Tim O'Connor & Company, LLC
environmental consultation

August 12, 2016

Mr. Mark Dennen
Principal Environmental Scientist
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908-5767

Re: Quarterly Report – 2nd Quarter 2016
Former Portsmouth Landfill

Dear: Mr. Dennen:

This Quarterly Report is submitted on behalf of AP Enterprise, LLC (APE) regarding the Portsmouth Landfill (the Property) per the Beneficial Use Determination Approval (BUDA) which was issued by the Rhode Island Department of Environmental Management (RIDEM) on September 20, 2010, amended on March 11, 2011 and March 18, 2014 and most recently renewed on September 9, 2014. On September 20, 2015 the BUDA expired.

This report covers activities conducted during the period of April 1, 2016 to June 30, 2016.

Construction Activities

Construction activities during this reporting period consisted of:

- The distribution of previously stock piled final capping soil (compliant with all RIDEM criteria);
- The delivery and management of newly accepted final capping soil;
- Seeding/erosion control activities; and
- The delivery and management of soils per Appendix A of the RIDEM Rules and Regulations for Composting and Solid Waste Management Facilities.

Photos of the Property are attached as Appendix A.

Soil Accepted

An attached table summarizes the soils delivered to the Property during this reporting period. The required laboratory analysis data for the soil reported on the table is provided in Appendix B.

Complaints

No complaints were received directly by APE during this reporting period.

Schedule

The attached figure shows the approximate status of the capping project. The APE project team estimates that approximately 20,000 cubic yards will be required to complete the capping project. It is important to note that due to settlement and compaction, the final volume of capping soil required to cap the landfill is driven by existing conditions and the elevations in the approved final site grading plan and will not be determined until the project is very close to meeting the elevations in the grading plan.

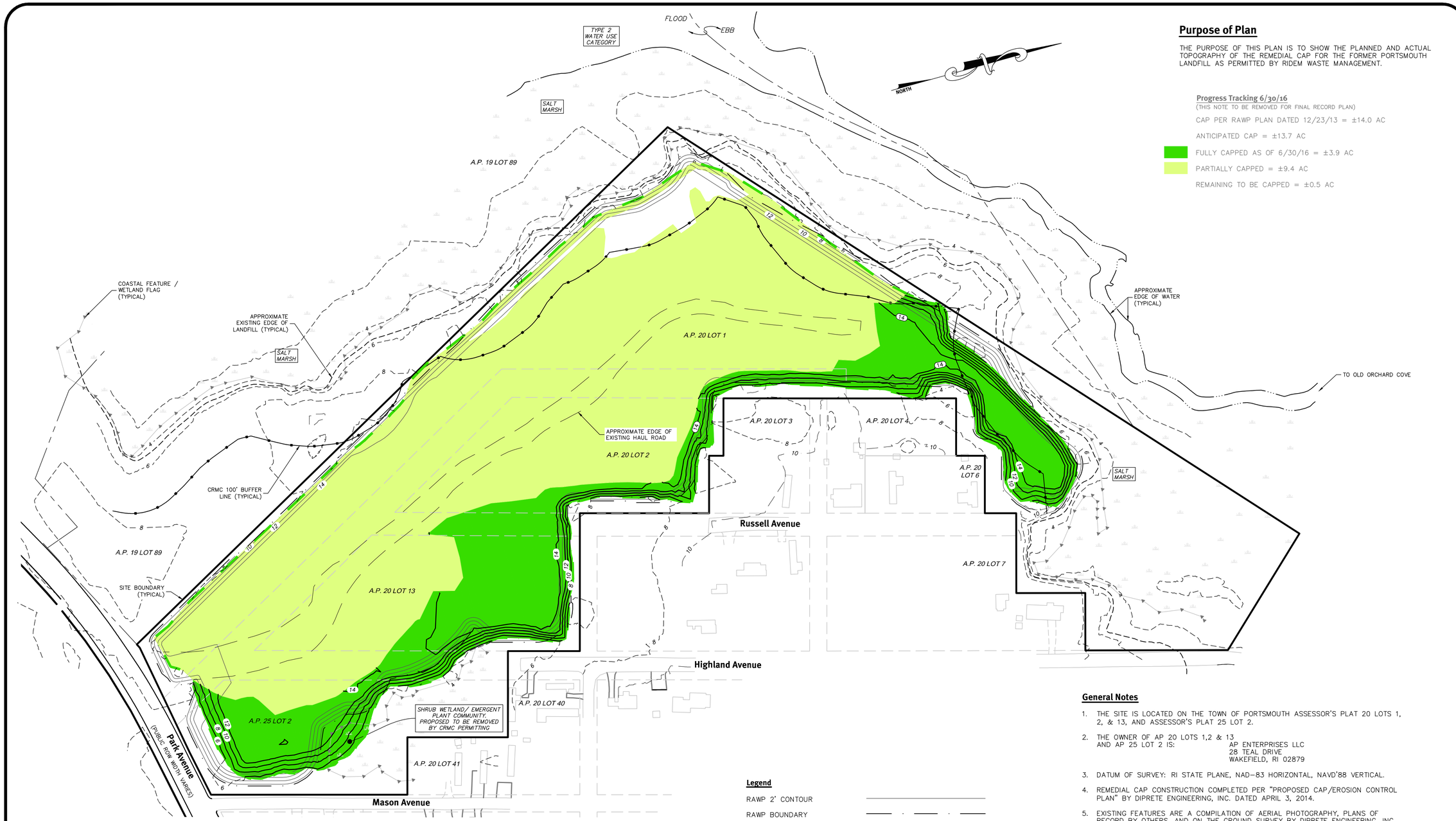
Please feel free to contact me should you have any questions regarding this matter.

Sincerely
TIM O'CONNOR & COMPANY, LLC

Timothy M. O'Connor, PE, LEED-AP
Principal

Former Portsmouth Landfill Soils Accepted
2nd Quarter 2016

Delivery Dates	Source	Consultant	Quantity (tons)
April 7 - 19, 2016	DPW Oxford, MA	Capital Environmental	3,284.90
May 25 - 31, 2016	243 Church Street, Pembroke, MA	EST Associates, Inc.	785.28
Notes		Total	4,070.18



Purpose of Plan

THE PURPOSE OF THIS PLAN IS TO SHOW THE PLANNED AND ACTUAL TOPOGRAPHY OF THE REMEDIAL CAP FOR THE FORMER PORTSMOUTH LANDFILL AS PERMITTED BY RIDEM WASTE MANAGEMENT.

Progress Tracking 6/30/16
(THIS NOTE TO BE REMOVED FOR FINAL RECORD PLAN)

CAP PER RAWP PLAN DATED 12/23/13 = ±14.0 AC

ANTICIPATED CAP = ±13.7 AC

FULLY CAPPED AS OF 6/30/16 = ±3.9 AC

PARTIALLY CAPPED = ±9.4 AC

REMAINING TO BE CAPPED = ±0.5 AC

General Notes

1. THE SITE IS LOCATED ON THE TOWN OF PORTSMOUTH ASSESSOR'S PLAT 20 LOTS 1, 2, & 13, AND ASSESSOR'S PLAT 25 LOT 2.
2. THE OWNER OF AP 20 LOTS 1,2 & 13 AND AP 25 LOT 2 IS: AP ENTERPRISES LLC, 28 TEAL DRIVE, WAKEFIELD, RI 02879
3. DATUM OF SURVEY: RI STATE PLANE, NAD-83 HORIZONTAL, NAVD'88 VERTICAL.
4. REMEDIAL CAP CONSTRUCTION COMPLETED PER "PROPOSED CAP/EROSION CONTROL PLAN" BY DIPRETE ENGINEERING, INC. DATED APRIL 3, 2014.
5. EXISTING FEATURES ARE A COMPILATION OF AERIAL PHOTOGRAPHY, PLANS OF RECORD BY OTHERS, AND ON THE GROUND SURVEY BY DIPRETE ENGINEERING, INC.
6. THIS PLAN DEPICTS PRE-REMEDIATION TOPOGRAPHY OUTSIDE CAP AREA AS SHOWN ON "BOUNDARY & TOPOGRAPHIC SURVEY PLAN – ISLAND PARK" BY WATERMAN ENGINEERING CO. DATED 05/01/07 AND CONVERTED FROM DATUM NGVD29 TO DATUM NGVD88.
7. COASTAL FEATURE AND WETLANDS FLAGS / LINES SHOWN PER "GRADING PLAN, ISLAND PARK, AP 20 LOTS 1, 2 & 13 – AP 25 LOT 2, PORTSMOUTH, RHODE ISLAND" BY WATERMAN ENGINEERING, DATED 01/04/2010. FLAGGING BY VANASSE HANGEN BRUSTLIN, INC. AND LOCATED BY FIELD SURVEY BY WATERMAN ENGINEERING.

Legend

- RAWP 2' CONTOUR
- RAWP BOUNDARY
- FINAL CAP 2' CONTOUR
- FINAL CAP BOUNDARY
- EXISTING GROUND 10' CONTOUR
- EXISTING GROUND 2' CONTOUR

Scale: 1"=80'
0 40' 80' 160'

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6036 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

PROGRESS
8/11/16

No.	Date	Description	By:
0	08-11-2016	Progress Review Plan	JBs/ADO

Checked By: ADO

RAWP Closure Record Plan

Former Kidd/Portsmouth Landfill

Assessor's Map 20 Lots 1, 2 & 13 Assessors Map 25 Lot 2
Park Avenue, Portsmouth, Rhode Island

Owner:
AP Enterprise, LLC
28 Teal Drive, Wakefield, Rhode Island 02879

SHEET 1 OF 1

DE Job No: 2057-001 Copyright 2016 by DiPrete Engineering Associates, Inc.

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Appendix A – Photographs

Photo 1 –Along the Eastern Limit of Disturbance Looking South

Photo 2 – Along the Eastern Limit of Disturbance Looking North

Photo 3 – Center Portion of Site Looking Northwest

Photo 4 – Center Portion of Site Looking South

Photo 5 – Northernmost Portion of Site

Photo 6 – Western Portion of Site Looking South (Additional Capping Soil Required)

Appendix B – Analytical Data

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

EST/TG2
Attn: Mr. Eric Simpson
51 Fremont Street
Needham, MA 02494

Date Received: 5/12/16
Date Reported: 5/16/16
P.O. #:
Work Order #: 1605-10867

DESCRIPTION: COLBEA - PEMBROKE

Subject sample(s) has/have been analyzed by our Warwick, RI laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA and Massachusetts Contingency Plan (MCP) approved methodologies where applicable. The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI LAI00033, MA M-RI015, CT PH-0508, ME RI00015
NH 2070, NY 11726

This Certificate represents all data associated with the referenced work order and is paginated for completeness. The complete Certificate includes one attachment; the original Chain of Custody.

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Data Reporting

enc: Chain of Custody

Customer Name : EST/TG2

Work Order #: 1605-10867

MassDEP Analytical Protocol Certification Form

Laboratory Name: R.I. Analytical Laboratories Work Order #: 1605-10867

Project / Location: COLBEA - PEMBROKE RTN :

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

1605-10867-001 through 1605-10867-002

Matrices: ☐ Groundwater/Surface Water ☒ Soil / Sediment ☐ Drinking Water ☐ Air ☐ Other

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☒	MassDEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☒	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☒	6020 Metals CAM III D ☐	8082 PCB CAM V A ☒	9014 Total Cyanide /PAC CAM VI A ☐	6860 Perchlorate CAM V111 B ☐	

Affirmative responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes	☐ No
B	Were the analytical methods(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes	☐ No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s) ? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes	☐ No

Responses to Questions G,H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☒ Yes	☐ No [1]

***Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☒ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☒ No [1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: [signature] Position: Laboratory Director

Printed Name: Eric H. Jensen Date: 5-17-16

Case Narrative

Date: 5/16/2016

EST/TG2
Attn: Mr. Eric Simpson

51 Fremont Street
Needham, MA 02494

Project: COLBEA - PEMBROKE

Work Order #: 1605-10867

The following exceptions were noted for this Work Order:

The methods requested for pH, Specific Condutance, Flashpoint, Sulfide Reactivity, Cyanide Reactivity, and TPH GC/FID are not listed in the table of contents for compendium of MCP analytical methods. Therefore, there is no guideline for presumptive certainty.

Volatile Organics by 8260

Question H - Analyte 2-Butanone(MEK) had a minimum response factor below the recommended limits criteria in the Continuing Calibration Standard.

Question H - Laboratory control sample (5/12/16) / laboratory control sample duplicate (5/12/16) had analytes outside the 70%-130% QC acceptance limits. Up to 10% of the analytes are allowed to be out. The specific outliers include, (Dichlorodifluoromethane 56%, 56%). These analytes were not detected in the associated samples.

Semi Volatile organics by 8270

Question H - Laboratory control sample (5/16/16)/ laboratory control sample duplicate (5/16/16) had analytes outside the 40%-140% for base-neutrals and 30%-130% for acid compounds QC acceptance limits. Up to 10% are allowed to exceed the criteria. The specific outliers include, (2-Methyl-4,6-dinitrophenol LCSD 26%, 2,4-Dinitrophenol 15%, 10%). These analytes were not detected in the associated samples.

Question H - The RPD for (2-Methyl-4,6-dinitrophenol 40%, 2,4-Dinitrophenol 39%) in the Laboratory control sample (5/16/16)/ laboratory control sample duplicate (5/16/16)was outside the 30% (soil) QC acceptance limits.

Total Metals by 6010

Question H - No MS/MSD requested for Soil/Sediment sample in this work order.

Question I - Per the client's request, only a subset of the MCP analyte list for SW-846 Method 6010 Total Metals is reported.

There were no additional exceptions or analytical issues to discuss concerning the testing requirements for the project.

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
COMM-97 Landfill Protocol							
pH	6.8		SU	SW-846 9045C	5/12/16	22:35	DET
Specific Conductance	120	1.0	uMHOS/CM	SM2510B 18-21ed	5/13/16	12:20	ML
Flashpoint	>200	80	deg F	SW-846 1010	5/13/16	16:25	RAT
Reactivity CN & S Soils							
Sulfide Reactivity	<2.5	2.5	mg/kg	SW-846 7.3.4.2	5/16/16	16:50	ML
Cyanide Reactivity	<0.10	0.10	mg/kg	SW-846 7.3.3	5/16/16	14:50	ML
TPH							
TPH GC/FID	27	11	mg/kg dry	SW-846 8100M	5/13/16	10:17	KP
Surrogate			RANGE	SW-846 8100M	5/13/16	10:17	KP
2-Fluorobiphenyl	71		40-140%	SW-846 8100M	5/13/16	10:17	KP
PCB							
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1262	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Aroclor-1268	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	13:26	JBW
Surrogate			RANGE				
Tetrachloro-m-xylene (TCMX)	71		30-150%	SW-846 8082A	5/16/16	13:26	JBW
Decachlorobiphenyl	73		30-150%	SW-846 8082A	5/16/16	13:26	JBW
Extraction Date				SW-846 3546	5/12/16	20:00	CCS
Volatile Organic Compounds							
Acetone	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Tertiary Amyl Methyl Ether	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Benzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Bromobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Bromochloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Bromodichloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Bromoform	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Bromomethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Sec-butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
n-Butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
tert-Butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Carbon Disulfide	<0.29	0.29	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Carbon Tetrachloride	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Chlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Dibromochloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Chloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Chloroform	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Chloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
2-Chlorotoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
4-Chlorotoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2-Dibromo-3-Chloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2-Dibromoethane(EDB)	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Dibromomethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,3-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,4-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
n-Propylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Dichlorodifluoromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1-Dichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2-Dichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1-Dichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
cis-1,2-Dichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
trans-1,2-Dichloroethylene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,3-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
2,2-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1-Dichloropropene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
cis-1,3-Dichloropropene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
trans-1,3-Dichloropropylene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Diethyl ether	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Diisopropyl Ether (DIPE)	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,4-Dioxane	<5.9	5.9	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Ethyl Tertiary Butyl Ether	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Ethylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Hexachlorobutadiene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
2-Hexanone	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Isopropylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
p-Isopropyltoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
2-Butanone(MEK)	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
4-Methyl-2-pentanone(MIBK)	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
MTBE	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Methylene Chloride	<0.29	0.29	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Naphthalene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1,2-Trichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Styrene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1,1,2-Tetrachloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1,2,2-Tetrachloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Tetrachloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Tetrahydrofuran	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Toluene	0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2,4-Trichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2,3-Trichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,1,1-Trichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Trichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Trichlorofluoromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2,3-Trichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,2,4-Trimethylbenzene	0.87	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
1,3,5-Trimethylbenzene	0.30	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Vinyl Chloride	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
o-Xylene	0.2	0.12	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
m,p-Xylene	0.51	0.24	mg/kg dry	SW-846 8260C	5/12/16	19:44	KF
Surrogates			RANGE				
Dibromofluoromethane	83		70-130%	SW-846 8260C	5/12/16	19:44	KF
Toluene-d8	81		70-130%	SW-846 8260C	5/12/16	19:44	KF
4-Bromofluorobenzene	80		70-130%	SW-846 8260C	5/12/16	19:44	KF
1,2 Dichloroethane-d4	84		70-130%	SW-846 8260C	5/12/16	19:44	KF
Semi-Volatile Organic Comp.							
Acenaphthene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Acenaphthylene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Benzidine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Benzo(a)anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Benzo(b)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Benzo(k)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Benzo(g,h,i)perylene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Benzo(a)pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Bis(2-chloroethyl)ether	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Bis(2-Chloroethoxy)methane	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Bis(2-Chloroisopropyl)Ether	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Bis(2-ethylhexyl)phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
4-Bromophenyl phenyl ether	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Butylbenzyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Chloronaphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
4-Chlorophenyl phenyl ether	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Chrysene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Dibenzo(a,h)anthracene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Di-n-butyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
1,2-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
1,3-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
1,4-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
3,3'-Dichlorobenzidine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Diethyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Dimethyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4-Dinitrotoluene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,6-Dinitrotoluene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Di-n-octyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
1,2-Diphenylhydrazine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Fluorene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Hexachlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Hexachlorobutadiene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Hexachlorocyclopentadiene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Hexachloroethane	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Indeno(1,2,3-cd)pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Isophorone	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Methylnaphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Naphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Nitrobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
N-nitrosodimethylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
N-nitrosodiphenylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
N-nitrosodi-n-propylamine	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Phenanthrene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
1,2,4-Trichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
4-Chloro-3-methylphenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Chlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4-Dichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4-Dimethylphenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Methyl-4,6-dinitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4-Dinitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Nitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
4-Nitrophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Pentachlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Phenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4,5-Trichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2,4,6-Trichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
4-Chloroaniline	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Dibenzofuran	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
2-Methyl Phenol	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
3 & 4-Methylphenols	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Aniline	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Acetophenone	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Azobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	5/16/16	13:28	JEB
Surrogates			RANGE				
Phenol-d5	58		30-130%	SW-846 8270D	5/16/16	13:28	JEB
2-Fluorophenol	59		30-130%	SW-846 8270D	5/16/16	13:28	JEB
2,4,6-Tribromophenol	74		30-130%	SW-846 8270D	5/16/16	13:28	JEB
Nitrobenzene-d5	58		30-130%	SW-846 8270D	5/16/16	13:28	JEB
2-Fluorobiphenyl	58		30-130%	SW-846 8270D	5/16/16	13:28	JEB
P-Terphenyl-d14	54		30-130%	SW-846 8270D	5/16/16	13:28	JEB
Semi Extraction Date				SW-846 3546	5/12/16	14:35	CCS
Total Metals							
Arsenic	<2.7	2.7	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
Barium	12	0.54	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
Cadmium	1.2	0.27	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
Chromium	8.8	1.6	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
Lead	9.9	2.1	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 001
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-1
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Mercury	<0.094	0.094	mg/kg dry	SW-846 7471B	5/16/16	12:42	JRW
Selenium	<5.4	5.4	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
Silver	<1.1	1.1	mg/kg dry	SW-846 6010C	5/16/16	12:32	JRW
ICP Digestion				SW-846 3050B	5/13/16	22:12	RBR
Mercury Digestion				SW-846 7471B	5/16/16	12:04	CRC
Extraction Date				SW-846 5035	5/12/16	0:00	*CS

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
COMM-97 Landfill Protocol							
pH	8.1		SU	SW-846 9045C	5/12/16	22:35	DET
Specific Conductance	37	1.0	uMHOS/CM	SM2510B 18-21ed	5/13/16	12:20	ML
Flashpoint	>200	80	deg F	SW-846 1010	5/13/16	16:35	RAT
Reactivity CN & S Soils							
Sulfide Reactivity	<2.5	2.5	mg/kg	SW-846 7.3.4.2	5/16/16	16:50	ML
Cyanide Reactivity	<0.10	0.10	mg/kg	SW-846 7.3.3	5/16/16	14:50	ML
TPH							
TPH GC/FID	37	11	mg/kg dry	SW-846 8100M	5/13/16	11:15	KP
Surrogate			RANGE	SW-846 8100M	5/13/16	11:15	KP
2-Fluorobiphenyl	78		40-140%	SW-846 8100M	5/13/16	11:15	KP
PCB							
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1262	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Aroclor-1268	<0.1	0.1	mg/kg dry	SW-846 8082A	5/16/16	14:24	JBW
Surrogate			RANGE				
Tetrachloro-m-xylene (TCMX)	78		30-150%	SW-846 8082A	5/16/16	14:24	JBW
Decachlorobiphenyl	93		30-150%	SW-846 8082A	5/16/16	14:24	JBW
Extraction Date				SW-846 3546	5/12/16	20:00	CCS
Volatile Organic Compounds							
Acetone	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Tertiary Amyl Methyl Ether	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Benzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Bromobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Bromochloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Bromodichloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Bromoform	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Bromomethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Sec-butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16

Work Order #: 1605-10867

COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
n-Butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
tert-Butylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Carbon Disulfide	<0.30	0.30	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Carbon Tetrachloride	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Chlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Dibromochloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Chloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Chloroform	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Chloromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
2-Chlorotoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
4-Chlorotoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2-Dibromo-3-Chloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2-Dibromoethane(EDB)	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Dibromomethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,3-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,4-Dichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
n-Propylbenzene	0.22	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Dichlorodifluoromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1-Dichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2-Dichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1-Dichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
cis-1,2-Dichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
trans-1,2-Dichloroethylene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,3-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
2,2-Dichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1-Dichloropropene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
cis-1,3-Dichloropropene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
trans-1,3-Dichloropropylene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Diethyl ether	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Diisopropyl Ether (DIPE)	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,4-Dioxane	<5.9	5.9	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Ethyl Tertiary Butyl Ether	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Ethylbenzene	0.44	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Hexachlorobutadiene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
2-Hexanone	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Isopropylbenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
p-Isopropyltoluene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
2-Butanone(MEK)	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
4-Methyl-2-pentanone(MIBK)	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
MTBE	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Methylene Chloride	<0.30	0.30	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Naphthalene	0.24	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1,2-Trichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Styrene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1,1,2-Tetrachloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1,2,2-Tetrachloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Tetrachloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Tetrahydrofuran	<1.2	1.2	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Toluene	1.0	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2,4-Trichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2,3-Trichlorobenzene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,1,1-Trichloroethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Trichloroethene	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Trichlorofluoromethane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2,3-Trichloropropane	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,2,4-Trimethylbenzene	1.5	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
1,3,5-Trimethylbenzene	0.42	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Vinyl Chloride	<0.12	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
o-Xylene	0.73	0.12	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
m,p-Xylene	1.8	0.24	mg/kg dry	SW-846 8260C	5/12/16	20:11	KF
Surrogates			RANGE				
Dibromofluoromethane	89		70-130%	SW-846 8260C	5/12/16	20:11	KF
Toluene-d8	87		70-130%	SW-846 8260C	5/12/16	20:11	KF
4-Bromofluorobenzene	86		70-130%	SW-846 8260C	5/12/16	20:11	KF
1,2 Dichloroethane-d4	86		70-130%	SW-846 8260C	5/12/16	20:11	KF
Semi-Volatile Organic Comp.							
Acenaphthene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Acenaphthylene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Anthracene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Benzidine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Benzo(a)anthracene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Benzo(b)fluoranthene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Benzo(k)fluoranthene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Benzo(g,h,i)perylene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Benzo(a)pyrene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Bis(2-chloroethyl)ether	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Bis(2-Chloroethoxy)methane	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Bis(2-Chloroisopropyl)Ether	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Bis(2-ethylhexyl)phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
4-Bromophenyl phenyl ether	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Butylbenzyl phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Chloronaphthalene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
4-Chlorophenyl phenyl ether	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Chrysene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Dibenzo(a,h)anthracene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Di-n-butyl phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
1,2-Dichlorobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
1,3-Dichlorobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
1,4-Dichlorobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
3,3'-Dichlorobenzidine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Diethyl phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Dimethyl phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4-Dinitrotoluene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,6-Dinitrotoluene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Di-n-octyl phthalate	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
1,2-Diphenylhydrazine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Fluoranthene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Fluorene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Hexachlorobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Hexachlorobutadiene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Hexachlorocyclopentadiene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Hexachloroethane	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Indeno(1,2,3-cd)pyrene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Isophorone	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Methylnaphthalene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Naphthalene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Nitrobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
N-nitrosodimethylamine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
N-nitrosodiphenylamine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16
Work Order #: 1605-10867
COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
N-nitrosodi-n-propylamine	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Phenanthrene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Pyrene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
1,2,4-Trichlorobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
4-Chloro-3-methylphenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Chlorophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4-Dichlorophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4-Dimethylphenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Methyl-4,6-dinitrophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4-Dinitrophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Nitrophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
4-Nitrophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Pentachlorophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Phenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4,5-Trichlorophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2,4,6-Trichlorophenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
4-Chloroaniline	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Dibenzofuran	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
2-Methyl Phenol	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
3 & 4-Methylphenols	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Aniline	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Acetophenone	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Azobenzene	<0.37	0.37	mg/kg dry	SW-846 8270D	5/16/16	13:57	JEB
Surrogates			RANGE				
Phenol-d5	67		30-130%	SW-846 8270D	5/16/16	13:57	JEB
2-Fluorophenol	69		30-130%	SW-846 8270D	5/16/16	13:57	JEB
2,4,6-Tribromophenol	86		30-130%	SW-846 8270D	5/16/16	13:57	JEB
Nitrobenzene-d5	69		30-130%	SW-846 8270D	5/16/16	13:57	JEB
2-Fluorobiphenyl	67		30-130%	SW-846 8270D	5/16/16	13:57	JEB
P-Terphenyl-d14	67		30-130%	SW-846 8270D	5/16/16	13:57	JEB
Semi Extraction Date				SW-846 3546	5/12/16	14:35	CCS
Total Metals							
Arsenic	<2.7	2.7	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
Barium	16	0.54	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
Cadmium	1.5	0.27	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
Chromium	9.2	1.6	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
Lead	9.6	2.2	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

EST/TG2

Date Received: 5/12/16

Work Order #: 1605-10867

COLBEA - PEMBROKE

Sample # 002
SAMPLE DESCRIPTION: DISPENSER DISPOSAL-2
SAMPLE TYPE: COMPOSITE **SAMPLE DATE/TIME:** 5/12/2016

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED		ANALYST
Mercury	<0.11	0.11	mg/kg dry	SW-846 7471B	5/16/16	12:44	JRW
Selenium	<5.4	5.4	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
Silver	<1.1	1.1	mg/kg dry	SW-846 6010C	5/16/16	12:36	JRW
ICP Digestion				SW-846 3050B	5/13/16	22:12	RBR
Mercury Digestion				SW-846 7471B	5/16/16	12:04	CRC
Extraction Date				SW-846 5035	5/12/16	0:00	*CS

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
PCB			
Aroclor-1016	mg/kg dry	<0.1	5/16/2016
Aroclor-1221	mg/kg dry	<0.1	5/16/2016
Aroclor-1232	mg/kg dry	<0.1	5/16/2016
Aroclor-1242	mg/kg dry	<0.1	5/16/2016
Aroclor-1248	mg/kg dry	<0.1	5/16/2016
Aroclor-1254	mg/kg dry	<0.1	5/16/2016
Aroclor-1262	mg/kg dry	<0.1	5/16/2016
Aroclor-1268	mg/kg dry	<0.1	5/16/2016
Aroclor-1260	mg/kg dry	<0.1	5/16/2016
Surrogate	**RANGE**		5/16/2016
Tetrachloro-m-xylene (TCMX)	30-150%	83	5/16/2016
Decachlorobiphenyl	30-150%	83	5/16/2016
Total Petroleum Hydrocarbons by Method 8100			
TPH GC/FID	mg/kg dry	<10	5/13/2016
Surrogate	**RANGE**		5/13/2016
2-Fluorobiphenyl	40-140%	76	5/13/2016
Volatile Organics by Method 8260			
Acetone	mg/kg dry	<1.0	5/12/2016
Tertiary Amyl Methyl Ether	mg/kg dry	<0.10	5/12/2016
Benzene	mg/kg dry	<0.10	5/12/2016
Bromobenzene	mg/kg dry	<0.10	5/12/2016
Bromochloromethane	mg/kg dry	<0.10	5/12/2016
Bromodichloromethane	mg/kg dry	<0.10	5/12/2016
Bromoform	mg/kg dry	<0.10	5/12/2016
Bromomethane	mg/kg dry	<0.10	5/12/2016
Sec-butylbenzene	mg/kg dry	<0.10	5/12/2016
n-Butylbenzene	mg/kg dry	<0.10	5/12/2016
tert-Butylbenzene	mg/kg dry	<0.10	5/12/2016
Carbon Disulfide	mg/kg dry	<0.25	5/12/2016
Carbon Tetrachloride	mg/kg dry	<0.10	5/12/2016
Chlorobenzene	mg/kg dry	<0.10	5/12/2016
Dibromochloromethane	mg/kg dry	<0.10	5/12/2016
Chloroethane	mg/kg dry	<0.10	5/12/2016
Chloroform	mg/kg dry	<0.10	5/12/2016
Chloromethane	mg/kg dry	<0.10	5/12/2016
2-Chlorotoluene	mg/kg dry	<0.10	5/12/2016
4-Chlorotoluene	mg/kg dry	<0.10	5/12/2016
1,2-Dibromo-3-Chloropropane	mg/kg dry	<0.10	5/12/2016
1,2-Dibromoethane(EDB)	mg/kg dry	<0.10	5/12/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Volatile Organics by Method 8260 (cont'd)			
Dibromomethane	mg/kg dry	<0.10	5/12/2016
1,3-Dichlorobenzene	mg/kg dry	<0.10	5/12/2016
1,2-Dichlorobenzene	mg/kg dry	<0.10	5/12/2016
1,4-Dichlorobenzene	mg/kg dry	<0.10	5/12/2016
n-Propylbenzene	mg/kg dry	<0.10	5/12/2016
Dichlorodifluoromethane	mg/kg dry	<0.10	5/12/2016
1,1-Dichloroethane	mg/kg dry	<0.10	5/12/2016
1,2-Dichloroethane	mg/kg dry	<0.10	5/12/2016
1,1-Dichloroethene	mg/kg dry	<0.10	5/12/2016
cis-1,2-Dichloroethene	mg/kg dry	<0.10	5/12/2016
trans-1,2-Dichloroethylene	mg/kg dry	<0.10	5/12/2016
1,2-Dichloropropane	mg/kg dry	<0.10	5/12/2016
1,3-Dichloropropane	mg/kg dry	<0.10	5/12/2016
2,2-Dichloropropane	mg/kg dry	<0.10	5/12/2016
1,1-Dichloropropene	mg/kg dry	<0.10	5/12/2016
cis-1,3-Dichloropropene	mg/kg dry	<0.10	5/12/2016
trans-1,3-Dichloropropylene	mg/kg dry	<0.10	5/12/2016
Diethyl ether	mg/kg dry	<1.0	5/12/2016
Diisopropyl ether (DIPE)	mg/kg dry	<0.10	5/12/2016
1,4-Dioxane	mg/kg dry	<5.0	5/12/2016
Ethyl Tertiary Butyl Ether	mg/kg dry	<0.10	5/12/2016
Ethylbenzene	mg/kg dry	<0.10	5/12/2016
Hexachlorobutadiene	mg/kg dry	<0.10	5/12/2016
2-Hexanone	mg/kg dry	<1.0	5/12/2016
Isopropylbenzene	mg/kg dry	<0.10	5/12/2016
p-Isopropyltoluene	mg/kg dry	<0.10	5/12/2016
2-Butanone(MEK)	mg/kg dry	<1.0	5/12/2016
4-Methyl-2-pentanone(MIBK)	mg/kg dry	<1.0	5/12/2016
MTBE	mg/kg dry	<0.10	5/12/2016
Methylene Chloride	mg/kg dry	<0.25	5/12/2016
Naphthalene	mg/kg dry	<0.10	5/12/2016
1,1,2-Trichloroethane	mg/kg dry	<0.10	5/12/2016
Styrene	mg/kg dry	<0.10	5/12/2016
1,1,1,2-Tetrachloroethane	mg/kg dry	<0.10	5/12/2016
1,1,2,2-Tetrachloroethane	mg/kg dry	<0.10	5/12/2016
Tetrachloroethene	mg/kg dry	<0.10	5/12/2016
Tetrahydrofuran	mg/kg dry	<1.0	5/12/2016
Toluene	mg/kg dry	<0.10	5/12/2016
1,2,4-Trichlorobenzene	mg/kg dry	<0.10	5/12/2016
1,2,3-Trichlorobenzene	mg/kg dry	<0.10	5/12/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Volatile Organics by Method 8260 (cont'd)			
1,1,1-Trichloroethane	mg/kg dry	<0.10	5/12/2016
Trichloroethene	mg/kg dry	<0.10	5/12/2016
Trichlorofluoromethane	mg/kg dry	<0.10	5/12/2016
1,2,3-Trichloropropane	mg/kg dry	<0.10	5/12/2016
1,2,4-Trimethylbenzene	mg/kg dry	<0.10	5/12/2016
1,3,5-Trimethylbenzene	mg/kg dry	<0.10	5/12/2016
Vinyl Chloride	mg/kg dry	<0.10	5/12/2016
o-Xylene	mg/kg dry	<0.10	5/12/2016
m,p-Xylene	mg/kg dry	<0.20	5/12/2016
Surrogates	**RANGE**		5/12/2016
Toluene-d8	70-130%	78	5/12/2016
Dibromofluoromethane	70-130%	81	5/12/2016
1,2 Dichloroethane-d4	70-130%	79	5/12/2016
4-Bromofluorobenzene	70-130%	76	5/12/2016
Semi-Volatile Organics by Method 8270			
Acenaphthene	mg/kg dry	<0.33	5/16/2016
Acenaphthylene	mg/kg dry	<0.33	5/16/2016
Anthracene	mg/kg dry	<0.33	5/16/2016
Benzidine	mg/kg dry	<0.33	5/16/2016
Benzo(a)anthracene	mg/kg dry	<0.33	5/16/2016
Benzo(b)fluoranthene	mg/kg dry	<0.33	5/16/2016
Benzo(k)fluoranthene	mg/kg dry	<0.33	5/16/2016
Benzo(g,h,i)perylene	mg/kg dry	<0.33	5/16/2016
Benzo(a)pyrene	mg/kg dry	<0.33	5/16/2016
Bis(2-chloroethyl)ether	mg/kg dry	<0.33	5/16/2016
Bis(2-Chloroethoxy)methane	mg/kg dry	<0.33	5/16/2016
Bis(2-Chloroisopropyl)Ether	mg/kg dry	<0.33	5/16/2016
Bis(2-ethylhexyl)phthalate	mg/kg dry	<0.33	5/16/2016
4-Bromophenyl phenyl ether	mg/kg dry	<0.33	5/16/2016
Butylbenzyl phthalate	mg/kg dry	<0.33	5/16/2016
2-Chloronaphthalene	mg/kg dry	<0.33	5/16/2016
4-Chlorophenyl phenyl ether	mg/kg dry	<0.33	5/16/2016
Chrysene	mg/kg dry	<0.33	5/16/2016
Dibenzo(a,h)anthracene	mg/kg dry	<0.33	5/16/2016
Di-n-butyl phthalate	mg/kg dry	<0.33	5/16/2016
1,2-Dichlorobenzene	mg/kg dry	<0.33	5/16/2016
1,3-Dichlorobenzene	mg/kg dry	<0.33	5/16/2016
1,4-Dichlorobenzene	mg/kg dry	<0.33	5/16/2016
3,3'-Dichlorobenzidine	mg/kg dry	<0.33	5/16/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Semi-Volatile Organics by Method 8270 (cont'd)			
Diethyl phthalate	mg/kg dry	<0.33	5/16/2016
Dimethyl phthalate	mg/kg dry	<0.33	5/16/2016
2,4-Dinitrotoluene	mg/kg dry	<0.33	5/16/2016
2,6-Dinitrotoluene	mg/kg dry	<0.33	5/16/2016
Di-n-octyl phthalate	mg/kg dry	<0.33	5/16/2016
1,2-Diphenylhydrazine	mg/kg dry	<0.33	5/16/2016
Fluoranthene	mg/kg dry	<0.33	5/16/2016
Fluorene	mg/kg dry	<0.33	5/16/2016
Hexachlorobenzene	mg/kg dry	<0.33	5/16/2016
Hexachlorobutadiene	mg/kg dry	<0.33	5/16/2016
Hexachlorocyclopentadiene	mg/kg dry	<0.33	5/16/2016
Hexachloroethane	mg/kg dry	<0.33	5/16/2016
Indeno(1,2,3-cd)pyrene	mg/kg dry	<0.33	5/16/2016
Isophorone	mg/kg dry	<0.33	5/16/2016
2-Methylnaphthalene	mg/kg dry	<0.33	5/16/2016
Naphthalene	mg/kg dry	<0.33	5/16/2016
Nitrobenzene	mg/kg dry	<0.33	5/16/2016
N-nitrosodimethylamine	mg/kg dry	<0.33	5/16/2016
N-nitrosodiphenylamine	mg/kg dry	<0.33	5/16/2016
N-nitrosodi-n-propylamine	mg/kg dry	<0.33	5/16/2016
Phenanthrene	mg/kg dry	<0.33	5/16/2016
Pyrene	mg/kg dry	<0.33	5/16/2016
1,2,4-Trichlorobenzene	mg/kg dry	<0.33	5/16/2016
4-Chloro-3-methylphenol	mg/kg dry	<0.33	5/16/2016
2-Chlorophenol	mg/kg dry	<0.33	5/16/2016
2,4-Dichlorophenol	mg/kg dry	<0.33	5/16/2016
2,4-Dimethylphenol	mg/kg dry	<0.33	5/16/2016
2-Methyl-4,6-dinitrophenol	mg/kg dry	<0.33	5/16/2016
2,4-Dinitrophenol	mg/kg dry	<0.33	5/16/2016
2-Nitrophenol	mg/kg dry	<0.33	5/16/2016
4-Nitrophenol	mg/kg dry	<0.33	5/16/2016
Pentachlorophenol	mg/kg dry	<0.33	5/16/2016
Phenol	mg/kg dry	<0.33	5/16/2016
2,4,6-Trichlorophenol	mg/kg dry	<0.33	5/16/2016
2,4,5-Trichlorophenol	mg/kg dry	<0.33	5/16/2016
Dibenzofuran	mg/kg dry	<0.33	5/16/2016
2-Methyl Phenol	mg/kg dry	<0.33	5/16/2016
3 & 4-Methylphenols	mg/kg dry	<0.33	5/16/2016
Aniline	mg/kg dry	<0.33	5/16/2016
Acetophenone	mg/kg dry	<0.33	5/16/2016

QA/QC Report

Client: EST/TG2
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-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Semi-Volatile Organics by Method 8270 (cont'd)			
Azobenzene	mg/kg dry	<0.33	5/16/2016
4-Chloroaniline	mg/kg dry	<0.33	5/16/2016
Surrogates	**RANGE**		5/16/2016
Phenol-d5	30-130%	55	5/16/2016
2-Fluorophenol	30-130%	55	5/16/2016
2,4,6-Tribromophenol	30-130%	80	5/16/2016
Nitrobenzene-d5	30-130%	56	5/16/2016
2-Fluorobiphenyl	30-130%	58	5/16/2016
P-Terphenyl-d14	30-130%	79	5/16/2016
Total Metals			
Arsenic	mg/kg dry	<2.5	5/16/2016
Barium	mg/kg dry	<0.50	5/16/2016
Cadmium	mg/kg dry	<0.25	5/16/2016
Chromium	mg/kg dry	<1.5	5/16/2016
Lead	mg/kg dry	<2.0	5/16/2016
Mercury	mg/kg dry	<0.093	5/16/2016
Selenium	mg/kg dry	<5.0	5/16/2016
Silver	mg/kg dry	<0.99	5/16/2016
Reactivity			
Sulfide Reactivity	mg/kg	<2.5	5/16/2016

-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Total Petroleum Hydrocarbons by Method 8100 - Solids								
TPH GC/FID		66.7	47.5	71	48.7	73	3	5/13/2016
Surrogate								5/13/2016
2-Fluorobiphenyl			78		79			5/13/2016
Volatile Organics by Method 8260 - Solids								
Acetone		25	25	100	24	96	4	5/12/2016
Tertiary Amyl Methyl Ether		2.5	2.5	100	2.5	100	0	5/12/2016
Benzene		2.5	2.6	104	2.5	100	4	5/12/2016
Bromobenzene		2.5	2.6	104	2.6	104	0	5/12/2016
Bromochloromethane		2.5	2.5	100	2.5	100	0	5/12/2016
Bromodichloromethane		2.5	2.5	100	2.5	100	0	5/12/2016
Bromoform		2.5	2.5	100	2.5	100	0	5/12/2016
Bromomethane		2.5	2.5	100	2.6	104	4	5/12/2016
Sec-butylbenzene		2.5	2.6	104	2.6	104	0	5/12/2016
n-Butylbenzene		2.5	2.8	112	2.8	112	0	5/12/2016
tert-Butylbenzene		2.5	2.6	104	2.6	104	0	5/12/2016
Carbon Disulfide		2.5	2.4	96	2.4	96	0	5/12/2016
Carbon Tetrachloride		2.5	2.4	96	2.4	96	0	5/12/2016
Chlorobenzene		2.5	2.6	104	2.5	100	4	5/12/2016
Dibromochloromethane		2.5	2.4	96	2.5	100	4	5/12/2016
Chloroethane		2.5	2.6	104	2.7	108	4	5/12/2016
Chloroform		2.5	2.4	96	2.4	96	0	5/12/2016
Chloromethane		2.5	1.9	76	1.9	76	0	5/12/2016
2-Chlorotoluene		2.5	2.8	112	2.8	112	0	5/12/2016
4-Chlorotoluene		2.5	2.6	104	2.6	104	0	5/12/2016
1,2-Dibromo-3-Chloropropane		2.5	2.8	112	2.9	116	4	5/12/2016
1,2-Dibromoethane(EDB)		2.5	2.5	100	2.5	100	0	5/12/2016
Dibromomethane		2.5	2.4	96	2.4	96	0	5/12/2016
1,3-Dichlorobenzene		2.5	2.6	104	2.6	104	0	5/12/2016
1,2-Dichlorobenzene		2.5	2.6	104	2.6	104	0	5/12/2016
1,4-Dichlorobenzene		2.5	2.6	104	2.6	104	0	5/12/2016
n-Propylbenzene		2.5	2.7	108	2.7	108	0	5/12/2016
Dichlorodifluoromethane		2.5	1.4	56	1.4	56	0	5/12/2016
1,1-Dichloroethane		2.5	2.6	104	2.5	100	4	5/12/2016
1,2-Dichloroethane		2.5	2.5	100	2.5	100	0	5/12/2016
1,1-Dichloroethene		2.5	2.3	92	2.3	92	0	5/12/2016
cis-1,2-Dichloroethene		2.5	2.4	96	2.4	96	0	5/12/2016
trans-1,2-Dichloroethylene		2.5	2.4	96	2.3	92	4	5/12/2016
1,2-Dichloropropane		2.5	2.5	100	2.6	104	4	5/12/2016
1,3-Dichloropropane		2.5	2.6	104	2.6	104	0	5/12/2016
2,2-Dichloropropane		2.5	2.8	112	2.7	108	4	5/12/2016
1,1-Dichloropropene		2.5	2.6	104	2.5	100	4	5/12/2016
cis-1,3-Dichloropropene		2.5	2.7	108	2.6	104	4	5/12/2016
trans-1,3-Dichloropropylene		2.5	2.5	100	2.6	104	4	5/12/2016
Diethyl ether		25	23	92	23	92	0	5/12/2016
Diisopropyl ether (DIPE)		2.5	2.5	100	2.6	104	4	5/12/2016
1,4-Dioxane		50	43	86	45	90	5	5/12/2016
Ethyl Tertiary Butyl Ether		2.5	2.6	104	2.6	104	0	5/12/2016
Ethylbenzene		2.5	2.7	108	2.6	104	4	5/12/2016
Hexachlorobutadiene		2.5	2.8	112	2.9	116	4	5/12/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
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-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Volatile Organics by Method 8260 - Solids (cont'd)								
2-Hexanone		25	26	104	27	108	4	5/12/2016
Isopropylbenzene		2.5	2.7	108	2.7	108	0	5/12/2016
p-Isopropyltoluene		2.5	2.6	104	2.5	100	4	5/12/2016
2-Butanone(MEK)		25	25	100	26	104	4	5/12/2016
4-Methyl-2-pentanone(MIBK)		25	26	104	27	108	4	5/12/2016
MTBE		2.5	2.5	100	2.5	100	0	5/12/2016
Methylene Chloride		2.5	2.4	96	2.4	96	0	5/12/2016
Naphthalene		2.5	2.6	104	2.6	104	0	5/12/2016
1,1,2-Trichloroethane		2.5	2.6	104	2.6	104	0	5/12/2016
Styrene		2.5	2.6	104	2.6	104	0	5/12/2016
1,1,1,2-Tetrachloroethane		2.5	2.6	104	2.6	104	0	5/12/2016
1,1,2,2-Tetrachloroethane		2.5	2.7	108	2.7	108	0	5/12/2016
Tetrachloroethene		2.5	2.6	104	2.5	100	4	5/12/2016
Tetrahydrofuran		25	26	104	26	104	0	5/12/2016
Toluene		2.5	2.6	104	2.5	100	4	5/12/2016
1,2,4-Trichlorobenzene		2.5	2.5	100	2.6	104	4	5/12/2016
1,2,3-Trichlorobenzene		2.5	2.5	100	2.5	100	0	5/12/2016
1,1,1-Trichloroethane		2.5	2.5	100	2.5	100	0	5/12/2016
Trichloroethene		2.5	2.5	100	2.5	100	0	5/12/2016
Trichlorofluoromethane		2.5	2.3	92	2.2	88	4	5/12/2016
1,2,3-Trichloropropane		2.5	2.6	104	2.6	104	0	5/12/2016
1,2,4-Trimethylbenzene		2.5	2.6	104	2.6	104	0	5/12/2016
1,3,5-Trimethylbenzene		2.5	2.7	108	2.6	104	4	5/12/2016
Vinyl Chloride		2.5	2.1	84	2.0	80	5	5/12/2016
o-Xylene		2.5	2.7	108	2.6	104	4	5/12/2016
m,p-Xylene		5.0	5.3	106	5.2	104	2	5/12/2016
Surrogates								
Toluene-d8			97		97			
Dibromofluoromethane			95		95			
1,2 Dichloroethane-d4			96		96			
4-Bromofluorobenzene			102		102			
Flashpoint		80	80	100				5/13/2016
PCB - Solids								
Aroclor-1016		0.33	0.295	89	0.303	92	3	5/16/2016
Aroclor-1260		0.33	0.247	75	0.260	79	5	5/16/2016
Surrogate								
Tetrachloro-m-xylene (TCMX)			89		90			
Decachlorobiphenyl			86		89			
Semi-Volatile Organics by Method 8270 - Solids								
Acenaphthene		3.3	2.9	88	2.7	82	7	5/16/2016
Acenaphthylene		3.3	3.2	97	3.1	94	3	5/16/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Semi-Volatile Organics by Method 8270 - Solids (cont'd)								
Anthracene		3.3	3.2	97	3.1	94	3	5/16/2016
Benzidine		3.3	2.4	73	2.4	73	0	5/16/2016
Benzo(a)anthracene		3.3	3.1	94	3.0	91	3	5/16/2016
Benzo(b)fluoranthene		3.3	3.0	91	3.1	94	3	5/16/2016
Benzo(k)fluoranthene		3.3	3.1	94	3.0	91	3	5/16/2016
Benzo(g,h,i)perylene		3.3	3.1	94	3.0	91	3	5/16/2016
Benzo(a)pyrene		3.3	3.0	91	2.9	88	3	5/16/2016
Bis(2-chloroethyl)ether		3.3	2.7	82	2.5	76	8	5/16/2016
Bis(2-Chloroethoxy)methane		3.3	2.8	85	2.5	76	11	5/16/2016
Bis(2-Chloroisopropyl)Ether		3.3	2.6	79	2.3	70	12	5/16/2016
Bis(2-ethylhexyl)phthalate		3.3	3.1	94	3.0	91	3	5/16/2016
4-Bromophenyl phenyl ether		3.3	3.0	91	2.9	88	3	5/16/2016
Butylbenzyl phthalate		3.3	3.0	91	3.0	91	0	5/16/2016
2-Chloronaphthalene		3.3	2.9	88	2.8	85	4	5/16/2016
4-Chlorophenyl phenyl ether		3.3	2.9	88	2.8	85	4	5/16/2016
Chrysene		3.3	3.2	97	3.1	94	3	5/16/2016
Dibenzo(a,h)anthracene		3.3	3.1	94	3.0	91	3	5/16/2016
Di-n-butyl phthalate		3.3	3.1	94	3.0	91	3	5/16/2016
1,2-Dichlorobenzene		3.3	2.8	85	2.4	73	15	5/16/2016
1,3-Dichlorobenzene		3.3	2.6	79	2.3	70	12	5/16/2016
1,4-Dichlorobenzene		3.3	2.7	82	2.3	70	16	5/16/2016
3,3'-Dichlorobenzidine		3.3	2.8	85	2.7	82	4	5/16/2016
Diethyl phthalate		3.3	3.0	91	3.0	91	0	5/16/2016
Dimethyl phthalate		3.3	3.1	94	3.0	91	3	5/16/2016
2,4-Dinitrotoluene		3.3	3.7	112	3.6	109	3	5/16/2016
2,6-Dinitrotoluene		3.3	3.7	112	3.6	109	3	5/16/2016
Di-n-octyl phthalate		3.3	2.7	82	2.6	79	4	5/16/2016
1,2-Diphenylhydrazine		3.3	2.8	85	2.8	85	0	5/16/2016
Fluoranthene		3.3	3.0	91	3.0	91	0	5/16/2016
Fluorene		3.3	3.0	91	2.9	88	3	5/16/2016
Hexachlorobenzene		3.3	3.1	94	3.0	91	3	5/16/2016
Hexachlorobutadiene		3.3	2.9	88	2.6	79	11	5/16/2016
Hexachlorocyclopentadiene		3.3	3.2	97	3.0	91	6	5/16/2016
Hexachloroethane		3.3	2.6	79	2.3	70	12	5/16/2016
Indeno(1,2,3-cd)pyrene		3.3	3.2	97	3.1	94	3	5/16/2016
Isophorone		3.3	2.8	85	2.7	82	4	5/16/2016
2-Methylnaphthalene		3.3	3.0	91	2.8	85	7	5/16/2016
Naphthalene		3.3	2.8	85	2.6	79	7	5/16/2016
Nitrobenzene		3.3	3.0	91	2.7	82	11	5/16/2016
N-nitrosodimethylamine		3.3	2.5	76	2.2	67	13	5/16/2016
N-nitrosodiphenylamine		3.3	3.0	91	3.0	91	0	5/16/2016
N-nitrosodi-n-propylamine		3.3	2.7	82	2.5	76	8	5/16/2016

QA/QC Report

Client: EST/TG2
WO #: 1605-10867
Date: 5/16/2016

-LCS/LCS Duplicate Data Results-

Parameter	CRM Acceptance Limits	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Semi-Volatile Organics by Method 8270 - Solids (cont'd)								
Phenanthrene		3.3	3.1	94	3.0	91	3	5/16/2016
Pyrene		3.3	3.1	94	3.0	91	3	5/16/2016
1,2,4-Trichlorobenzene		3.3	2.8	85	2.6	79	7	5/16/2016
4-Chloro-3-methylphenol		3.3	3.0	91	2.8	85	7	5/16/2016
2-Chlorophenol		3.3	2.9	88	2.7	82	7	5/16/2016
2,4-Dichlorophenol		3.3	3.1	94	2.9	88	7	5/16/2016
2,4-Dimethylphenol		3.3	2.9	88	2.8	85	4	5/16/2016
2-Methyl-4,6-dinitrophenol		3.3	1.3	39	0.87	26	40	5/16/2016
2,4-Dinitrophenol		3.3	0.49	15	0.33	10	39	5/16/2016
2-Nitrophenol		3.3	3.5	106	3.2	97	9	5/16/2016
4-Nitrophenol		3.3	3.6	109	3.4	103	6	5/16/2016
Pentachlorophenol		3.3	2.8	85	2.8	85	0	5/16/2016
Phenol		3.3	3.0	91	2.7	82	11	5/16/2016
2,4,6-Trichlorophenol		3.3	3.1	94	3.0	91	3	5/16/2016
2,4,5-Trichlorophenol		3.3	3.2	97	3.0	91	6	5/16/2016
Dibenzofuran		3.3	3.0	91	2.9	88	3	5/16/2016
2-Methyl Phenol		3.3	2.9	88	2.7	82	7	5/16/2016
3 & 4-Methylphenols		3.3	2.7	82	2.5	76	8	5/16/2016
Aniline		3.3	2.6	79	2.4	73	8	5/16/2016
Acetophenone		3.3	2.8	85	2.5	76	11	5/16/2016
Azobenzene		3.3	2.8	85	2.8	85	0	5/16/2016
4-Chloroaniline		3.3	2.8	85	2.7	82	4	5/16/2016
Surrogates								
Phenol-d5			87		79			
2-Fluorophenol			89		78			
2,4,6-Tribromophenol			110		105			
Nitrobenzene-d5			89		78			
2-Fluorobiphenyl			85		80			
P-Terphenyl-d14			83		78			
Total Metals - Solids								
Arsenic	71-129%	161	160	99	170	106	6	5/16/2016
Barium	73-126%	351	360	103	360	103	0	5/16/2016
Cadmium	73-127%	190	200	105	200	105	0	5/16/2016
Chromium	70-130%	87.9	96	109	98	111	2	5/16/2016
Lead	70-130%	138	150	109	150	109	0	5/16/2016
Selenium	66-134%	305	290	95	300	98	3	5/16/2016
Silver	42-158%	58.0	56	97	58	100	4	5/16/2016
Mercury	52-149%	15.9	18	113	18	113	0	5/16/2016
Reactivity								
Sulfide Reactivity		9.96	8.06	81	8.26	84	3	5/16/2016

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CHAIN OF CUSTODY RECORD

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Hudson, MA 01749-1331
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09-21-16

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	RCRA-8	TPH	SVOCs	PCBs	Cl/Reactivity	Flashpoint	pH	Conductivity	VOCs 8260
5/12/16	1115	Dispenser Disposal-1	C	5	M	S	X	X	X	X	X	X	X	X	X
5/12/16	1310	Dispenser Disposal-2	C	5	M	S	X	X	X	X	X	X	X	X	X

Client Information

Company Name: EST/TGS
Address: 51 Fremont St.
City / State / Zip: Needham, MA
Telephone: 508-298-8686 Fax:
Contact Person: Eric Simpson

Project Information

Project Name: Colbea Pembroke
P.O. Number: Project Number:
Report To: E. Simpson Phone: Fax
Sampled By: ES
Quote No:
Email report to these addresses: esimpson@tgsolutions.com

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	5/12/16	1653	[illegible]	5-12-16	16:53

Turn Around Time

- [ ] Normal
- [ ] EMAIL Report
- 5 Business days. Possible surcharge
- [x] Rush – Date Due: 48hrs.

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3

MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt 2.7 °C

Lab Use Only

- [ ] Sample Pick-Up Only
- [ ] RIAL sampled; attach field hours
- [x] Shipped on ice

Workorder No: 1605-10867

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SB=$NaHSO_4$, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____