AE-MSD		
Prep Date .....:	08/27/15	**Analysis Date ..:**	09/03/15		
Prep Batch # ...:	5239017				
Dilution Factor :	1				
Analyst ID.....:	Patricia(Trish) M. Parsly	**Instrument ID..:**	M2A	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	11.9 g				

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10.0	1.53	pg/L
1,2,3,7,8-PeCDD	ND		50.0	0.578	pg/L
1,2,3,4,7,8-HxCDD	ND		50.0	0.575	pg/L
1,2,3,6,7,8-HxCDD	ND		50.0	0.601	pg/L
1,2,3,7,8,9-HxCDD	ND		50.0	0.547	pg/L
1,2,3,4,6,7,8-HpCDD	**1.15**	**Q J**	**50.0**	**0.497**	**pg/L**
OCDD	**11.0**	**J**	**100**	**0.789**	**pg/L**
2,3,7,8-TCDF	ND		10.0	0.927	pg/L
1,2,3,7,8-PeCDF	ND		50.0	0.368	pg/L
2,3,4,7,8-PeCDF	ND		50.0	0.335	pg/L
1,2,3,4,7,8-HxCDF	ND		50.0	0.392	pg/L
1,2,3,6,7,8-HxCDF	ND		50.0	0.385	pg/L
2,3,4,6,7,8-HxCDF	ND		50.0	0.382	pg/L
1,2,3,7,8,9-HxCDF	ND		50.0	0.496	pg/L
1,2,3,4,6,7,8-HpCDF	ND		50.0	0.451	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50.0	0.577	pg/L
OCDF	**3.90**	**J**	**100**	**0.717**	**pg/L**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	40 - 135
13C-1,2,3,7,8-PeCDD	89	40 - 135
13C-1,2,3,4,7,8-HxCDD	83	40 - 135
13C-1,2,3,6,7,8-HxCDD	80	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	80	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-2,3,4,7,8-PeCDF	82	40 - 135
13C-1,2,3,4,7,8-HxCDF	74	40 - 135
13C-1,2,3,6,7,8-HxCDF	73	40 - 135
13C-2,3,4,6,7,8-HxCDF	77	40 - 135
13C-1,2,3,7,8,9-HxCDF	78	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	77	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	75	40 - 135
13C-OCDF	73	40 - 135

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H5I020000 - 017B	**Work Order #....:**	M7JFV1AA	**Matrix....:**	WATER
Dilution Factor:	1				
Prep Date....:	09/02/15	**Analysis Date....:**	09/10/15		
Prep Batch # ....:	5245017				
Initial Wgt/Vol :	1000 mL	**Instrument ID....:**	M2A	**Method:**	SW846 8290A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: 200-293162 **Work Order # ...:** M7JFV1AC-LCS **Matrix .....:** WATER
LCS Lot-Sample# : H5I020000 - 017
Prep Date .....: 09/02/15 **Analysis Date ..:** 09/10/15
Prep Batch # ...: 5245017
Dilution Factor : 1
Analyst ID.....: Kathryn B. Lay **Instrument ID..:** M2A **Method.....:** SW846 8290A
Initial Wgt/Vol: 1000 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**209**	**pg/L**	**104**		**(77 - 127)**
1,2,3,7,8-PeCDD	**1000**	**1080**	**pg/L**	**108**		**(78 - 128)**
1,2,3,4,7,8-HxCDD	**1000**	**1060**	**pg/L**	**106**		**(73 - 123)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**		**(72 - 127)**
1,2,3,7,8,9-HxCDD	**1000**	**1030**	**pg/L**	**103**		**(76 - 126)**
1,2,3,4,6,7,8-HpCDD	**1000**	**974**	**pg/L**	**97**	**B**	**(73 - 123)**
OCDD	**2000**	**1830**	**pg/L**	**91**	**B**	**(75 - 125)**
2,3,7,8-TCDF	**200**	**219**	**pg/L**	**110**		**(74 - 124)**
1,2,3,7,8-PeCDF	**1000**	**986**	**pg/L**	**99**		**(74 - 124)**
2,3,4,7,8-PeCDF	**1000**	**1040**	**pg/L**	**104**		**(74 - 124)**
1,2,3,4,7,8-HxCDF	**1000**	**1030**	**pg/L**	**103**		**(75 - 125)**
1,2,3,6,7,8-HxCDF	**1000**	**1040**	**pg/L**	**104**		**(75 - 125)**
2,3,4,6,7,8-HxCDF	**1000**	**1010**	**pg/L**	**101**		**(76 - 126)**
1,2,3,7,8,9-HxCDF	**1000**	**1010**	**pg/L**	**101**		**(76 - 126)**
1,2,3,4,6,7,8-HpCDF	**1000**	**986**	**pg/L**	**99**		**(71 - 121)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1010**	**pg/L**	**101**		**(73 - 123)**
OCDF	**2000**	**1960**	**pg/L**	**98**	**B**	**(68 - 132)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,4,7,8-HxCDD	88	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	76	(40 - 135)
13C-OCDD	58	(40 - 135)
13C-2,3,7,8-TCDF	79	(40 - 135)
13C-1,2,3,7,8-PeCDF	79	(40 - 135)
13C-2,3,4,7,8-PeCDF	81	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	82	(40 - 135)
13C-1,2,3,6,7,8-HxCDF	81	(40 - 135)
13C-2,3,4,6,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,7,8,9-HxCDF	82	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	71	(40 - 135)
13C-1,2,3,4,7,8,9-HpCDF	66	(40 - 135)
13C-OCDF	54	(40 - 135)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Sample Receipt Documentation

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

HSH260403

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22570.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 200-29316-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalencey Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR2A/-2.8--10.9/1708215 (200-29316-2)	8/17/15	07:00 Eastern		Solid			X	1	CUSTODY SEALS INTACT
RXR3C/-11.4--11.9/17082015 (200-29316-7)	8/17/15	10:05 Eastern		Solid			X	1	RECEIVED AT RT 0.7 / CT 0.7°C
RXR12A/-8.8--9.9/17082015 (200-29316-8)	8/17/15	10:30 Eastern		Solid			X	1	DED 8-25-15
RXR12A/-8.8--9.9/17082015 (200-29316-8MS)	8/17/15	10:30 Eastern	MS	Solid			X	1	1 COOLER FEDX #
RXR12B/-9.9--10.4/17082015 (200-29316-9)	8/17/15	10:40 Eastern		Solid			X	1	646184059885
RXR12C/-10.4--10.9/17082015 (200-29316-10)	8/17/15	10:50 Eastern		Solid			X	1	
RXR11B/-9.9--10.4/17082015 (200-29316-11)	8/17/15	11:30 Eastern		Solid			X	1	
RXR11C/-10.4--10.9/17082015 (200-29316-12)	8/17/15	11:40 Eastern		Solid			X	1	
RXR10B/-9.9--10.4/17082015 (200-29316-13)	8/17/15	11:50 Eastern		Solid			X	1	
RXR9B/-9.9--10.4/17082015 (200-29316-15)	8/17/15	12:10 Eastern		Solid			X	1	
RXR9C/-10.4--10.9/17082015 (200-29316-16)	8/17/15	12:20 Eastern		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/24/15 1515	TA	[signature]	8-25-15 10:20	TA KNOX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

HSL1260403

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22570.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalency Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR1A/ 1.5--10.9/17082015 (200-29316-17)	8/17/15	13:30 Eastern		Solid			X	1	
RXR1A/ 1.5--10.9/17082015 (200-29316-17MS)	8/17/15	13:30 Eastern	MS	Solid			X	1	
RXR1B/-10.9--11.4/17082015 (200-29316-18)	8/17/15	13:40 Eastern		Solid			X	1	
RXR1C/-11.4--11.9/17082015 (200-29316-19)	8/17/15	13:50 Eastern		Solid			X	1	
DUP001 (200-29316-20)	8/17/15	Eastern		Solid			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/24/15 1519	TVS		8-25-15 10:20	TA KNOX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

HSH260403

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22572.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 200-29316-2
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 9/16/2015			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Dioxin Toxic Equivalencoy Total (Knoxville Laboratory))/ 8290A, Dioxin Toxic Equivalency, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RXR12A/-8.8--9.9/17082015 (200-29316-8MSD)	8/17/15	10:30 Eastern	MSD	Solid			X	1	
RXR1A/+1.5--10.9/17082015 (200-29316-17MSD)	8/17/15	13:30 Eastern	MSD	Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 8/24/15 1515	Company: TA	Received by: [signature]	Date/Time: 8-25-15 10:20	Company: TA KNOX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HSM260403

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC57 Correction factor: 0.0	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** See box 3A for pH Preservation ☐ **3b** Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken
7. Were VOA samples received without headspace?		✓		☐ **7a** Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	✓			☐ **9a** Could not be determined due to matrix interference
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired
11. For rad samples, was sample activity info. provided?				☐ Incomplete information
12. For 1613B water samples is pH<9?				If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information
19. Was the sampler identified on the COC?		✓		☐ **19a** Other

Comments/Actions Taken

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: NA

Sample Receiving Associate: _____ Date: 8-25-15

QA026R29.doc, 041115

HSI D10414.

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

200-29316 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Raranello	Lab PM: Sanders, Stephanie D.	QC No: 00-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 3
Company: ~~P.W. Grosser Consulting~~ RXR - GI Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	1613B Dioxins (TA Knoxville)	Total Number of Containers	Special Instructions/Note:
FB001_17082015	8/17/15	0645	—	Water			X	X	X	X	X	18	
RXR2A/-2.8--10.9/17082015		0700		Solid		X	X	X	X	X	X	6	
RXR2B/-10.9--11.4/17082015		0710		Solid									CUSTODY SEALS INTACT
RXR2C/-11.4--11.9/17082015		0720		Solid									RECEIVED AT RT 0.1/CT 0.1
RXR3A/-0.8--10.9/17082015		0945		Solid									DKD 9-1-15
RXR3B/-10.9--11.4/17082015		0955		Solid									1 COOLER FED X#
RXR3C/-11.4--11.9/17082015		1005		Solid									6503 7392 1660
RXR12A/-8.8--9.9/17082015 MS/MSD		1030		Solid									
RXR12B/-9.9--10.4/17082015		1040		Solid									
RXR12C/-10.4--10.9/17082015		1050		Solid									
RXR11B/-9.9--10.4/17082015		1130		Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Amanda J Raranello	8/17/15 1400	PWGC	[signature]	8/17/15 / 1400	TA
B. Sonnin -T.A.	08-17-15 17:00		[signature]	8/18/15 1020	TABJV
			[signature]	9-1-15 10:15	TA KNOX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

91898

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: #SI0102414

Review Items	Yes	No	NA	If No, what was the problem?
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☑ **1f** COC not received ☑ **1g** Other:
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : S(S7 Correction factor: 0.0	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** See box 3A for pH Preservation ☐ **3b** Other:
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:
5. Were all of the samples listed on the COC received?		✓		☐ **5a** Samples received-not on COC ☑ **5b** Samples not received-on COC
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken
7. Were VOA samples received without headspace?	✓		✓	☐ **7a** Headspace (VOA only)
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container
9. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	✓		✓	☐ **9a** Could not be determined due to matrix interference
10. Were samples received within holding time?	✓		✓	☐ **10a** Holding time expired
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____
13. Are the shipping containers intact?	✓	✓		☐ **13a** Leaking ☐ **13b** Other:
14. Was COC relinquished? (Signed/Dated/Timed)	✓	✓		☑ **14a** Not relinquished
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information
18. Is the client and project name/# identified?	✓	✓		☐ **15a** Incomplete information
19. Was the sampler identified on the COC?		✓		☐ **19a** Other

Comments/Actions Taken

IF USING EMAIL COPY

SB ONLY RECEIVED FIELD BLANKS FOR 8290 SAMPLES

NA

16; COC LIST 8280A, SHOULD BE 8290A

Labeling Verified by: **Date:**

pH test strip lot number:

	Box 3A: pH Preservation	Box 9A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Quote #: 91898 PM Instructions: _____

Sample Receiving Associate: _____ Date: 9-1-15

QA026R29.doc, 041115

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

200-29316 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Racanielle	Lab PM: Sanders, Stephanie D	QC No: 00-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1822	E-Mail: stephanie.sanders@testamericainc.com	Page: Page 1 of 3
Company: ~~P.W. Grosser Consulting~~ RXR - GI Partners, LLC			Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:		
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):		
State, Zip: ~~NY, 11542~~			
Phone:	PO #: Purchase Order Requested		
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:		
Project Name: Glen Isle Creek sampling	Project #: 20005681		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	1613B Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	F/J	N	N		
FB001-17082015	8/17/15	0645	—	~~Solid~~ Water				X	X	X	X	X	18	
RXR2A/-2.8--10.9/17082015		0700		Solid			X	X	X	X	X	X	9	
RXR2B/-10.9--11.4/17082015		0710		Solid										
RXR2C/-11.4--11.9/17082015		0720		Solid										
RXR3A/-0.8--10.9/17082015		0945		Solid										
RXR3B/-10.9--11.4/17082015		0955		Solid										
RXR3C/-11.4--11.9/17082015		1005		Solid										
RXR12A/-8.8--9.9/17082015 MS/MSD		1030		Solid									27	
RXR12B/-9.9--10.4/17082015		1040		Solid									9	
RXR12C/-10.4--10.9/17082015		1050		Solid										
RXR11B/-9.9--10.4/17082015		1130		Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Amanda J Racanielle	8/17/15 1400	PWGC	[signature]	8/17/15 1400	TA
B. Somma -T.A.	08-17-15 17:00		[signature]	8/18/15 1020	TABJV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Amanda J Racusiello	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-14290-6383.1
Client Contact: ~~Derek Ersbak~~ Ellis Koch	Phone: (516) 417-1872	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 3
Company: ~~P.W. Grosser Consulting~~ RXR-GI Partners, LLC				Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:			
City: ~~Glen Cove~~ Uniondale, NY	TAT Requested (days):			
State, Zip: ~~NY, 11542~~				
Phone:	PO #: Purchase Order Requested			
Email: ~~dereke@pwgrosser.com~~ ellis.koch@gmail.com	WO #:			
Project Name: Glen Isle Creek Sampling	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	8290A 1613B Dioxins (TA Knoxville)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	F/J	N	N		
RXR11C -10.4 - -10.9 17082015	8/17/15	1140		Solid			X	X	X	X	X	X	9	
RXR10B -9.9 - -10.4 17082015		1150		Solid										
RXR10C -10.4 - -10.9 17082015		1200		Solid										
RXR9B -9.9 - -10.4 17082015		1210		Solid										
RXR9C -10.4 - -10.9 17082015		1220		Solid										
RXR1A +1.5 - -10.9 17082015 MS/MSD		1330		Solid									27	
RXR1B -10.9 - -11.4 17082015		1340		Solid									9	
RXR1C -11.4 - -11.9 17082015		1350		Solid										
DUP001				Solid										
DUP002				Solid										
TB				~~Water~~ Solid						X			1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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Deliverable Requested: I, II, III, IV, Other (specify)

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	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Amanda J Racusiello	8/17/15 1400	PWG		8/17/15 1400	TA
2	B. Sommu T.A.	08-17-15 17:00			8/18/15 1020	TA BTV
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

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Company: ~~P.W. Grosser Consulting~~ RXR-GI Partners, LLC				Job #:
Address: ~~45 Herb Hill Road~~ 625 RXR Plaza	Due Date Requested:			
City: ~~Glen Cove~~ Uniondale NY	TAT Requested (days):			
State, Zip: ~~NY, 11542~~				
Phone:	PO #: Purchase Order Requested			
Email: ~~dereke@pwgrosser.com~~ Ellis.Kochs@gmail.com	WO #:			
Project Name: Glen Isle Creek Sampling	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

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H - Ascorbic Acid	T - TSP Dodecahydrate
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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D422 - % Passing Sieve only	6010C, 7471B, 8081B, 8082A, 8270D, Lloyd_Kahn	7196A, 7196Cr3, 8151A, 9012B (TA Edison)	8260B	901.1_Ra, A01R_Th, A01R_U (TA St. Louis)	1613B Dioxins (TA Knoxville)								Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	F/J	N	N									
TB2	—	—	—	~~Water~~ Solid						X											—
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
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	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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2	B. Sommi T.A.	08-17-15 17:00	Company	Received by:	8/18/15 1020	TASTV
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22569.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 200-29316-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2015			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_Ra228	A01R_U/Dry_Grind (MOD) Standard Target List	A01R_Th/Dry_Grind (MOD) Standard Target List	901.1_Ra/Dry_Grind (MOD) NORM Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
RXR2A/-2.8--10.9/1708215 (200-29316-2)	8/17/15	07:00 Eastern		Solid			X	X	X	X	1	
RXR3C/-11.4--11.9/17082015 (200-29316-7)	8/17/15	10:05 Eastern		Solid			X	X	X	X	1	
RXR12A/-8.8--9.9/17082015 (200-29316-8)	8/17/15	10:30 Eastern		Solid			X	X	X	X	1	
RXR12A/-8.8--9.9/17082015 (200-29316-8DU)	8/17/15	10:30 Eastern	DU	Solid			X	X	X	X	1	
RXR12B/-9.9--10.4/17082015 (200-29316-9)	8/17/15	10:40 Eastern		Solid			X	X	X	X	1	
RXR12C/-10.4--10.9/17082015 (200-29316-10)	8/17/15	10:50 Eastern		Solid			X	X	X	X	1	
RXR11B/-9.9--10.4/17082015 (200-29316-11)	8/17/15	11:30 Eastern		Solid			X	X	X	X	1	
RXR11C/-10.4--10.9/17082015 (200-29316-12)	8/17/15	11:40 Eastern		Solid			X	X	X	X	1	
RXR10B/-9.9--10.4/17082015 (200-29316-13)	8/17/15	11:50 Eastern		Solid			X	X	X	X	1	
RXR9B/-9.9--10.4/17082015 (200-29316-15)	8/17/15	12:10 Eastern		Solid			X	X	X	X	1	
RXR9C/-10.4--10.9/17082015 (200-29316-16)	8/17/15	12:20 Eastern		Solid			X	X	X	X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	8/24/15 1500	TAL	Ali Clark	8-25-15 0930	TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22569.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2015			Preservation Codes:
City: Earth City	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_Ra228	A01R_U/Dry_Grind (MOD) Standard Target List	A01R_Th/Dry_Grind (MOD) Standard Target List	901.1_Ra/Dry_Grind (MOD) NORM Target List	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
RXR1A/ 1.5--10.9/17082015 (200-29316-17)	8/17/15	13:30 Eastern		Solid			X	X	X	X	1	
RXR1A/ 1.5--10.9/17082015 (200-29316-17DU)	8/17/15	13:30 Eastern	DU	Solid			X	X	X	X	1	
RXR1B/-10.9--11.4/17082015 (200-29316-18)	8/17/15	13:40 Eastern		Solid			X	X	X	X	1	
RXR1C/-11.4--11.9/17082015 (200-29316-19)	8/17/15	13:50 Eastern		Solid			X	X	X	X	1	
DUP001 (200-29316-20)	8/17/15	Eastern		Solid			X	X	X	X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/24/15 1500	TA	Jill Clark	8.25.15 0930	TA SR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22574.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 777 New Durham Road,	Due Date Requested: 9/16/2015			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7471B/7471B_Prep	6010C/3050B (MOD) Metals TCL List	7196A/3060A	8151A/8151A_SP (MOD) Standard Herbicide List - 3 cmpds	9012B/9012B_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
RXR2A/-2.8--10.9/1708215 (200-29316-2)	8/17/15	07:00 Eastern		Solid			X	X	X	X	X	X	2	
RXR12A/-8.8--9.9/17082015 (200-29316-8)	8/17/15	10:30 Eastern		Solid			X	X	X	X	X	X	2	
RXR12A/-8.8--9.9/17082015 (200-29316-8MS)	8/17/15	10:30 Eastern	MS	Solid				X	X		X	X	2	
RXR12A/-8.8--9.9/17082015 (200-29316-8MSD)	8/17/15	10:30 Eastern	MSD	Solid							X		2	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/04/15 1600	TVA			
2	FedEx	8/20/15 945		[signature]	8/20/15 945	TA Edison
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No.: 290029

Cooler Temperature(s) °C and Other Remarks: 1.8/5.0 °C IR #5

TestAmerica Burlington
30 Community Drive Suite 11
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22573.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 777 New Durham Road, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Edison	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7196A/3060A	6010C/3060B (MOD) Metals TCL List	7471B/7471B_Prep	8151A/8151A_SP (MOD) Standard Herbicide List - 3 cmpds	9012B/9012B_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
RXR3C/-11.4--11.9/17082015 (200-29316-7)	8/17/15	10:05 Eastern		Solid			X	X	X	X	X	X		
RXR12A/-8.8--9.9/17082015 (200-29316-8)	8/17/15	10:30 Eastern		Solid			X	X	X	X	X	X		
RXR12A/-8.8--9.9/17082015 (200-29316-8MS)	8/17/15	10:30 Eastern	MS	Solid					X	X	X	X		
RXR12A/-8.8--9.9/17082015 (200-29316-8MSD)	8/17/15	10:30 Eastern	MSD	Solid							X			
RXR12B/-9.9--10.4/17082015 (200-29316-9)	8/17/15	10:40 Eastern		Solid			X	X	X	X	X	X		
RXR12C/-10.4--10.9/17082015 (200-29316-10)	8/17/15	10:50 Eastern		Solid			X	X	X	X	X	X		
RXR11B/-9.9--10.4/17082015 (200-29316-11)	8/17/15	11:30 Eastern		Solid			X	X	X	X	X	X		
RXR11C/-10.4--10.9/17082015 (200-29316-12)	8/17/15	11:40 Eastern		Solid			X	X	X	X	X	X		
RXR10B/-9.9--10.4/17082015 (200-29316-13)	8/17/15	11:50 Eastern		Solid			X	X	X	X	X	X		
RXR9B/-9.9--10.4/17082015 (200-29316-15)	8/17/15	12:10 Eastern		Solid			X	X	X	X	X	X		
RXR9C/-10.4--10.9/17082015 (200-29316-16)	8/17/15	12:20 Eastern		Solid			X	X	X	X	X	X		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/24/15 1600	TAT			
2	Fed Ex	8/25/15 945	Company	[signature]	8/25/15 945	TA Edison
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 290029	Cooler Temperature(s) °C and Other Remarks: 1.8/3.8°C IR#5

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Phone (802) 660-1990 Fax (802) 660-1919

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22573.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 777 New Durham Road,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Edison	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7196AA/3060A	6010C/3060B (MOD) Metals TCL List	7471B/7471B_Prop	8151A/8151A_SP (MOD) Standard Herbicide List - 3 cmpds	9012B/9012B_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
RXR1A/ 1.5--10.9/17082015 (200-29316-17)	8/17/15	13:30 Eastern		Solid			X	X	X	X	X	X		
RXR1A/ 1.5--10.9/17082015 (200-29316-17DU)	8/17/15	13:30 Eastern	DU	Solid			X	X	X	X		X		
RXR1A/ 1.5--10.9/17082015 (200-29316-17MS)	8/17/15	13:30 Eastern	MS	Solid					X	X	X	X		
RXR1A/ 1.5--10.9/17082015 (200-29316-17MSD)	8/17/15	13:30 Eastern	MSD	Solid							X			
RXR1B/-10.9--11.4/17082015 (200-29316-18)	8/17/15	13:40 Eastern		Solid			X	X	X	X	X	X		
RXR1C/-11.4--11.9/17082015 (200-29316-19)	8/17/15	13:50 Eastern		Solid			X	X	X	X	X	X		
DUP001 (200-29316-20)	8/17/15	Eastern		Solid			X	X	X	X	X	X		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/21/15 1000	TA			
Fed EX	8/20/15 945		[signature]	8/20/15 945	TA Edison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 290029	Cooler Temperature(s) °C and Other Remarks: 1.0/3.8 °C IR #5

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/30/2015

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sanders, Stephanie D	Carrier Tracking No(s):	COC No: 200-22575.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: stephanie.sanders@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 200-29316-2
Address: 777 New Durham Road, ,	Due Date Requested: 9/16/2015			Preservation Codes:
City: Edison	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Glen Isle Waterfront Redevelopment	Project #: 20005681			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7196A_CR3	7471B/7471B_Prep	9012B/9012B_Prep	6010C/3050B (MOD) Metals TCL List	7196A/3060A	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RXR12A/-8.8--9.9/17082015 (200-29316-8DU)	8/17/15	10:30 Eastern	DU	Solid			X	X	X	X	X		

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/24/15 1600	EA			
2		8/25/15 945			8/25/15 945	TA Edison
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.: 290029

Cooler Temperature(s) °C and Other Remarks: 1.8 / 3.8°C IR#5

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 1
Creator: Nye, Elizabeth A

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4ºC, 3.2ºC, 5.8ºC, 5.8ºC, 6.6ºC, 2.4ºC, 6.4ºC, 2.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Received broken. Transferred to new containers with minimal or no sample loss.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 2
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 08/19/15 11:45 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	289879
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2°C, 3.7°C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 4
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 08/25/15 11:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	290029
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 6
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 08/25/15 12:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	290029
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 3
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/20/15 08:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Posillico Consulting

Job Number: 200-29316-2
SDG Number: 200-29316

Login Number: 29316
List Number: 5
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 08/25/15 11:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	